

**ECONOMIC COMMISSION FOR EUROPE**

Inland Transport Committee

**European Agreement concerning the  
International Carriage  
of Dangerous Goods  
by Inland Waterways  
(ADN)**

**including the Annexed Regulations, applicable as from  
28 February 2009**

**Volume II**



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# **ANNEXED REGULATIONS (continued)**



# **PART 2**

## **Classification**





## CHAPTER 2.1

### GENERAL PROVISIONS

#### 2.1.1 Introduction

2.1.1.1 The classes of dangerous goods according to ADN are the following:

|           |  |
|-----------|--|
| Class 1   | Explosive substances and articles  |
| Class 2   | Gases  |
| Class 3   | Flammable liquids  |
| Class 4.1 | Flammable solids, self-reactive substances and solid desensitized explosives |
| Class 4.2 | Substances liable to spontaneous combustion                                  |
| Class 4.3 | Substances which, in contact with water, emit flammable gases                |
| Class 5.1 | Oxidizing substances   |
| Class 5.2 | Organic peroxides  |
| Class 6.1 | Toxic substances   |
| Class 6.2 | Infectious substances  |
| Class 7   | Radioactive material   |
| Class 8   | Corrosive substances   |
| Class 9   | Miscellaneous dangerous substances and articles                              |

2.1.1.2 Each entry in the different classes has been assigned a UN number. The following types of entries are used:

A. Single entries for well defined substances or articles including entries for substances covering several isomers, e.g.:

|             |                        |
|-------------|------------------------|
| UN No. 1090 | ACETONE                |
| UN No. 1104 | AMYL ACETATES          |
| UN No. 1194 | ETHYL NITRITE SOLUTION |

B. Generic entries for a well defined group of substances or articles, which are not n.o.s. entries, e.g.:

|             |                                   |
|-------------|-----------------------------------|
| UN No. 1133 | ADHESIVES                         |
| UN No. 1266 | PERFUMERY PRODUCTS                |
| UN No. 2757 | CARBAMATE PESTICIDE, SOLID, TOXIC |
| UN No. 3101 | ORGANIC PEROXIDE TYPE B, LIQUID   |

C. Specific n.o.s. entries covering a group of substances or articles of a particular chemical or technical nature, not otherwise specified, e.g.:

|             |                             |
|-------------|-----------------------------|
| UN No. 1477 | NITRATES, INORGANIC, N.O.S. |
| UN No. 1987 | ALCOHOLS, N.O.S.            |

D. General n.o.s. entries covering a group of substances or articles having one or more dangerous properties, not otherwise specified, e.g.:

|             |                                  |
|-------------|----------------------------------|
| UN No. 1325 | FLAMMABLE SOLID, ORGANIC, N.O.S. |
| UN No. 1993 | FLAMMABLE LIQUID, N.O.S.         |

The entries defined under B., C. and D. are defined as collective entries.

2.1.1.3 For packing purposes, substances other than those of Classes 1, 2, 5.2, 6.2 and 7, and other than self-reactive substances of Class 4.1 are assigned to packing groups in accordance with the degree of danger they present:

Packing group I: Substances presenting high danger;  
Packing group II: Substances presenting medium danger;  
Packing group III: Substances presenting low danger.

The packing group(s) to which a substance is assigned is (are) indicated in Table A of Chapter 3.2.

2.1.1.4 For the purpose of carriage in tank vessels, some substances may be further subdivided.

## **2.1.2 Principles of classification**

2.1.2.1 The dangerous goods covered by the heading of a class are defined on the basis of their properties according to sub-section 2.2.x.1 of the relevant class. Assignment of dangerous goods to a class and a packing group is made according to the criteria mentioned in the same sub-section 2.2.x.1. Assignment of one or several subsidiary risk(s) to a dangerous substance or article is made according to the criteria of the class or classes corresponding to those risks, as mentioned in the appropriate sub-section(s) 2.2.x.1.

2.1.2.2 All dangerous goods entries are listed in Table A of Chapter 3.2 in the numerical order of their UN Number. This table contains relevant information on the goods listed, such as name, class, packing group(s), label(s) to be affixed, packing and carriage provisions<sup>a</sup>.

2.1.2.3 Dangerous goods which are listed or defined in sub-section 2.2.x.2 of each class are not to be accepted for carriage.

2.1.2.4 Goods not mentioned by name, i.e. goods not listed as single entries in Table A of Chapter 3.2 and not listed or defined in one of the above-mentioned sub-sections 2.2.x.2 shall be assigned to the relevant class in accordance with the procedure of section 2.1.3. In addition, the subsidiary risk (if any) and the packing group (if any) shall be determined. Once the class, subsidiary risk (if any) and packing group (if any) have been established the relevant UN number shall be determined. The decision trees in sub-sections 2.2.x.3 (list of collective entries) at the end of each class indicate the relevant parameters for selecting the relevant collective entry (UN number). In all cases the most specific collective entry covering the properties of the substance or article shall be selected, according to the hierarchy indicated in 2.1.1.2 by the letters B, C and D respectively. If the substance or article cannot be classified under entries of type B or C according to 2.1.1.2, then, and only then shall it be classified under an entry of type D.

2.1.2.5 On the basis of the test procedures of Chapter 2.3 and the criteria set out in sub-sections 2.2.x.1 of the various classes when it is so specified, it may be determined that a substance, solution or mixture of a certain class, mentioned by name in Table A of Chapter 3.2, does not meet the criteria of that class. In such a case, the substance, solution or mixture is deemed not to belong to that class.

2.1.2.6 For the purposes of classification, substances with a melting point or initial melting point of 20 °C or lower at a pressure of 101.3 kPa shall be considered to be liquids. A viscous substance for which a specific melting point cannot be determined shall be subjected to the ASTM D 4359-90 test or to the test for determining fluidity (penetrometer test) prescribed in 2.3.4.

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<sup>a</sup> **Note by the secretariat:** An alphabetic list of these entries has been prepared by the secretariat and is reproduced in Table B of Chapter 3.2. This table is not an official part of the ADN.

**2.1.3 Classification of substances, including solutions and mixtures (such as preparations and wastes), not mentioned by name**

2.1.3.1 Substances including solutions and mixtures not mentioned by name shall be classified according to their degree of danger on the basis of the criteria mentioned in sub-section 2.2.x.1 of the various classes. The danger(s) presented by a substance shall be determined on the basis of its physical and chemical characteristics and physiological properties. Such characteristics and properties shall also be taken into account when such experience leads to a more stringent assignment.

2.1.3.2 A substance not mentioned by name in Table A of Chapter 3.2 presenting a single hazard shall be classified in the relevant class under a collective entry listed in sub-section 2.2.x.3 of that class.

2.1.3.3 A solution or mixture containing only one dangerous substance mentioned by name in Table A of Chapter 3.2, together with one or more non-dangerous substance(s), shall be regarded as the dangerous substance listed by name, unless:

- (a) the solution or mixture is specifically mentioned by name in Table A of Chapter 3.2; or
- (b) it is quite clear from the entry for the dangerous substance that it is applicable only to the pure or technically pure substance; or
- (c) the class, physical state or packing group of the solution or mixture is different from that of the dangerous substance.

In the cases referred to under (b) or (c) above, the solution or mixture shall be classified as a substance not mentioned by name in the relevant class under a collective entry listed in sub-section 2.2.x.3 of that class taking account of the subsidiary risks presented by that solution or mixture, if any, unless the solution or mixture do not meet the criteria of any class, in which case they are not subject to ADN.

2.1.3.4 Solutions and mixtures containing a substance belonging to one of the entries mentioned in 2.1.3.4.1 or 2.1.3.4.2 shall be classified in accordance with the provisions of these paragraphs.

2.1.3.4.1 Solutions and mixtures containing one of the following substances mentioned by name shall always be classified under the same entry as the substance they contain, provided they do not have the hazard characteristics as indicated in 2.1.3.5.3:

– Class 3

UN No. 1921 PROPYLENEIMINE, STABILIZED;

UN No. 2481 ETHYL ISOCYANATE;

UN No. 3064 NITROGLYCERIN SOLUTION IN ALCOHOL with more than 1% but not more than 5% nitroglycerin;

– Class 6.1

UN No. 1051 HYDROGEN CYANIDE, STABILIZED, containing less than 3% water;

UN No. 1185 ETHYLENEIMINE, STABILIZED;

UN No. 1259 NICKEL CARBONYL;

UN No. 1613 HYDROCYANIC ACID, AQUEOUS SOLUTION (HYDROGEN CYANIDE, AQUEOUS SOLUTION) with not more than 20% hydrogen cyanide;

UN No. 1614 HYDROGEN CYANIDE, STABILIZED, containing not more than 3% water and absorbed in a porous inert material;

UN No. 1994 IRON PENTACARBONYL;

UN No. 2480 METHYL ISOCYANATE;

UN No. 3294 HYDROGEN CYANIDE, SOLUTION IN ALCOHOL, with not more than 45% hydrogen cyanide;

– Class 8

UN No. 1052 HYDROGEN FLUORIDE, ANHYDROUS;

UN No. 1744 BROMINE or UN No. 1744 BROMINE SOLUTION;

UN No. 1790 HYDROFLUORIC ACID with more than 85% hydrogen fluoride;

UN No. 2576 PHOSPHORUS OXYBROMIDE, MOLTEN.

2.1.3.4.2 Solutions and mixtures containing a substance belonging to one of the following entries of Class 9:

UN No. 2315 POLYCHLORINATED BIPHENYLS, LIQUID;

UN No. 3151 POLYHALOGENATED BIPHENYLS, LIQUID;

UN No. 3151 POLYHALOGENATED TERPHENYLS, LIQUID;

UN No. 3152 POLYHALOGENATED BIPHENYLS, SOLID;

UN No. 3152 POLYHALOGENATED TERPHENYLS, SOLID; or

UN No. 3432 POLYCHLORINATED BIPHENYLS, SOLID

shall always be classified under the same entry of Class 9 provided that:

- they do not contain any additional dangerous component other than components of packing group III of classes 3, 4.1, 4.2, 4.3, 5.1, 6.1 or 8; and
- they do not have the hazard characteristics as indicated in 2.1.3.5.3.

2.1.3.5 Substances not mentioned by name in Table A of Chapter 3.2, having more than one hazard characteristic and solutions or mixtures containing several dangerous substances shall be classified under a collective entry (see 2.1.2.4) and packing group of the appropriate class in accordance with their hazard characteristics. Such classification according to the hazard characteristics shall be carried out as follows:

- 2.1.3.5.1 The physical and chemical characteristics and physiological properties shall be determined by measurement or calculation and the substance, solution or mixture shall be classified according to the criteria mentioned in sub-section 2.2.x.1 of the various classes.
- 2.1.3.5.2 If this determination is not possible without disproportionate cost or effort (as for some kinds of wastes), the substance, solution or mixture shall be classified in the class of the component presenting the major hazard.
- 2.1.3.5.3 If the hazard characteristics of the substance, solution or mixture fall within more than one class or group of substances listed below then the substance, solution or mixture shall be classified in the class or group of substances corresponding to the major hazard on the basis of the following order of precedence:
- (a) Material of Class 7 (apart from radioactive material in excepted packages where the other hazardous properties take precedence);
  - (b) Substances of Class 1;
  - (c) Substances of Class 2;
  - (d) Liquid desensitized explosives of Class 3;
  - (e) Self-reactive substances and solid desensitized explosives of Class 4.1;
  - (f) Pyrophoric substances of Class 4.2;
  - (g) Substances of Class 5.2;
  - (h) Substances of Class 6.1 or Class 3 which, on the basis of their inhalation toxicity, are to be classified under packing group I (Substances meeting the classification criteria of Class 8 and having an inhalation toxicity of dust and mist (LC<sub>50</sub>) in the range of packing group I and a toxicity through oral ingestion or dermal contact only in the range of packing group III or less, shall be allocated to Class 8);
  - (i) Infectious substances of Class 6.2.
- 2.1.3.5.4 If the hazard characteristics of the substance fall within more than one class or group of substances not listed in 2.1.3.5.3 above, the substance shall be classified in accordance with the same procedure but the relevant class shall be selected according to the precedence of hazards table in 2.1.3.10.
- 2.1.3.5.5 If the substance to be carried is a waste, with a composition that is not precisely known, its assignment to a UN number and packing group in accordance with 2.1.3.5.2 may be based on the consignor's knowledge of the waste, including all available technical and safety data as requested by safety and environmental legislation in force.\*

In case of doubt, the highest danger level shall be taken.

If however, on the basis of the knowledge of the composition of the waste and the physical and chemical properties of the identified components, it is possible to demonstrate that the

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\* Such legislation is for instance the Commission Decision 2000/532/EC of 3 May 2000 replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste (replaced by the Directive of the European Parliament and of the Council 2006/12/EC (Official Journal of the European Communities No. L 114 of 27 April 2006, page 9) and Council Decision 94/904/EC establishing a list of hazardous wastes pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous wastes (Official Journal of the European Communities No. L 226 of 6 September 2000, page 3).

properties of the waste do not correspond to the properties of the packing group I level, the waste may be classified by default in the most appropriate n.o.s. entry of packing group II.

This procedure may not be used for wastes containing substances mentioned in 2.1.3.5.3, substances of Class 4.3, substances of the case mentioned in 2.1.3.7 or substances which are not accepted for carriage in accordance with 2.2.x.2.

- 2.1.3.6 The most specific applicable collective entry (see 2.1.2.4) shall always be used, i.e. a general n.o.s. entry shall only be used if a generic entry or a specific n.o.s. entry cannot be used.
- 2.1.3.7 Solutions and mixtures of oxidizing substances or substances with an oxidizing subsidiary risk may have explosive properties. In such a case they are not to be accepted for carriage unless they meet the requirements for Class 1.
- 2.1.3.8 Substances of Classes 1 to 9, other than UN Nos. 3077 and 3082, meeting the criteria of 2.2.9.1.10 shall, additionally to their hazards of Classes 1 to 9, be considered to be environmentally hazardous substances. Other substances meeting the criteria of 2.2.9.1.10.1 or 2.2.9.1.10.2 shall be assigned to UN Nos. 3077 or 3082 or to identification Nos. 9005 or 9006, as appropriate.
- 2.1.3.9 Wastes which do not meet the criteria for classification in classes 1 to 9 but are covered by the *Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal* may be carried under UN Nos. 3077 or 3082.

**2.1.3.10 Table of precedence of hazards**

| Class and packing group | 4.1, II              | 4.1, III              | 4.2, II              | 4.2, III              | 4.3, I | 4.3, II | 4.3, III | 5.1, I                 | 5.1, II                  | 5.1, III                   | 6.1, I DERMAL | 6.1, I ORAL | 6.1, II                    | 6.1, III                     | 8, I                   | 8, II                    | 8, III                     | 9        |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|--------|---------|----------|------------------------|--------------------------|----------------------------|---------------|-------------|----------------------------|------------------------------|------------------------|--------------------------|----------------------------|----------|
| 3, I                    | SOL LIQ<br>4.1 3, I  | SOL LIQ<br>4.1 3, I   | SOL LIQ<br>4.2 3, I  | SOL LIQ<br>4.2 3, I   | 4.3, I | 4.3, I  | 4.3, I   | SOL LIQ<br>5.1, I 3, I | SOL LIQ<br>5.1, I 3, I   | SOL LIQ<br>5.1, I 3, I     | 3, I          | 3, I        | 3, I                       | 3, I                         | 3, I                   | 3, I                     | 3, I                       | 3, I     |
| 3, II                   | SOL LIQ<br>4.1 3, II | SOL LIQ<br>4.1 3, II  | SOL LIQ<br>4.2 3, II | SOL LIQ<br>4.2 3, II  | 4.3, I | 4.3, II | 4.3, II  | SOL LIQ<br>5.1, I 3, I | SOL LIQ<br>5.1, II 3, II | SOL LIQ<br>5.1, II 3, II   | 3, I          | 3, I        | 3, II                      | 3, II                        | 8, I                   | 3, II                    | 3, II                      | 3, II    |
| 3, III                  | SOL LIQ<br>4.1 3, II | SOL LIQ<br>4.1 3, III | SOL LIQ<br>4.2 3, II | SOL LIQ<br>4.2 3, III | 4.3, I | 4.3, II | 4.3, III | SOL LIQ<br>5.1, I 3, I | SOL LIQ<br>5.1, II 3, II | SOL LIQ<br>5.1, III 3, III | 6.1, I        | 6.1, I      | 6.1, II                    | 3, III */                    | 8, I                   | 8, II                    | 3, III                     | 3, III   |
| 4.1, II                 |                      |                       | 4.2, II              | 4.2, II               | 4.3, I | 4.3, II | 4.3, II  | 5.1, I                 | 4.1, II                  | 4.1, II                    | 6.1, I        | 6.1, I      | SOL LIQ<br>4.1, II 6.1, II | SOL LIQ<br>4.1, II 6.1, II   | 8, I                   | SOL LIQ<br>4.1, II 8, II | SOL LIQ<br>4.1, II 8, II   | 4.1, II  |
| 4.1, III                |                      |                       | 4.2, II              | 4.2, III              | 4.3, I | 4.3, II | 4.3, III | 5.1, I                 | 4.1, II                  | 4.1, III                   | 6.1, I        | 6.1, I      | 6.1, II                    | SOL LIQ<br>4.1, III 6.1, III | 8, I                   | 8, II                    | SOL LIQ<br>4.1, III 8, III | 4.1, III |
| 4.2, II                 |                      |                       |                      |                       | 4.3, I | 4.3, II | 4.3, II  | 5.1, I                 | 4.2, II                  | 4.2, II                    | 6.1, I        | 6.1, I      | 4.2, II                    | 4.2, II                      | 8, I                   | 4.2, II                  | 4.2, II                    | 4.2, II  |
| 4.2, III                |                      |                       |                      |                       | 4.3, I | 4.3, II | 4.3, III | 5.1, I                 | 5.1, II                  | 4.2, III                   | 6.1, I        | 6.1, I      | 6.1, II                    | 4.2, III                     | 8, I                   | 8, II                    | 4.2, III                   | 4.2, III |
| 4.3, I                  |                      |                       |                      |                       |        |         |          | 5.1, I                 | 4.3, I                   | 4.3, I                     | 6.1, I        | 4.3, I      | 4.3, I                     | 4.3, I                       | 4.3, I                 | 4.3, I                   | 4.3, I                     | 4.3, I   |
| 4.3, II                 |                      |                       |                      |                       |        |         |          | 5.1, I                 | 4.3, II                  | 4.3, II                    | 6.1, I        | 4.3, I      | 4.3, II                    | 4.3, II                      | 8, I                   | 4.3, II                  | 4.3, II                    | 4.3, II  |
| 4.3, III                |                      |                       |                      |                       |        |         |          | 5.1, I                 | 5.1, II                  | 4.3, III                   | 6.1, I        | 6.1, I      | 6.1, II                    | 4.3, III                     | 8, I                   | 8, II                    | 4.3, III                   | 4.3, III |
| 5.1, I                  |                      |                       |                      |                       |        |         |          |                        |                          |                            | 5.1, I        | 5.1, I      | 5.1, I                     | 5.1, I                       | 5.1, I                 | 5.1, I                   | 5.1, I                     | 5.1, I   |
| 5.1, II                 |                      |                       |                      |                       |        |         |          |                        |                          |                            | 6.1, I        | 5.1, I      | 5.1, II                    | 5.1, II                      | 8, I                   | 5.1, II                  | 5.1, II                    | 5.1, II  |
| 5.1, III                |                      |                       |                      |                       |        |         |          |                        |                          |                            | 6.1, I        | 6.1, I      | 6.1, II                    | 5.1, III                     | 8, I                   | 8, II                    | 5.1, III                   | 5.1, III |
| 6.1, I DERMAL           |                      |                       |                      |                       |        |         |          |                        |                          |                            |               |             |                            |                              | SOL LIQ<br>6.1, I 8, I | 6.1, I                   | 6.1, I                     | 6.1, I   |
| 6.1, I ORAL             |                      |                       |                      |                       |        |         |          |                        |                          |                            |               |             |                            |                              | SOL LIQ<br>6.1, I 8, I | 6.1, I                   | 6.1, I                     | 6.1, I   |
| 6.1, II INHAL           |                      |                       |                      |                       |        |         |          |                        |                          |                            |               |             |                            |                              | SOL LIQ<br>6.1, I 8, I | 6.1, II                  | 6.1, II                    | 6.1, II  |
| 6.1, II DERMAL          |                      |                       |                      |                       |        |         |          |                        |                          |                            |               |             |                            |                              | SOL LIQ<br>6.1, I 8, I | SOL LIQ<br>6.1, II 8, II | 6.1, II                    | 6.1, II  |
| 6.1, II ORAL            |                      |                       |                      |                       |        |         |          |                        |                          |                            |               |             |                            |                              | 8, I                   | SOL LIQ<br>6.1, II 8, II | 6.1, II                    | 6.1, II  |
| 6.1, III                |                      |                       |                      |                       |        |         |          |                        |                          |                            |               |             |                            |                              | 8, I                   | 8, II                    | 8, III                     | 6.1, III |
| 8, I                    |                      |                       |                      |                       |        |         |          |                        |                          |                            |               |             |                            |                              |                        |                          |                            | 8, I     |
| 8, II                   |                      |                       |                      |                       |        |         |          |                        |                          |                            |               |             |                            |                              |                        |                          |                            | 8, II    |
| 8, III                  |                      |                       |                      |                       |        |         |          |                        |                          |                            |               |             |                            |                              |                        |                          |                            | 8, III   |

SOL = Solid substances and mixtures  
 LIQ = Liquid substances, mixtures and solutions  
 DERMAL = Dermal toxicity  
 ORAL = Oral toxicity  
 INHAL = Inhalation toxicity  
 \*/ = Class 6.1 for pesticides

**NOTE 1: Examples to explain the use of the table**

**Classification of a single substance**

*Description of the substance to be classified:*

*An amine not mentioned by name meeting the criteria for Class 3, packing group II as well as those for Class 8, packing group I.*

*Procedure:*

*The intersection of line 3 II with column 8 I gives 8 I.*

*This amine has therefore to be classified in Class 8 under:*

*UN No. 2734 AMINES LIQUID, CORROSIVE, FLAMMABLE, N.O.S. or UN No. 2734 POLYAMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. packing group I*

**Classification of a mixture**

*Description of the mixture to be classified:*

*Mixture consisting of a flammable liquid classified in Class 3, packing group III, a toxic substance in Class 6.1, packing group II and a corrosive substance in Class 8, packing group I.*

*Procedure*

*The intersection of line 3 III with column 6.1 II gives 6.1 II.*

*The intersection of line 6.1 II with column 8 I gives 8 I LIQ.*

*This mixture not further defined has therefore to be classified in Class 8 under:*

*UN No. 2922 CORROSIVE LIQUID, TOXIC, N.O.S. packing group I.*

**NOTE 2: Examples for the classification of mixtures and solutions under a class and a packing group:**

*A phenol solution of Class 6.1, (II), in benzene of Class 3, (II) is to be classified in Class 3, (II); this solution is to be classified under UN No. 1992 FLAMMABLE LIQUID, TOXIC, N.O.S., Class 3, (II), by virtue of the toxicity of the phenol.*

*A solid mixture of sodium arsenate of Class 6.1, (II) and sodium hydroxide of Class 8, (II) is to be classified under UN No. 3290 TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S., in Class 6.1 (II).*

*A solution of crude or refined naphthalene of Class 4.1, (III) in petrol of Class 3, (II), is to be classified under UN No. 3295 HYDROCARBONS, LIQUID, N.O.S. in Class 3, (II).*

*A mixture of hydrocarbons of Class 3, (III), and of polychlorinated biphenyls (PCB) of Class 9, (II), is to be classified under UN No. 2315 POLYCHLORINATED BIPHENYLS, LIQUID or UN No. 3432 POLYCHLORINATED BIPHENYLS, SOLID in Class 9, (II).*

*A mixture of propyleneimine of Class 3, and polychlorinated biphenyls (PCB) of Class 9, (II), is to be classified under UN No. 1921 PROPYLENEIMINE, INHIBITED in Class 3.*



## **2.1.4 Classification of samples**

2.1.4.1 When the class of a substance is uncertain and it is being carried for further testing, a tentative class, proper shipping name and UN number shall be assigned on the basis of the consignor's knowledge of the substance and application of:

- (a) the classification criteria of Chapter 2.2; and
- (b) the requirements of this Chapter.

The most severe packing group possible for the proper shipping name chosen shall be used.

Where this provision is used the proper shipping name shall be supplemented with the word "SAMPLE" (e.g., "FLAMMABLE LIQUID, N.O.S., SAMPLE"). In certain instances, where a specific proper shipping name is provided for a sample of a substance considered to meet certain classification criteria (e.g., GAS SAMPLE, NON-PRESSURIZED, FLAMMABLE, UN No. 3167) that proper shipping name shall be used. When an N.O.S. entry is used to carry the sample, the proper shipping name need not be supplemented with the technical name as required by special provision 274 of Chapter 3.3.

2.1.4.2 Samples of the substance shall be carried in accordance with the requirements applicable to the tentative assigned proper shipping name provided:

- (a) the substance is not considered to be a substance not accepted for carriage by sub-sections 2.2.x.2 of Chapter 2.2 or by Chapter 3.2;
- (b) the substance is not considered to meet the criteria for Class 1 or considered to be an infectious substance or a radioactive material;
- (c) the substance is in compliance with 2.2.41.1.15 or 2.2.52.1.9 if it is a self-reactive substance or an organic peroxide, respectively;
- (d) the sample is carried in a combination packaging with a net mass per package not exceeding 2.5 kg; and
- (e) the sample is not packed together with other goods.



## CHAPTER 2.2

### CLASS SPECIFIC PROVISIONS

#### 2.2.1 Class 1 Explosive substances and articles

##### 2.2.1.1 Criteria

2.2.1.1.1 The heading of Class 1 covers:

- (a) Explosive substances: solid or liquid substances (or mixtures of substances) capable by chemical reaction of producing gases at such a temperature and pressure and at such a speed as to cause damage to the surroundings.

Pyrotechnic substances: substances or mixtures of substances designed to produce an effect by heat, light, sound, gas or smoke or a combination of these as the result of non-detonating self-sustaining exothermic chemical reactions.

*NOTE 1: Substances which are not themselves explosive but which may form an explosive mixture of gas, vapour or dust are not substances of Class 1.*

*NOTE 2: Also excluded from Class 1 are: water- or alcohol-wetted explosives of which the water or alcohol content exceeds the limits specified and those containing plasticizers - these explosives are assigned to Class 3 or Class 4.1 - and those explosives which, on the basis of their predominant hazard, are assigned to Class 5.2.*

- (b) Explosive articles: articles containing one or more explosive or pyrotechnic substances.

*NOTE: Devices containing explosive or pyrotechnic substances in such small quantity or of such a character that their inadvertent or accidental ignition or initiation during carriage would not cause any manifestation external to the device by projection, fire, smoke, heat or loud noise are not subject to the requirements of Class 1.*

- (c) Substances and articles not mentioned above which are manufactured with a view to producing a practical effect by explosion or a pyrotechnic effect.

2.2.1.1.2 Any substance or article having or suspected of having explosive properties shall be considered for assignment to Class 1 in accordance with the tests, procedures and criteria prescribed in Part I, Manual of Tests and Criteria.

A substance or article assigned to Class 1 can only be accepted for carriage when it has been assigned to a name or n.o.s. entry listed in Table A of Chapter 3.2 and meets the criteria of the Manual of Tests and Criteria.

2.2.1.1.3 The substances and articles of Class 1 shall be assigned to a UN Number and a name or n.o.s. entry listed in Table A of Chapter 3.2. Interpretation of the names of substances and articles in Table A of Chapter 3.2 shall be based upon the glossary in 2.2.1.1.8.

Samples of new or existing explosive substances or articles carried for purposes including: testing, classification, research and development quality control, or as a commercial sample, other than initiating explosive, may be assigned to UN No. 0190 SAMPLES, EXPLOSIVE.

The assignment of explosive substances and articles not mentioned by name as such in Table A of Chapter 3.2 to an n.o.s. entry of Class 1 or UN No. 0190 SAMPLES, EXPLOSIVE as well as the assignment of certain substances the carriage of which is subject

to a specific authorization by the competent authority according to the special provisions referred to in Column (6) of Table A of Chapter 3.2 shall be made by the competent authority of the country of origin. This competent authority shall also approve in writing the conditions of carriage of these substances and articles. If the country of origin is not a Contracting Party to ADN, the classification and the conditions of carriage shall be recognized by the competent authority of the first country Contracting Party to ADN reached by the consignment.

2.2.1.1.4 Substances and articles of Class 1 shall have been assigned to a division in accordance with 2.2.1.1.5 and to a compatibility group in accordance with 2.2.1.1.6. The division shall be based on the results of the tests described in section 2.3.1 applying the definitions in 2.2.1.1.5. The compatibility group shall be determined in accordance with the definitions in 2.2.1.1.6. The classification code shall consist of the division number and the compatibility group letter.

2.2.1.1.5 *Definition of divisions*

Division 1.1 Substances and articles which have a mass explosion hazard (a mass explosion is an explosion which affects almost the entire load virtually instantaneously).

Division 1.2 Substances and articles which have a projection hazard but not a mass explosion hazard.

Division 1.3 Substances and articles which have a fire hazard and either a minor blast hazard or a minor projection hazard or both, but not a mass explosion hazard:

- (a) combustion of which gives rise to considerable radiant heat; or
- (b) which burn one after another, producing minor blast or projection effects or both.

Division 1.4 Substances and articles which present only a slight risk of explosion in the event of ignition or initiation during carriage. The effects are largely confined to the package and no projection of fragments of appreciable size or range is to be expected. An external fire shall not cause virtually instantaneous explosion of almost the entire contents of the package.

Division 1.5 Very insensitive substances having a mass explosion hazard which are so insensitive that there is very little probability of initiation or of transition from burning to detonation under normal conditions of carriage. As a minimum requirement they must not explode in the external fire test.

Division 1.6 Extremely insensitive articles which do not have a mass explosion hazard. The articles contain only extremely insensitive detonating substances and demonstrate a negligible probability of accidental initiation or propagation.

*NOTE: The risk from articles of Division 1.6 is limited to the explosion of a single article.*

2.2.1.1.6 *Definition of compatibility groups of substances and articles*

- A Primary explosive substance.
- B Article containing a primary explosive substance and not having two or more effective protective features. Some articles, such as detonators for blasting, detonator assemblies for blasting and primers, cap-type, are included, even though they do not contain primary explosives.
- C Propellant explosive substance or other deflagrating explosive substance or article containing such explosive substance.
- D Secondary detonating explosive substance or black powder or article containing a secondary detonating explosive substance, in each case without means of initiation and without a propelling charge, or article containing a primary explosive substance and having two or more effective protective features.
- E Article containing a secondary detonating explosive substance, without means of initiation, with a propelling charge (other than one containing a flammable liquid or gel or hypergolic liquids).
- F Article containing a secondary detonating explosive substance with its own means of initiation, with a propelling charge (other than one containing a flammable liquid or gel or hypergolic liquids) or without a propelling charge.
- G Pyrotechnic substance, or article containing a pyrotechnic substance, or article containing both an explosive substance and an illuminating, incendiary, tear- or smoke-producing substance (other than a water-activated article or one which contains white phosphorus, phosphides, a pyrophoric substance, a flammable liquid or gel or hypergolic liquids).
- H Article containing both an explosive substance and white phosphorus.
- J Article containing both an explosive substance and a flammable liquid or gel.
- K Article containing both an explosive substance and a toxic chemical agent.
- L Explosive substance or article containing an explosive substance and presenting a special risk (e.g. due to water activation or the presence of hypergolic liquids, phosphides or a pyrophoric substance) necessitating isolation of each type.
- N Articles containing only extremely insensitive detonating substances.
- S Substance or article so packed or designed that any hazardous effects arising from accidental functioning are confined within the package unless the package has been degraded by fire, in which case all blast or projection effects are limited to the extent that they do not significantly hinder or prevent fire-fighting or other emergency response efforts in the immediate vicinity of the package.

**NOTE 1:** *Each substance or article, packed in a specified packaging, may be assigned to one compatibility group only. Since the criterion of compatibility group S is empirical, assignment to this group is necessarily linked to the tests for assignment of a classification code.*

**NOTE 2:** *Articles of compatibility groups D and E may be fitted or packed together with their own means of initiation provided that such means have at least two effective protective*

*features designed to prevent an explosion in the event of accidental functioning of the means of initiation. Such packages shall be assigned to compatibility groups D or E.*

**NOTE 3:** *Articles of compatibility groups D and E may be packed together with their own means of initiation, which do not have two effective protective features (i.e. means of initiation assigned to compatibility group B), provided that they comply with mixed packing provision MP 21 of Section 4.1.10 of ADR.. Such packages shall be assigned to compatibility groups D or E.*

**NOTE 4:** *Articles may be fitted or packed together with their own means of ignition provided that the means of ignition cannot function during normal conditions of carriage.*

**NOTE 5:** *Articles of compatibility groups C, D and E may be packed together. Such packages shall be assigned to compatibility group E.*

#### 2.2.1.1.7 *Assignment of fireworks to divisions*

2.2.1.1.7.1 Fireworks shall normally be assigned to divisions 1.1, 1.2, 1.3, and 1.4 on the basis of test data derived from Test Series 6 of the Manual of Tests and Criteria. However, since the range of such articles is very extensive and the availability of test facilities may be limited, assignment to divisions may also be made in accordance with the procedure in 2.2.1.1.7.2.

2.2.1.1.7.2 Assignment of fireworks to UN No. 0333, 0334, 0335 or 0336 may be made on the basis of analogy, without the need for Test Series 6 testing, in accordance with the default fireworks classification table in 2.2.1.1.7.5. Such assignment shall be made with the agreement of the competent authority. Items not specified in the table shall be classified on the basis of test data derived from Test Series 6.

**NOTE 1:** *The addition of other types of fireworks to column 1 of the table in 2.2.1.1.7.5 shall only be made on the basis of full test data submitted to the UN Sub-Committee of Experts on the Transport of Dangerous Goods for consideration.*

**NOTE 2:** *Test data derived by competent authorities which validates, or contradicts the assignment of fireworks specified in column 4 of the table in 2.2.1.1.7.5 to divisions in column 5 should be submitted to the UN Sub-Committee of Experts on the Transport of Dangerous Goods for information.*

2.2.1.1.7.3 Where fireworks of more than one division are packed in the same package they shall be classified on the basis of the highest division unless test data derived from Test Series 6 indicate otherwise.

2.2.1.1.7.4 The classification shown in the table in 2.2.1.1.7.5 applies only for articles packed in fibreboard boxes (4G).

#### 2.2.1.1.7.5 *Default fireworks classification table*<sup>1</sup>

**NOTE 1:** *References to percentages in the table, unless otherwise stated, are to the mass of all pyrotechnic composition (e.g. rocket motors, lifting charge, bursting charge and effect charge).*

**NOTE 2:** *“Flash composition” in this table refers to pyrotechnic compositions in powder form or as pyrotechnic units as presented in the fireworks, that are used to produce an aural effect, or used as a bursting charge or lifting charge, unless the time taken for the pressure*

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<sup>1</sup> This table contains a list of firework classifications which may be used in the absence of Test Series 6 data (see 2.2.1.1.7.2).

*rise is demonstrated to be more than 8 ms for 0.5 g of pyrotechnic composition in Test Series 2(c)(i) "Time/pressure test" of the Manual of Tests and Criteria.*

**NOTE 3:** *Dimensions in mm refer to:*

- *for spherical and peanut shells the diameter of the sphere of the shell;*
- *for cylinder shells the length of the shell;*
- *for a shell in mortar, Roman candle, shot tube firework or mine the inside diameter of the tube comprising or containing the firework;*
- *for a bag mine or cylinder mine, the inside diameter of the mortar intended to contain the mine.*

| Type                              | Includes: / Synonym:  | Definition   | Specification  | Classification |
|-----------------------------------|---|--|--|----------------|
| Shell, spherical or cylindrical   | Spherical display shell: aerial shell, colour shell, dye shell, multi-break shell, multi-effect shell, nautical shell, parachute shell, smoke shell, star shell; report shell: maroon, salute, sound shell, thunderclap, aerial shell kit | Device with or without propellant charge, with delay fuse and bursting charge, pyrotechnic unit(s) or loose pyrotechnic composition and designed to be projected from a mortar | All report shells  | 1.1G           |
|                                   |   |  | Colour shell: $\geq 180$ mm  | 1.1G           |
|                                   |   |  | Colour shell: $< 180$ mm with $> 25\%$ flash composition, as loose powder and/or report effects  | 1.1G           |
|                                   |   |  | Colour shell: $< 180$ mm with $\leq 25\%$ flash composition, as loose powder and/or report effects   | 1.3G           |
|                                   |   |  | Colour shell: $\leq 50$ mm, or $\leq 60$ g pyrotechnic composition, with $\leq 2\%$ flash composition as loose powder and/or report effects  | 1.4G           |
| Peanut shell                      |   | Device with two or more spherical aerial shells in a common wrapper propelled by the same propellant charge with separate external delay fuses                                 | The most hazardous spherical aerial shell determines the classification  |                |
| Preloaded mortar, shell in mortar |   | Assembly comprising a spherical or cylindrical shell inside a mortar from which the shell is designed to be projected  | All report shells  | 1.1G           |
|                                   |   |  | Colour shell: $\geq 180$ mm  | 1.1G           |
|                                   |   |  | Colour shell: $> 25\%$ flash composition as loose powder and/or report effects   | 1.1G           |
|                                   |   |  | Colour shell: $> 50$ mm and $< 180$ mm   | 1.2G           |
|                                   |   |  | Colour shell: $\leq 50$ mm, or $\leq 60$ g pyrotechnic composition, with $\leq 25\%$ flash composition as loose powder and/or report effects | 1.3G           |



| Type   | Includes: / Synonym:  | Definition  | Specification  | Classification |
|--|---|---|--|----------------|
| Shell, spherical or cylindrical<br><i>(cont'd)</i> | Shell of shells (spherical)<br><i>(Reference to percentages for shell of shells are to the gross mass of the fireworks article)</i> | Device without propellant charge, with delay fuse and bursting charge, containing report shells and inert materials and designed to be projected from a mortar  | > 120 mm   | 1.1G           |
|  |   | Device without propellant charge, with delay fuse and bursting charge, containing report shells $\leq 25g$ flash composition per report unit, with $\leq 33\%$ flash composition and $\geq 60\%$ inert materials and designed to be projected from a mortar | $\leq 120$ mm  | 1.3G           |
|  |   | Device without propellant charge, with delay fuse and bursting charge, containing colour shells and/or pyrotechnic units and designed to be projected from a mortar   | > 300 mm   | 1.1G           |
|  |   | Device without propellant charge, with delay fuse and bursting charge, containing colour shells $\leq 70mm$ and/or pyrotechnic units, with $\leq 25\%$ flash composition and $\leq 60\%$ pyrotechnic composition and designed to be projected from a mortar | > 200 mm and $\leq 300$ mm                                     | 1.3G           |
|  |   | Device with propellant charge, with delay fuse and bursting charge, containing colour shells $\leq 70$ mm and/or pyrotechnic units, with $\leq 25\%$ flash composition and $\leq 60\%$ pyrotechnic composition and designed to be projected from a mortar   | $\leq 200$ mm  | 1.3G           |
| Battery/<br>combination                            | Barrage, bombardos, cakes, finale box, flowerbed, hybrid, multiple tubes, shell cakes, banger batteries, flash banger batteries     | Assembly including several elements either containing the same type or several types each corresponding to one of the types of fireworks listed in this table, with one or two points of ignition   | The most hazardous firework type determines the classification |                |

| Type         | Includes: / Synonym:  | Definition   | Specification   | Classification |
|--------------|---|--|---|----------------|
| Roman candle | Exhibition candle, candle, bombettes  | Tube containing a series of pyrotechnic units consisting of alternate pyrotechnic composition, propellant charge, and transmitting fuse  | ≥ 50 mm inner diameter, containing flash composition, or < 50 mm with > 25% flash composition                             | 1.1G           |
|              |   |  | ≥ 50 mm inner diameter, containing no flash composition   | 1.2G           |
|              |   |  | < 50 mm inner diameter and ≤ 25% flash composition  | 1.3G           |
|              |   |  | ≤ 30 mm inner diameter, each pyrotechnic unit ≤ 25 g and ≤ 5% flash composition   | 1.4G           |
| Shot tube    | Single shot Roman candle, small preloaded mortar  | Tube containing a pyrotechnic unit consisting of pyrotechnic composition, propellant charge with or without transmitting fuse  | ≤ 30 mm inner diameter and pyrotechnic unit > 25 g, or > 5% and ≤ 25% flash composition                                   | 1.3G           |
|              |   |  | ≤ 30 mm inner diameter, pyrotechnic unit ≤ 25 g and ≤ 5% flash composition  | 1.4G           |
| Rocket       | Avalanche rocket, signal rocket, whistling rocket, bottle rocket, sky rocket, missile type rocket, table rocket | Tube containing pyrotechnic composition and/or pyrotechnic units, equipped with stick(s) or other means for stabilization of flight, and designed to be propelled into the air | Flash composition effects only  | 1.1G           |
|              |   |  | Flash composition > 25% of the pyrotechnic composition  | 1.1G           |
|              |   |  | > 20 g pyrotechnic composition and flash composition ≤ 25%  | 1.3G           |
|              |   |  | ≤ 20 g pyrotechnic composition, black powder bursting charge and ≤ 0.13 g flash composition per report and ≤ 1 g in total | 1.4G           |

| Type         | Includes: / Synonym:  | Definition   | Specification   | Classification |
|--------------|---|--|---|----------------|
| Mine         | Pot-a-feu, ground mine, bag mine, cylinder mine   | Tube containing propellant charge and pyrotechnic units and designed to be placed on the ground or to be fixed in the ground. The principal effect is ejection of all the pyrotechnic units in a single burst producing a widely dispersed visual and/or aural effect in the air or: | > 25% flash composition, as loose powder and/ or report effects   | 1.1G           |
|              |   |  | ≥ 180 mm and ≤ 25% flash composition, as loose powder and/ or report effects  | 1.1G           |
|              |   | Cloth or paper bag or cloth or paper cylinder containing propellant charge and pyrotechnic units, designed to be placed in a mortar and to function as a mine  | < 180 mm and ≤ 25% flash composition, as loose powder and/ or report effects  | 1.3G           |
|              |   |  | ≤ 150 g pyrotechnic composition, containing ≤ 5% flash composition as loose powder and/ or report effects. Each pyrotechnic unit ≤ 25 g, each report effect < 2g; each whistle, if any, ≤ 3 g | 1.4G           |
| Fountain     | Volcanos, gerbs, showers, lances, Bengal fire, flitter sparkle, cylindrical fountains, cone fountains, illuminating torch | Non-metallic case containing pressed or consolidated pyrotechnic composition producing sparks and flame  | ≥ 1 kg pyrotechnic composition  | 1.3G           |
|              |   |  | < 1 kg pyrotechnic composition  | 1.4G           |
| Sparkler     | Handheld sparklers, non-handheld sparklers, wire sparklers  | Rigid wire partially coated (along one end) with slow burning pyrotechnic composition with or without an ignition tip  | Perchlorate based sparklers: > 5 g per item or > 10 items per pack  | 1.3G           |
|              |   |  | Perchlorate based sparklers: ≤ 5 g per item and ≤ 10 items per pack;<br>Nitrate based sparklers: ≤ 30 g per item  | 1.4G           |
| Bengal stick | Dipped stick  | Non-metallic stick partially coated (along one end) with slow-burning pyrotechnic composition and designed to be held in the hand  | Perchlorate based items: > 5 g per item or > 10 items per pack  | 1.3 G          |
|              |   |  | Perchlorate based items: ≤ 5 g per item and ≤ 10 items per pack;<br>nitrate based items: ≤ 30 g per item  | 1.4G           |

| Type                               | Includes: / Synonym:  | Definition   | Specification   | Classification |
|------------------------------------|---|--|---|----------------|
| Low hazard fireworks and novelties | Table bombs, throwdowns, crackling granules, smokes, fog, snakes, glow worm, serpents, snaps, party poppers | Device designed to produce very limited visible and/ or audible effect which contains small amounts of pyrotechnic and/or explosive composition.                       | Throwdowns and snaps may contain up to 1.6 mg of silver fulminate; snaps and party poppers may contain up to 16 mg of potassium chlorate/red phosphorous mixture; other articles may contain up to 5 g of pyrotechnic composition, but no flash composition | 1.4G           |
| Spinner                            | Aerial spinner, helicopter, chaser, ground spinner  | Non-metallic tube or tubes containing gas- or spark-producing pyrotechnic composition, with or without noise producing composition, with or without aerofoils attached | Pyrotechnic composition per item > 20 g, containing ≤ 3% flash composition as report effects, or whistle composition ≤ 5 g  | 1.3G           |
|                                    |   |  | Pyrotechnic composition per item ≤ 20 g, containing ≤ 3% flash composition as report effects, or whistle composition ≤ 5 g  | 1.4G           |
| Wheels                             | Catherine wheels, Saxon   | Assembly including drivers containing pyrotechnic composition and provided with a means of attaching it to a support so that it can rotate                             | ≥ 1 kg total pyrotechnic composition, no report effect, each whistle (if any) ≤ 25 g and ≤ 50 g whistle composition per wheel   | 1.3G           |
|                                    |   |  | < 1 kg total pyrotechnic composition, no report effect, each whistle (if any) ≤ 5 g and ≤ 10 g whistle composition per wheel  | 1.4G           |
| Aerial wheel                       | Flying Saxon, UFO's, rising crown   | Tubes containing propellant charges and sparks-flame- and/or noise producing pyrotechnic compositions, the tubes being fixed to a supporting ring                      | > 200 g total pyrotechnic composition or > 60 g pyrotechnic composition per driver, ≤ 3% flash composition as report effects, each whistle (if any) ≤ 25 g and ≤ 50 g whistle composition per wheel   | 1.3G           |

| Type           | Includes: / Synonym:  | Definition   | Specification   | Classification |
|----------------|---|--|---|----------------|
|                |   |  | ≤ 200 g total pyrotechnic composition and ≤ 60 g pyrotechnic composition per driver, ≤ 3% flash composition as report effects, each whistle (if any) ≤ 5 g and ≤ 10 g whistle composition per wheel | 1.4G           |
| Selection pack | Display selection box, display selection pack, garden selection box, indoor selection box; assortment | A pack of more than one type each corresponding to one of the types of fireworks listed in this table              | The most hazardous firework type determines the classification  |                |
| Firecracker    | Celebration cracker, celebration roll, string cracker   | Assembly of tubes (paper or cardboard) linked by a pyrotechnic fuse, each tube intended to produce an aural effect | Each tube ≤ 140 mg of flash composition or ≤ 1 g black powder   | 1.4G           |
| Banger         | Salute, flash banger, lady cracker  | Non-metallic tube containing report composition intended to produce an aural effect                                | > 2 g flash composition per item  | 1.1G           |
|                |   |  | ≤ 2 g flash composition per item and ≤ 10 g per inner packaging   | 1.3G           |
|                |   |  | ≤ 1 g flash composition per item and ≤ 10 g per inner packaging or ≤ 10 g black powder per item   | 1.4G           |

2.2.1.1.8 *Glossary of names*

**NOTE 1:** *The descriptions in the glossary are not intended to replace the test procedures, nor to determine the hazard classification of a substance or article of Class 1. Assignment to the correct division and a decision on whether Compatibility Group S is appropriate shall be based on testing of the product in accordance with the Manual of Tests and Criteria, Part I or by analogy with similar products which have already been tested and assigned in accordance with the procedures of the Manual of Tests and Criteria.*

**NOTE 2:** *The figures given after the names refer to the relevant UN numbers (Column (1) of Table A of Chapter 3.2). For the classification code, see 2.2.1.1.4.*

AIR BAG INFLATORS or AIR BAG MODULES or SEAT-BELT PRETENSIONERS:  
UN No. 0503

Articles which contain pyrotechnic substances and are used as life-saving vehicle airbags or seat-belts.

AMMUNITION, ILLUMINATING, with or without burster, expelling charge or propelling charge: UN Nos. 0171, 0254, 0297

Ammunition designed to produce a single source of intense light for lighting up an area. The term includes illuminating cartridges, grenades and projectiles; and illuminating and target identification bombs.

**NOTE:** *The following articles: CARTRIDGES, SIGNAL; SIGNAL DEVICES HAND; SIGNALS, DISTRESS; FLARES, AERIAL; FLARES, SURFACE are not included in this definition. They are listed separately.*

AMMUNITION, INCENDIARY, liquid or gel, with burster, expelling charge or propelling charge: UN No. 0247

Ammunition containing liquid or gelatinous incendiary substance. Except when the incendiary substance is an explosive per se, it also contains one or more of the following: a propelling charge with primer and igniter charge; a fuze with burster or expelling charge.

AMMUNITION, INCENDIARY, WHITE PHOSPHORUS with burster, expelling charge or propelling charge: UN Nos. 0243, 0244

Ammunition containing white phosphorus as incendiary substance. It also contains one or more of the following: a propelling charge with primer and igniter charge; a fuze with burster or expelling charge.

AMMUNITION, INCENDIARY with or without burster, expelling charge or propelling charge: UN Nos. 0009, 0010, 0300

Ammunition containing incendiary composition. Except when the composition is an explosive per se, it also contains one or more of the following: a propelling charge with primer and igniter charge; a fuze with burster or expelling charge.

AMMUNITION, PRACTICE: UN Nos. 0362, 0488

Ammunition without a main bursting charge, containing a burster or expelling charge. Normally it also contains a fuze and a propelling charge.

**NOTE:** *GRENADES, PRACTICE* are not included in this definition. They are listed separately.

AMMUNITION, PROOF: UN No. 0363

Ammunition containing pyrotechnic substances, used to test the performance or strength of new ammunition, weapon components or assemblies.

AMMUNITION, SMOKE, WHITE PHOSPHORUS, with burster, expelling charge or propelling charge: UN Nos. 0245, 0246

Ammunition containing white phosphorus as a smoke-producing substance. It also contains one or more of the following: a propelling charge with primer and igniter charge; a fuze with burster or expelling charge. The term includes grenades, smoke.

AMMUNITION, SMOKE with or without burster, expelling charge or propelling charge: UN Nos. 0015, 0016, 0303

Ammunition containing a smoke-producing substance such as chlorosulphonic acid mixture or titanium tetrachloride; or a smoke-producing pyrotechnic composition based on hexachloroethane or red phosphorus. Except when the substance is an explosive per se, the ammunition also contains one or more of the following: a propelling charge with primer and igniter charge; a fuze with burster or expelling charge. The term includes grenades, smoke.

**NOTE:** *SIGNALS, SMOKE* are not included in this definition. They are listed separately.

AMMUNITION, TEAR-PRODUCING, with burster, expelling charge or propelling charge: UN Nos. 0018, 0019, 0301

Ammunition containing a tear-producing substance. It also contains one or more of the following: a pyrotechnic substance; a propelling charge with primer and igniter charge; a fuze with burster or expelling charge.

ARTICLES, EXPLOSIVE, EXTREMELY INSENSITIVE (ARTICLES EEI): UN No. 0486

Articles containing only extremely insensitive detonating substances (EIDS) which demonstrate a negligible probability of accidental initiation or propagation under normal conditions of transport, and which have passed Test Series 7.

ARTICLES, PYROPHORIC: UN No. 0380

Articles which contain a pyrophoric substance (capable of spontaneous ignition when exposed to air) and an explosive substance or component. The term excludes articles containing white phosphorus.

ARTICLES, PYROTECHNIC, for technical purposes: UN Nos. 0428, 0429, 0430, 0431, 0432

Articles which contain pyrotechnic substances and are used for technical purposes such as heat generation, gas generation, theatrical effects, etc.

**NOTE:** *The following articles: all ammunition; CARTRIDGES, SIGNAL; CUTTERS, CABLE, EXPLOSIVE; FIREWORKS; FLARES, AERIAL; FLARES, SURFACE; RELEASE DEVICES, EXPLOSIVE; RIVETS, EXPLOSIVE; SIGNAL DEVICES, HAND; SIGNALS,*

*DISTRESS; SIGNALS, RAILWAY TRACK, EXPLOSIVES; SIGNALS, SMOKE are not included in this definition. They are listed separately.*

BLACK POWDER (GUNPOWDER), COMPRESSED or BLACK POWDER (GUNPOWDER), IN PELLETS: UN No. 0028

Substance consisting of a pelletized form of black powder.

BLACK POWDER (GUNPOWDER), granular or as meal: UN No. 0027

Substance consisting of an intimate mixture of charcoal or other carbon and either potassium nitrate or sodium nitrate, with or without sulphur.

BOMBS, WITH FLAMMABLE LIQUID, with bursting charge: UN Nos. 0399, 0400

Articles which are dropped from aircraft, consisting of a tank filled with inflammable liquid and bursting charge.

BOMBS, PHOTO-FLASH: UN No. 0038

Explosive articles which are dropped from aircraft to provide brief, intense illumination for photography. They contain a charge of detonating explosive without means of initiation or with means of initiation containing two or more effective protective features.

BOMBS, PHOTO-FLASH: UN No. 0037

Explosive articles which are dropped from aircraft to provide brief, intense illumination for photography. They contain a charge of detonating explosive with means of initiation not containing two or more effective protective features.

BOMBS, PHOTO-FLASH: UN Nos. 0039, 0299

Explosive articles which are dropped from aircraft to provide brief, intense illumination for photography. They contain a photo-flash composition.

BOMBS with bursting charge: UN Nos. 0034; 0035

Explosive articles which are dropped from aircraft, without means of initiation or with means of initiation containing two or more effective protective features.

BOMBS with bursting charge: UN Nos. 0033, 0291

Explosive articles which are dropped from aircraft, with means of initiation not containing two or more effective protective features.

BOOSTERS WITH DETONATOR: UN Nos. 0225, 0268

Articles consisting of a charge of detonating explosive with means of initiation. They are used to increase the initiating power of detonators or detonating cord.

BOOSTERS without detonator: UN Nos. 0042, 0283

Articles consisting of a charge of detonating explosive without means of initiation. They are used to increase the initiating power of detonators or detonating cord.



BURSTERS, explosive: UN No. 0043

Articles consisting of a small charge of explosive used to open projectiles or other ammunition in order to disperse their contents.

CARTRIDGES, FLASH: UN Nos. 0049, 0050

Articles consisting of a casing, a primer and flash powder, all assembled in one piece ready for firing.

CARTRIDGES FOR WEAPONS, BLANK: UN Nos. 0326, 0413, 0327, 0338, 0014

Ammunition consisting of a closed cartridge case with a centre or rim fire primer and a charge of smokeless or black powder but no projectile. It produces a loud noise and is used for training, saluting, propelling charge, starter pistols, etc. The term includes ammunition, blank.

CARTRIDGES FOR WEAPONS, INERT PROJECTILE: UN Nos. 0328, 0417, 0339, 0012

Ammunition consisting of a projectile without bursting charge but with a propelling charge with or without a primer. The articles may include a tracer, provided that the predominant hazard is that of the propelling charge.

CARTRIDGES FOR WEAPONS with bursting charge: UN Nos. 0006, 0321, 0412

Ammunition consisting of a projectile with a bursting charge without means of initiation or with means of initiation containing two or more effective protective features; and a propelling charge with or without a primer. The term includes fixed (assembled) ammunition, semi-fixed (partially assembled) ammunition and separate loading ammunition when the components are packed together.

CARTRIDGES FOR WEAPONS with bursting charge: UN Nos. 0005, 0007, 0348

Ammunition consisting of a projectile with a bursting charge with means of initiation not containing two or more effective protective features; and a propelling charge with or without a primer. The term includes fixed (assembled) ammunition, semi-fixed (partially assembled) ammunition and separate loading ammunition when the components are packed together.

CARTRIDGES, OIL WELL: UN Nos. 0277, 0278

Articles consisting of a thin casing of fibreboard, metal or other material containing only propellant powder which projects a hardened projectile to perforate an oil well casing.

*NOTE: CHARGES, SHAPED are not included in this definition. They are listed separately.*

CARTRIDGES, POWER DEVICE: UN Nos. 0275, 0276, 0323, 0381

Articles designed to accomplish mechanical actions. They consist of a casing with a charge of deflagrating explosive and a means of ignition. The gaseous products of the deflagration produce inflation, linear or rotary motion or activate diaphragms, valves or switches or project fastening devices or extinguishing agents.

CARTRIDGES, SIGNAL: UN Nos. 0054, 0312, 0405

Articles designed to fire coloured flares or other signals from signal pistols, etc.

CARTRIDGES, SMALL ARMS: UN Nos. 0417, 0339, 0012

Ammunition consisting of a cartridge case fitted with a centre or rim fire primer and containing both a propelling charge and solid projectile. They are designed to be fired in weapons of calibre not larger than 19.1 mm. Shot-gun cartridges of any calibre are included in this description.

*NOTE: CARTRIDGES, SMALL ARMS, BLANK, are not included in this definition. They are listed separately. Some military small arms cartridges are not included in this definition. They are listed under CARTRIDGES FOR WEAPONS, INERT PROJECTILE.*

CARTRIDGES, SMALL ARMS, BLANK: UN Nos. 0014, 0327, 0338

Ammunition consisting of a closed cartridge case with a centre or rim fire primer and a charge of smokeless or black powder. The cartridge cases contain no projectiles. The cartridges are designed to be fired from weapons with a calibre of at most 19.1 mm and serve to produce a loud noise and are used for training, saluting, propelling charge, starter pistols, etc.

CASES, CARTRIDGE, EMPTY, WITH PRIMER: UN Nos. 0379; 0055

Articles consisting of a cartridge case made from metal, plastics or other non-inflammable material, in which the only explosive component is the primer.

CASES, COMBUSTIBLE, EMPTY, WITHOUT PRIMER: UN Nos. 0447, 0446

Articles consisting of a cartridge case made partly or entirely from nitrocellulose.

CHARGES, BURSTING, PLASTICS BONDED: UN Nos. 0457, 0458, 0459, 0460

Articles consisting of a charge of detonating explosive, plastics bonded, manufactured in a specific form without a casing and without means of initiation. They are designed as components of ammunition such as warheads.

CHARGES, DEMOLITION: UN No. 0048

Articles containing a charge of a detonating explosive in a casing of fibreboard, plastics, metal or other material. The articles are without means of initiation or with means of initiation containing two or more effective protective features.

*NOTE: The following articles: BOMBS; MINES; PROJECTILES are not included in this definition. They are listed separately.*

CHARGES, DEPTH: UN No. 0056

Articles consisting of a charge of detonating explosive contained in a drum or projectile without means of initiation or with means of initiation containing two or more effective protective features. They are designed to detonate under water.

CHARGES, EXPLOSIVE, COMMERCIAL without detonator: UN Nos. 0442, 0443, 0444, 0445

Articles consisting of a charge of detonating explosive without means of initiation, used for explosive welding, jointing, forming and other metallurgical processes.

CHARGES, PROPELLING, FOR CANNON: UN Nos. 0242, 0279, 0414

Charges of propellant in any physical form for separate-loading ammunition for cannon.

CHARGES, PROPELLING: UN Nos. 0271, 0272, 0415, 0491

Articles consisting of a charge of a propellant charge in any physical form, with or without a casing, as a component of rocket motors or for reducing the drag of projectiles.

CHARGES, SHAPED, without detonator: UN Nos. 0059, 0439, 0440, UN 0441

Articles consisting of a casing containing a charge of detonating explosive with a cavity lined with rigid material, without means of initiation. They are designed to produce a powerful, penetrating jet effect.

CHARGES, SHAPED, FLEXIBLE, LINEAR: UN Nos. 0237, 0288

Articles consisting of a V-shaped core of a detonating explosive clad by a flexible sheath.

CHARGES, SUPPLEMENTARY, EXPLOSIVE: UN No. 0060

Articles consisting of a small removable booster placed in the cavity of a projectile between the fuze and the bursting charge.

COMPONENTS, EXPLOSIVE TRAIN, N.O.S.: UN Nos. 0382, 0383, 0384, 0461

Articles containing an explosive designed to transmit detonation or deflagration within an explosive train.

CONTRIVANCES, WATER-ACTIVATED with burster, expelling charge or propelling charge: UN Nos. 0248, 0249

Articles whose functioning depends upon physico-chemical reaction of their contents with water.

CORD, DETONATING, flexible: UN Nos. 0065, 0289

Article consisting of a core of detonating explosive enclosed in spun fabric and a plastics or other covering. The covering is not necessary if the spun fabric is sift-proof.

CORD (FUSE) DETONATING, metal clad: UN Nos. 0102, 0290

Article consisting of a core of detonating explosive clad by a soft metal tube with or without protective covering.

CORD (FUSE) DETONATING, MILD EFFECT, metal clad: UN No. 0104

Article consisting of a core of detonating explosive clad by a soft metal tube with or without a protective covering. The quantity of explosive substance is so small that only a mild effect is manifested outside the cord.

CORD, IGNITER: UN No. 0066

Article consisting of textile yarns covered with black powder or another fast burning pyrotechnic composition and of a flexible protective covering; or it consists of a core of

black powder surrounded by a flexible woven fabric. It burns progressively along its length with an external flame and is used to transmit ignition from a device to a charge or primer.

CUTTERS, CABLE, EXPLOSIVE: UN No. 0070

Articles consisting of a knife-edged device which is driven by a small charge of deflagrating explosive into an anvil.

DETONATOR ASSEMBLIES, NON-ELECTRIC for blasting: UN Nos. 0360, 0361, 0500

Non-electric detonators assembled with and activated by such means as safety fuse, shock tube, flash tube or detonating cord. They may be of instantaneous design or incorporate delay elements. Detonating relays incorporating detonating cord are included.

DETONATORS, ELECTRIC for blasting: UN Nos. 0030, 0255, 0456

Articles specially designed for the initiation of blasting explosives. These detonators may be constructed to detonate instantaneously or may contain a delay element. Electric detonators are activated by an electric current.

DETONATORS FOR AMMUNITION: UN Nos. 0073, 0364, 0365, 0366

Articles consisting of a small metal or plastics tube containing explosives such as lead azide, PETN or combinations of explosives. They are designed to start a detonation train.

DETONATORS, NON-ELECTRIC for blasting: UN Nos. 0029, 0267, 0455

Articles specially designed for the initiation of blasting explosives. These detonators may be constructed to detonate instantaneously or may contain a delay element. Non-electric detonators are activated by such means as shock tube, flash tube, safety fuse, other igniferous device or flexible detonating cord. Detonating relays without detonating cord are included.

EXPLOSIVE, BLASTING, TYPE A: UN No. 0081

Substances consisting of liquid organic nitrates such as nitroglycerine or a mixture of such ingredients with one or more of the following: nitrocellulose; ammonium nitrate or other inorganic nitrates; aromatic nitro-derivatives, or combustible materials, such as wood-meal and aluminium powder. They may contain inert components such as kieselguhr, and additives such as colouring agents and stabilizers. Such explosives shall be in powdery, gelatinous or elastic form. The term includes dynamite; gelatine, blasting and gelatine dynamites.

EXPLOSIVE, BLASTING, TYPE B: UN Nos. 0082, 0331

Substances consisting of

- (a) a mixture of ammonium nitrate or other inorganic nitrates with an explosive such as trinitrotoluene, with or without other substances such as wood-meal and aluminium powder; or
- (b) a mixture of ammonium nitrate or other inorganic nitrates with other combustible substances which are not explosive ingredients. In both cases they may contain inert components such as kieselguhr, and additives such as colouring agents and stabilizers. Such explosives must not contain nitroglycerine, similar liquid organic nitrates or chlorates.

EXPLOSIVE, BLASTING, TYPE C: UN No. 0083

Substances consisting of a mixture of either potassium or sodium chlorate or potassium, sodium or ammonium perchlorate with organic nitro-derivatives or combustible materials such as wood-meal or aluminium powder or a hydrocarbon. They may contain inert components such as kieselguhr and additives such as colouring agents and stabilizers. Such explosives must not contain nitroglycerine or similar liquid organic nitrates.

EXPLOSIVE, BLASTING, TYPE D: UN No. 0084

Substances consisting of a mixture of organic nitrated compounds and combustible materials such as hydrocarbons and aluminium powder. They may contain inert components such as kieselguhr and additives such as colouring agents and stabilizers. Such explosives must not contain nitroglycerine, similar liquid organic nitrates, chlorates and ammonium nitrate. The term generally includes plastic explosives.

EXPLOSIVES, BLASTING, TYPE E: UN Nos. 0241, 0332

Substances consisting of water as an essential ingredient and high proportions of ammonium nitrate or other oxidizers, some or all of which are in solution. The other constituents may include nitro-derivatives such as trinitrotoluene, hydrocarbons or aluminium powder. They may contain inert components such as kieselguhr and additives such as colouring agents and stabilizers. The term includes explosives, emulsion, explosives, slurry and explosives, watergel.

FIREWORKS: UN Nos. 0333, 0334, 0335, 0336, 0337

Pyrotechnic articles designed for entertainment.

FLARES, AERIAL: UN Nos. 0093, 0403, 0404, 0420, 0421;

Articles containing pyrotechnic substances which are designed to be dropped from an aircraft to illuminate, identify, signal or warn.

FLARES, SURFACE: UN Nos. 0092, 0418, 0419

Articles containing pyrotechnic substances which are designed for use on the surface to illuminate, identify, signal or warn.

FLASH POWDER: UN Nos. 0094, 0305

Pyrotechnic substance which, when ignited, produces an intense light.

FRACTURING DEVICES, EXPLOSIVE without detonator, for oil wells: UN No. 0099

Articles consisting of a charge of detonating explosive contained in a casing without means of initiation. They are used to fracture the rock around a drill shaft to assist the flow of crude oil from the rock.

FUSE, IGNITER, tubular, metal clad: UN No. 0103

Article consisting of a metal tube with a core of deflagrating explosive.

FUSE, NON-DETONATING: UN No. 0101

Article consisting of cotton yarns impregnated with fine black powder (quickmatch). It burns with an external flame and is used in ignition trains for fireworks, etc.

FUSE, SAFETY: UN No. 0105

Article consisting of a core of fine grained black powder surrounded by a flexible woven fabric with one or more protective outer coverings. When ignited, it burns at a predetermined rate without any external explosive effect.

FUZES, DETONATING: UN Nos. 0106, 0107, 0257, 0367

Articles with explosive components designed to produce a detonation in ammunition. They incorporate mechanical, electrical, chemical or hydrostatic components to initiate the detonation. They generally incorporate protective features.

FUZES, DETONATING with protective features: UN Nos. 0408, 0409, 0410

Articles with explosive components designed to produce a detonation in ammunition. They incorporate mechanical, electrical, chemical or hydrostatic components to initiate the detonation. The detonating fuze must incorporate two or more effective protective features.

FUZES, IGNITING: UN Nos. 0316, 0317, 0368

Articles with primary explosive components designed to produce a deflagration in ammunition. They incorporate mechanical, electrical, chemical or hydrostatic components to start the deflagration. They generally incorporate protective features.

GRENADES, hand or rifle, with bursting charge: UN Nos. 0284, 0285

Articles which are designed to be thrown by hand or to be projected by a rifle. They are without means of initiation or with means of initiation containing two or more effective protective features.

GRENADES, hand or rifle, with bursting charge: UN Nos. 0292, 0293

Articles which are designed to be thrown by hand or to be projected by a rifle. They are with means of initiation not containing two or more effective protective features.

GRENADES, PRACTICE, hand or rifle: UN Nos. 0110, 0372, 0318, 0452

Articles without a main bursting charge which are designed to be thrown by hand or to be projected by a rifle. They contain the priming device and may contain a spotting charge.

HEXOTONAL: UN No. 0393

Substance consisting of an intimate mixture of cyclotrimethylenetrinitramine (RDX), trinitrotoluene (TNT) and aluminium.

HEXOLITE (HEXOTOL), dry or wetted with less than 15 % water, by mass: UN No. 0118

Substance consisting of an intimate mixture of cyclotrimethylenetrinitramine (RDX) and trinitrotoluene (TNT). The term includes "Composition B".

IGNITERS: UN Nos. 0121, 0314, 0315, 0325, 0454

Articles containing one or more explosive substances designed to produce a deflagration in an explosive train. They may be actuated chemically, electrically or mechanically.

*NOTE: The following articles: CORD, IGNITER; FUSE, IGNITER; FUSE, NON-DETONATING; FUZES, IGNITING; LIGHTERS, FUSE; PRIMERS, CAP TYPE; PRIMERS, TUBULAR are not included in this definition. They are listed separately.*

JET PERFORATING GUNS, CHARGED, oil well, without detonator: UN Nos. 0124, 0494

Articles consisting of a steel tube or metallic strip, into which are inserted shaped charges connected by detonating cord, without means of initiation.

LIGHTERS, FUSE: UN No. 0131

Articles of various design actuated by friction, percussion or electricity and used to ignite safety fuse.

MINES with bursting charge: UN Nos. 0137, 0138

Articles consisting normally of metal or composition receptacles filled with a detonating explosive, without means of initiation or with means of initiation containing two or more effective protective features. They are designed to be operated by the passage of ships, vehicles or personnel. The term includes "Bangalore torpedoes".

MINES with bursting charge: UN Nos. 0136, 0294

Articles consisting normally of metal or composition receptacles filled with a detonating explosive, with means of initiation not containing two or more effective protective features. They are designed to be operated by the passage of ships, vehicles or personnel. The term includes "Bangalore torpedoes".

OCTOLITE (OCTOL), dry or wetted with less than 15 % water, by mass: UN No. 0266

Substance consisting of an intimate mixture of cyclotetramethylenetetranitramine (HMX) and trinitrotoluene (TNT).

OCTONAL: UN No. 0496

Substance consisting of an intimate mixture of cyclotetramethylenetetranitramine (HMX), trinitrotoluene (TNT) and aluminium.

PENTOLITE, dry or wetted with less than 15 % water, by mass: UN No. 0151

Substance consisting of an intimate mixture of pentaerythrite tetranitrate (PETN) and trinitrotoluene (TNT).

POWDER CAKE (POWDER PASTE), WETTED with not less than 17 % alcohol, by mass;  
POWDER CAKE (POWDER PASTE), WETTED with not less than 25 % water, by mass:  
UN Nos. 0433, 0159

Substance consisting of nitrocellulose impregnated with not more than 60 % of nitroglycerine or other liquid organic nitrates or a mixture of these.

POWDER, SMOKELESS: UN Nos. 0160, 0161

Substance based on nitrocellulose used as propellant. The term includes propellants with a single base (nitrocellulose (NC) alone), those with a double base (such as NC and nitroglycerine (NG)) and those with a triple base (such as NC/NG/nitroguanidine).

***NOTE:** Cast, pressed or bag-charges of smokeless powder are listed under CHARGES, PROPELLING or CHARGES, PROPELLING, FOR CANON.*

PRIMERS, CAP TYPE: UN Nos. 0044, 0377, 0378

Articles consisting of a metal or plastics cap containing a small amount of primary explosive mixture that is readily ignited by impact. They serve as igniting elements in small arms cartridges and in percussion primers for propelling charges.

PRIMERS, TUBULAR: UN Nos. 0319, 0320, 0376

Articles consisting of a primer for ignition and an auxiliary charge of deflagrating explosive such as black powder used to ignite the propelling charge in a cartridge case for cannon, etc.

PROJECTILES, inert with tracer: UN Nos. 0345, 0424, 0425

Articles such as a shell or bullet, which are projected from a cannon or other gun, rifle or other small arm.

PROJECTILES with burster or expelling charge: UN Nos. 0346, 0347

Articles such as a shell or bullet, which are projected from a cannon or other gun. They are without means of initiation or with means of initiation containing two or more effective protective features. They are used to scatter dyes for spotting or other inert materials.

PROJECTILES with burster or expelling charge: UN Nos. 0426, 0427

Articles such as a shell or bullet, which are projected from a cannon or other gun. They are with means of initiation not containing two or more effective protective features. They are used to scatter dyes for spotting or other inert materials.

PROJECTILES with burster or expelling charge: UN Nos. 0434, 0435

Articles such as a shell or bullet, which are projected from a cannon or other gun, rifle or other small arm. They are used to scatter dyes for spotting or other inert materials.

PROJECTILES with bursting charge: UN Nos. 0168, 0169, 0344

Articles such as a shell or bullet, which are projected from a cannon or other gun. They are without means of initiation or with means of initiation containing two or more effective protective features.

PROJECTILES with bursting charge: UN Nos. 0167, 0324

Articles such as a shell or bullet, which are projected from a cannon or other gun. They are with means of initiation not containing two or more effective protective features.

PROPELLANT, LIQUID: UN Nos. 0495, 0497

Substance consisting of a deflagrating liquid explosive, used for propulsion.



PROPELLANT, SOLID: UN Nos. 0498, 0499, 0501

Substance consisting of a deflagrating solid explosive, used for propulsion.

RELEASE DEVICES, EXPLOSIVE: UN No. 0173

Articles consisting of a small charge of explosive with means of initiation and rods or links. They sever the rods or links to release equipment quickly.

RIVETS, EXPLOSIVE: UN No. 0174

Articles consisting of a small charge of explosive inside a metallic rivet.

ROCKET MOTORS: UN Nos. 0186, 0280, 0281

Articles consisting of a charge of explosive, generally a solid propellant, contained in a cylinder fitted with one or more nozzles. They are designed to propel a rocket or a guided missile.

ROCKET MOTORS, LIQUID FUELLED: UN Nos. 0395, 0396

Articles consisting of a liquid fuel within a cylinder fitted with one or more nozzles. They are designed to propel a rocket or a guided missile.

ROCKET MOTORS WITH HYPERGOLIC LIQUIDS with or without expelling charge: UN Nos. 0322, 0250

Articles consisting of a hypergolic fuel contained in a cylinder fitted with one or more nozzles. They are designed to propel a rocket or a guided missile.

ROCKETS, LINE THROWING: UN Nos. 0238, 0240, 0453

Articles consisting of a rocket motor which is designed to extend a line.

ROCKETS, LIQUID FUELLED with bursting charge: UN Nos. 0397, 0398

Articles consisting of a liquid fuel within a cylinder fitted with one or more nozzles and fitted with a warhead. The term includes guided missiles.

ROCKETS with bursting charge: UN Nos. 0181, 0182

Articles consisting of a rocket motor and a warhead without means of initiation or with means of initiation containing two or more effective protective features. The term includes guided missiles.

ROCKETS with bursting charge: UN Nos. 0180, 0295

Articles consisting of a rocket motor and a warhead with means of initiation not containing two or more effective protective features. The term includes guided missiles.

ROCKETS with expelling charge: UN Nos. 0436, 0437, 0438

Articles consisting of a rocket motor and a charge to expel the payload from a rocket head. The term includes guided missiles.

ROCKETS with inert head: UN Nos. 0183, 0502

Articles consisting of a rocket motor and an inert head. The term includes guided missiles.

SAMPLES, EXPLOSIVE, other than initiating explosive UN No. 0190

New or existing explosive substances or articles, not yet assigned to a name in Table A of Chapter 3.2 and carried in conformity with the instructions of the competent authority and generally in small quantities, *inter alia*, for the purposes of testing, classification, research and development, or quality control, or as commercial samples.

*NOTE: Explosive substances or articles already assigned to another name in Table A of Chapter 3.2 are not included in this definition.*

SIGNAL DEVICES, HAND: UN Nos. 0191, 0373

Portable articles containing pyrotechnic substances which produce visual signals or warnings. The term includes small surface flares such as highway or railway flares and small distress flares.

SIGNALS, DISTRESS, ship: UN Nos. 0194, 0195, 0505, 0506

Articles containing pyrotechnic substances designed to produce signals by means of sound, flame or smoke or any combination thereof.

SIGNALS, RAILWAY TRACK, EXPLOSIVE: UN Nos. 0192, 0193, 0492, 0493

Articles containing a pyrotechnic substance which explodes with a loud report when the article is crushed. They are designed to be placed on a rail.

SIGNALS, SMOKE: UN Nos. 0196, 0197, 0313, 0487, 0507

Articles containing pyrotechnic substances which emit smoke. In addition they may contain devices for emitting audible signals.

SOUNDING DEVICES, EXPLOSIVE: UN Nos. 0374, 0375

Articles consisting of a charge of detonating explosive, without means of initiation or with means of initiation containing two or more effective protective features. They are dropped from ships and function when they reach a predetermined depth or the sea bed.

SOUNDING DEVICES, EXPLOSIVE: UN Nos. 0204, 0296

Articles consisting of a charge of detonating explosive with means of initiation not containing two or more effective protective features. They are dropped from ships and function when they reach a predetermined depth or the sea bed.

SUBSTANCES, EXPLOSIVE, VERY INSENSITIVE (Substances, EVI), N.O.S.: UN No. 0482

Substances presenting a mass explosion hazard but which are so insensitive that there is very little probability of initiation or of transition from burning to detonation under normal conditions of transport, and which have passed Test Series 5.

TORPEDOES, LIQUID FUELLED with inert head: UN No. 0450

Articles consisting of a liquid explosive system to propel the torpedo through the water, with an inert head.

TORPEDOES, LIQUID FUELLED with or without bursting charge: UN No. 0449

Articles consisting of either a liquid explosive system to propel the torpedo through the water, with or without a warhead; or a liquid non-explosive system to propel the torpedo through the water, with a warhead.

TORPEDOES with bursting charge: UN No. 0451

Articles consisting of a non-explosive system to propel the torpedo through the water, and a warhead without means of initiation or with means of initiation containing two or more effective protective features.

TORPEDOES with bursting charge: UN No. 0329

Articles consisting of an explosive system to propel the torpedo through the water, and a warhead without means of initiation or with means of initiation containing two or more effective protective features.

TORPEDOES with bursting charge: UN No. 0330

Articles consisting of an explosive or non-explosive system to propel the torpedo through the water, and a warhead with means of initiation not containing two or more effective protective features.

TRACERS FOR AMMUNITION: UN Nos. 0212, 0306

Sealed articles containing pyrotechnic substances, designed to reveal the trajectory of a projectile.

TRITONAL: UN No. 0390

Substance consisting of trinitrotoluene (TNT) mixed with aluminium.

WARHEADS, ROCKET with burster or expelling charge: UN No. 0370

Articles consisting of an inert payload and a small charge of detonating or deflagrating explosive, without means of initiation or with means of initiation containing two or more effective protective features. They are designed to be fitted to a rocket motor to scatter inert material. The term includes warheads for guided missiles.

WARHEADS, ROCKET with burster or expelling charge: UN No. 0371

Articles consisting of an inert payload and a small charge of detonating or deflagrating explosive, with means of initiation not containing two or more effective protective features. They are designed to be fitted to a rocket motor to scatter inert material. The term includes warheads for guided missiles.

WARHEADS, ROCKET with bursting charge: UN Nos. 0286, 0287

Articles consisting of a detonating explosive, without means of initiation or with means of initiation containing two or more effective protective features. They are designed to be fitted to a rocket. The term includes warheads for guided missiles.

WARHEADS, ROCKET with bursting charge: UN No. 0369

Articles consisting of a detonating explosive, with means of initiation not containing two or more effective protective features. They are designed to be fitted to a rocket. The term includes warheads for guided missiles.

WARHEADS, TORPEDO with bursting charge: UN No. 0221

Articles consisting of a detonating explosive, without means of initiation or with means of initiation containing two or more effective protective features. They are designed to be fitted to a torpedo.

**2.2.1.2**      ***Substances and articles not accepted for carriage***

2.2.1.2.1      Explosive substances which are unduly sensitive according to the criteria of the Manual of Tests and Criteria, Part I, or are liable to spontaneous reaction, as well as explosive substances and articles which cannot be assigned to a name or n.o.s. entry listed in Table A of Chapter 3.2, shall not be accepted for carriage.

2.2.1.2.2      Articles of compatibility group K shall not be accepted for carriage (1.2K, UN No. 0020 and 1.3K, UN No. 0021).

2.2.1.3 *List of collective entries*

| <b>Classification code<br/>(see 2.2.1.1.4)</b> | <b>UN<br/>No</b>                     | <b>Name of the substance or article</b>   |
|--|--------------------------------------|---|
| <b>1.1A</b>                                    | 0473                                 | SUBSTANCES, EXPLOSIVE, N.O.S.   |
| <b>1.1B</b>                                    | 0461                                 | COMPONENTS, EXPLOSIVE TRAIN, N.O.S.   |
| <b>1.1C</b>                                    | 0474<br>0497<br>0498<br>0462         | SUBSTANCES, EXPLOSIVE, N.O.S.<br>PROPELLANT, LIQUID<br>PROPELLANT, SOLID<br>ARTICLES, EXPLOSIVE, N.O.S.   |
| <b>1.1D</b>                                    | 0475<br>0463                         | SUBSTANCES, EXPLOSIVE, N.O.S.<br>ARTICLES, EXPLOSIVE, N.O.S.  |
| <b>1.1E</b>                                    | 0464                                 | ARTICLES, EXPLOSIVE, N.O.S.   |
| <b>1.1F</b>                                    | 0465                                 | ARTICLES, EXPLOSIVE, N.O.S.   |
| <b>1.1G</b>                                    | 0476                                 | SUBSTANCES, EXPLOSIVE, N.O.S.   |
| <b>1.1L</b>                                    | 0357<br>0354                         | SUBSTANCES, EXPLOSIVE, N.O.S.<br>ARTICLES, EXPLOSIVE, N.O.S.  |
| <b>1.2B</b>                                    | 0382                                 | COMPONENTS, EXPLOSIVE TRAIN, N.O.S.   |
| <b>1.2C</b>                                    | 0466                                 | ARTICLES, EXPLOSIVE, N.O.S.   |
| <b>1.2D</b>                                    | 0467                                 | ARTICLES, EXPLOSIVE, N.O.S.   |
| <b>1.2E</b>                                    | 0468                                 | ARTICLES, EXPLOSIVE, N.O.S.   |
| <b>1.2F</b>                                    | 0469                                 | ARTICLES, EXPLOSIVE, N.O.S.   |
| <b>1.2L</b>                                    | 0358<br>0248<br>0355                 | SUBSTANCES, EXPLOSIVE, N.O.S.<br>CONTRIVANCES, WATER-ACTIVATED<br>with burster, expelling charge or propelling charge<br>ARTICLES, EXPLOSIVE, N.O.S.                          |
| <b>1.3C</b>                                    | 0132<br>0477<br>0495<br>0499<br>0470 | DEFLAGRATING METAL SALTS OF AROMATIC NITRO-<br>DERIVATIVES, N.O.S.<br>SUBSTANCES, EXPLOSIVE, N.O.S.<br>PROPELLANT, LIQUID<br>PROPELLANT, SOLID<br>ARTICLES, EXPLOSIVE, N.O.S. |
| <b>1.3G</b>                                    | 0478                                 | SUBSTANCES, EXPLOSIVE, N.O.S.   |
| <b>1.3L</b>                                    | 0359<br>0249<br>0356                 | SUBSTANCES, EXPLOSIVE, N.O.S.<br>CONTRIVANCES, WATER-ACTIVATED<br>with burster, expelling charge or propelling charge<br>ARTICLES, EXPLOSIVE, N.O.S.                          |
| <b>1.4B</b>                                    | 0350<br>0383                         | ARTICLES, EXPLOSIVE, N.O.S.<br>COMPONENTS, EXPLOSIVE TRAIN, N.O.S.  |
| <b>1.4C</b>                                    | 0479<br>0351<br>0501                 | SUBSTANCES, EXPLOSIVE, N.O.S.<br>ARTICLES, EXPLOSIVE, N.O.S.<br>PROPELLANT, SOLID   |
| <b>1.4D</b>                                    | 0480<br>0352                         | SUBSTANCES, EXPLOSIVE, N.O.S.<br>ARTICLES, EXPLOSIVE, N.O.S.  |
| <b>1.4E</b>                                    | 0471                                 | ARTICLES, EXPLOSIVE, N.O.S.   |
| <b>1.4F</b>                                    | 0472                                 | ARTICLES, EXPLOSIVE, N.O.S.   |
| <b>1.4G</b>                                    | 0485<br>0353                         | SUBSTANCES, EXPLOSIVE, N.O.S.<br>ARTICLES, EXPLOSIVE, N.O.S.  |
| <b>1.4S</b>                                    | 0481<br>0349<br>0384                 | SUBSTANCES, EXPLOSIVE, N.O.S.<br>ARTICLES, EXPLOSIVE, N.O.S.<br>COMPONENTS, EXPLOSIVE TRAIN, N.O.S.   |
| <b>1.5D</b>                                    | 0482                                 | SUBSTANCES, EXPLOSIVE, VERY INSENSITIVE<br>(SUBSTANCES, EVI) N.O.S.   |

| <b>Classification code<br/>(see 2.2.1.1.4)</b> | <b>UN<br/>No</b> | <b>Name of the substance or article</b>  |
|--|------------------|--|
| <b>1.6N</b>                                    | 0486             | ARTICLES, EXPLOSIVE, EXTREMELY INSENSITIVE<br>(ARTICLES, EEI)  |
|  | 0190             | SAMPLES, EXPLOSIVE other than initiating explosive<br><i><b>NOTE:</b> Division and Compatibility Group shall be defined as directed<br/>by the competent authority and according to the principles in 2.2.1.1.4.</i> |

**2.2.2 Class 2 Gases**

**2.2.2.1 Criteria**

2.2.2.1.1 The heading of Class 2 covers pure gases, mixtures of gases, mixtures of one or more gases with one or more other substances and articles containing such substances.

A gas is a substance which:

- (a) at 50 °C has a vapour pressure greater than 300 kPa (3 bar); or
- (b) is completely gaseous at 20° C at the standard pressure of 101.3 kPa .

**NOTE 1:** *UN No. 1052 HYDROGEN FLUORIDE, ANHYDROUS is nevertheless classified in Class 8.*

**NOTE 2:** *A pure gas may contain other components deriving from its production process or added to preserve the stability of the product, provided that the level of these components does not change its classification or its conditions of carriage, such as filling ratio, filling pressure, test pressure.*

**NOTE 3:** *N.O.S. entries in 2.2.2.3 may cover pure gases as well as mixtures.*

**NOTE 4:** *Carbonated beverages are not subject to the provisions of ADN.*

2.2.2.1.2 The substances and articles of Class 2 are subdivided as follows:

1. *Compressed gas:* a gas which when packaged under pressure for carriage is entirely gaseous at -50 °C; this category includes all gases with a critical temperature less than or equal to -50 °C;
2. *Liquefied gas:* a gas which when packaged under pressure for carriage is partially liquid at temperatures above -50 °C. A distinction is made between:

*High pressure liquefied gas:* a gas with a critical temperature above -50 °C and equal to or below +65 °C; and

*Low pressure liquefied gas:* a gas with a critical temperature above +65 °C;

3. *Refrigerated liquefied gas:* a gas which when packaged for carriage is made partially liquid because of its low temperature;
4. *Dissolved gas:* a gas which when packaged under pressure for carriage is dissolved in a liquid phase solvent;
5. Aerosol dispensers and receptacles, small, containing gas (gas cartridges);
6. Other articles containing gas under pressure;
7. Non-pressurized gases subject to special requirements (gas samples).

2.2.2.1.3 Substances and articles (except aerosols) of Class 2 are assigned to one of the following groups according to their hazardous properties, as follows:

A asphyxiant;

- O oxidizing;
- F flammable;
- T toxic;
- TF toxic, flammable;
- TC toxic, corrosive;
- TO toxic, oxidizing;
- TFC toxic, flammable, corrosive;
- TOC toxic, oxidizing, corrosive.

For gases and gas mixtures presenting hazardous properties associated with more than one group according to the criteria, the groups designated by letter T take precedence over all other groups. The groups designated by letter F take precedence over the groups designated by letters A or O.

**NOTE 1:** *In the UN Model Regulations, the IMDG Code and the ICAO Technical Instructions, gases are assigned to one of the following three divisions, based on the primary hazard:*

*Division 2.1: flammable gases (corresponding to the groups designated by the capital letter F);*

*Division 2.2: non-flammable, non-toxic gases (corresponding to the groups designated by the capital letters A or O);*

*Division 2.3: toxic gases (corresponding to the groups designated by the capital letter T (i.e. T, TF, TC, TO, TFC and TOC)).*

**NOTE 2:** *Receptacles, small containing gas (UN No. 2037) shall be assigned to the groups A to TOC according to the hazard of the contents. For aerosols (UN No. 1950), see 2.2.2.1.6.*

**NOTE 3:** *Corrosive gases are considered to be toxic, and are therefore assigned to the group TC, TFC or TOC.*

**NOTE 4:** *Mixtures containing more than 21% oxygen by volume shall be classified as oxidizing.*

2.2.2.1.4 If a mixture of Class 2 mentioned by name in Table A of Chapter 3.2 meets different criteria as mentioned in 2.2.2.1.2 and 2.2.2.1.5, this mixture shall be classified according to the criteria and assigned to an appropriate N.O.S. entry.

2.2.2.1.5 Substances and articles (except aerosols) of Class 2 which are not mentioned by name in Table A of Chapter 3.2 shall be classified under a collective entry listed in 2.2.2.3 in accordance with 2.2.2.1.2 and 2.2.2.1.3. The following criteria shall apply:

***Asphyxiant gases***

Gases which are non-oxidizing, non-flammable and non-toxic and which dilute or replace oxygen normally in the atmosphere.



**Flammable gases**

Gases which at 20 °C and a standard pressure of 101.3 kPa:

- (a) are ignitable when in a mixture of 13% or less by volume with air; or
- (b) have a flammable range with air of at least 12 percentage points regardless of the lower flammable limit.

Flammability shall be determined by tests or by calculation, in accordance with methods adopted by ISO (see ISO 10156:1996).

Where insufficient data are available to use these methods, tests by a comparable method recognized by the competent authority of the country of origin may be used.

If the country of origin is not a Contracting Party to ADN these methods shall be recognized by the competent authority of the first country Contracting Party to ADN reached by the consignment.

**Oxidizing gases**

Gases, which may, generally by providing oxygen, cause or contribute to the combustion of other material more than air does. Oxidizing ability is determined either by tests or by calculation methods adopted by ISO (see ISO 10156:1996 and ISO 10156-2:2005).

**Toxic gases**

*NOTE: Gases meeting the criteria for toxicity in part or completely owing to their corrosivity are to be classified as toxic. See also the criteria under the heading "Corrosive gases" for a possible subsidiary corrosivity risk.*

Gases which:

- (a) are known to be so toxic or corrosive to humans as to pose a hazard to health; or
- (b) are presumed to be toxic or corrosive to humans because they have a LC<sub>50</sub> value for acute toxicity equal to or less than 5 000 ml/m<sup>3</sup> (ppm) when tested in accordance with 2.2.61.1.

In the case of gas mixtures (including vapours of substances from other classes) the following formula may be used:

$$LC_{50} \text{ Toxic (mixture)} = \frac{1}{\sum_{i=1}^n \frac{f_i}{T_i}}$$

where  $f_i$  = mole fraction of the  $i^{\text{th}}$  component substance of the mixture;

$T_i$  = toxicity index of the  $i^{\text{th}}$  component substance of the mixture.  
The  $T_i$  equals the LC<sub>50</sub> value as found in packing instruction P200 of 4.1.4.1 of ADR.

When no LC<sub>50</sub> value is listed in packing instruction P200 of 4.1.4.1 of ADR, a LC<sub>50</sub> value available in scientific literature shall be used.

When the LC<sub>50</sub> value is unknown, the toxicity index is determined by using the lowest LC<sub>50</sub> value of substances of similar physiological and chemical effects, or through testing if this is the only practical possibility.

### ***Corrosive gases***

Gases or gas mixtures meeting the criteria for toxicity completely owing to their corrosivity are to be classified as toxic with a subsidiary corrosivity risk.

A gas mixture that is considered to be toxic due to the combined effects of corrosivity and toxicity has a subsidiary risk of corrosivity when the mixture is known by human experience to be destructive to the skin, eyes or mucous membranes or when the LC<sub>50</sub> value of the corrosive components of the mixture is equal to or less than 5 000 ml/m<sup>3</sup> (ppm) when the LC<sub>50</sub> is calculated by the formula:

$$LC_{50} \text{ Corrosive (mixture)} = \frac{1}{\sum_{i=1}^n \frac{f_{ci}}{T_{ci}}}$$

where  $f_{ci}$  = mole fraction of the  $i^{\text{th}}$  corrosive component substance of the mixture;

$T_{ci}$  = toxicity index of the  $i^{\text{th}}$  corrosive component substance of the mixture.

The  $T_{ci}$  equals the LC<sub>50</sub> value as found in packing instruction P200 of 4.1.4.1 of ADR.

When no LC<sub>50</sub> value is listed in packing instruction P200 of 4.1.4.1 of ADR, a LC<sub>50</sub> value available in scientific literature shall be used. When the LC<sub>50</sub> value is unknown the toxicity index is determined by using the lowest LC<sub>50</sub> value of substances of similar physiological and chemical effects, or through testing if this is the only practical possibility.

### 2.2.2.1.6 *Aerosols*

Aerosols (UN No. 1950) are assigned to one of the following groups according to their hazardous properties, as follows:

- A asphyxiant;
- O oxidizing;
- F flammable;
- T toxic;
- C corrosive;
- CO corrosive, oxidizing;
- FC flammable, corrosive;
- TF toxic, flammable;

|     |                              |
|-----|------------------------------|
| TC  | toxic, corrosive;            |
| TO  | toxic, oxidizing;            |
| TFC | toxic, flammable, corrosive  |
| TOC | toxic, oxidizing, corrosive. |

The classification depends on the nature of the contents of the aerosol dispenser.

**NOTE:** *Gases, which meet the definition of toxic gases according to 2.2.2.1.5 or of pyrophoric gases according to packing instruction P200 in 4.1.4.1 of ADR, shall not be used as a propellant in an aerosol dispenser. Aerosols with contents meeting the criteria for packing group I for toxicity or corrosivity shall not be accepted for carriage (see also 2.2.2.2.2).*

The following criteria shall apply:

- (a) Assignment to group A shall apply when the contents do not meet the criteria for any other group according to sub-paragraphs (b) to (f) below;
- (b) Assignment to group O shall apply when the aerosol contains an oxidizing gas according to 2.2.2.1.5;
- (c) Assignment to group F shall apply if the contents include 85% by mass or more flammable components and the chemical heat of combustion is 30 kJ/g or more.

It shall not apply if the contents contain 1% by mass or less flammable components and the heat of combustion is less than 20 kJ/g.

Otherwise the aerosol shall be tested for flammability in accordance with the tests described in the *Manual of Tests and Criteria*, Part III, section 31. Extremely flammable and flammable aerosols shall be assigned to group F;

**NOTE:** *Flammable components are flammable liquids, flammable solids or flammable gases and gas mixtures as defined in Notes 1 to 3 of sub-section 31.1.3 of Part III of the Manual of Tests and Criteria. This designation does not cover pyrophoric, self-heating or water-reactive substances. The chemical heat of combustion shall be determined by one of the following methods ASTM D 240, ISO/FDIS 13943: 1999 (E/F) 86.1 to 86.3 or NFPA 30B.*

- (d) Assignment to group T shall apply when the contents, other than the propellant of aerosol dispensers to be ejected, are classified as Class 6.1, packing groups II or III;
- (e) Assignment to group C shall apply when the contents, other than the propellant of aerosol dispensers to be ejected, meet the criteria for Class 8, packing groups II or III;
- (f) When the criteria for more than one group amongst groups O, F, T, and C are met, assignment to groups CO, FC, TF, TC TO, TFC or TOC shall apply, as relevant.

## **2.2.2.2 Gases not accepted for carriage**

- 2.2.2.2.1 Chemically unstable substances of Class 2 shall not be accepted for carriage, unless the necessary steps have been taken to prevent all possibility of a dangerous reaction e.g. decomposition, dismutation or polymerisation under normal conditions during transport.

To this end particular care shall be taken to ensure that receptacles and tanks do not contain any substances liable to promote these reactions.

2.2.2.2.2 The following substances and mixtures shall not be accepted for carriage:

- UN No. 2186 HYDROGEN CHLORIDE, REFRIGERATED LIQUID;
- UN No. 2421 NITROGEN TRIOXIDE;
- UN No. 2455 METHYL NITRITE;
- Refrigerated liquefied gases which cannot be assigned to classification codes 3A, 3O or 3F;
- Dissolved gases which cannot be classified under UN Nos. 1001, 2073 or 3318;
- Aerosols where gases which are toxic according to 2.2.2.1.5 or pyrophoric according to packing instruction P200 in 4.1.4.1 of ADR are used as propellants;
- Aerosols with contents meeting the criteria for packing group I for toxicity or corrosivity (see 2.2.61 and 2.2.8);
- Receptacles, small, containing gases which are very toxic (LC<sub>50</sub> lower than 200 ppm) or pyrophoric according to packing instruction P200 in 4.1.4.1 of ADR.

2.2.2.3 *List of collective entries*

| Compressed gases    |       |   |
|---------------------|-------|---|
| Classification code | UN No | Name and description                                |
| 1 A                 | 1956  | COMPRESSED GAS, N.O.S.                              |
| 1 O                 | 3156  | COMPRESSED GAS, OXIDIZING, N.O.S.                   |
| 1 F                 | 1964  | HYDROCARBON GAS MIXTURE, COMPRESSED, N.O.S.         |
|                     | 1954  | COMPRESSED GAS, FLAMMABLE, N.O.S.                   |
| 1 T                 | 1955  | COMPRESSED GAS, TOXIC, N.O.S.                       |
| 1 TF                | 1953  | COMPRESSED GAS, TOXIC, FLAMMABLE, N.O.S.            |
| 1 TC                | 3304  | COMPRESSED GAS, TOXIC, CORROSIVE, N.O.S.            |
| 1 TO                | 3303  | COMPRESSED GAS, TOXIC, OXIDIZING, N.O.S.            |
| 1 TFC               | 3305  | COMPRESSED GAS, TOXIC, FLAMMABLE, CORROSIVE, N.O.S. |
| 1 TOC               | 3306  | COMPRESSED GAS, TOXIC, OXIDIZING, CORROSIVE, N.O.S. |

| Liquefied gases     |       |   |
|---------------------|-------|---|
| Classification code | UN No | Name and description  |
| 2 A                 | 1058  | LIQUEFIED GASES, non-flammable, charged with nitrogen, carbon dioxide or air  |
|                     | 1078  | REFRIGERANT GAS, N.O.S.<br>such as mixtures of gases, indicated by the letter R, which as:<br><br>Mixture F1, have a vapour pressure at 70 °C not exceeding 1.3 MPa (13 bar) and a density at 50 °C not lower than that of dichlorofluoromethane (1.30 kg/l);<br><br>Mixture F2, have a vapour pressure at 70 °C not exceeding 1.9 MPa (19 bar) and a density at 50 °C not lower than that of dichlorodifluoromethane (1.21 kg/l);<br><br>Mixture F3, have a vapour pressure at 70 °C not exceeding 3 MPa (30 bar) and a density at 50 °C not lower than that of chlorodifluoromethane (1.09 kg/l).<br><br><i>NOTE: Trichlorofluoromethane (Refrigerant R 11), 1,1,2-trichloro-1,2,2-trifluoroethane (Refrigerant R 113), 1,1,1-trichloro-2,2,2-trifluoroethane (Refrigerant R 113a), 1-chloro-1,2,2-trifluoroethane (Refrigerant R 133) and 1-chloro-1,1,2-trifluoroethane (Refrigerant R 133b) are not substances of Class 2. They may, however, enter into the composition of mixtures F1 to F3.</i> |
|                     | 1968  | INSECTICIDE GAS, N.O.S.   |
|                     | 3163  | LIQUEFIED GAS, N.O.S.   |
| 2 O                 | 3157  | LIQUEFIED GAS, OXIDIZING, N.O.S.  |

| <b>Liquefied gases (cont'd)</b> |              |  |
|---------------------------------|--------------|--|
| <b>Classification code</b>      | <b>UN No</b> | <b>Name and description</b>  |
| <b>2 F</b>                      | 1010         | BUTADIENES AND HYDROCARBON MIXTURE, STABILIZED, having a vapour pressure at 70 °C not exceeding 1.1 MPa (11 bar) and a density at 50 °C not lower than 0.525 kg/l.<br><br><i>NOTE: Butadienes, stabilized are also classified under UN No. 1010, see Table A of Chapter 3.2.</i>   |
|                                 | 1060         | METHYLACETYLENE AND PROPADIENE MIXTURE, STABILIZED<br>such as mixtures of methylacetylene and propadiene with hydrocarbons, which as:<br><br>Mixture P1, contain not more than 63% methylacetylene and propadiene by volume and not more than 24% propane and propylene by volume, the percentage of C <sub>4</sub> - saturated hydrocarbons being not less than 14% by volume; and as<br><br>Mixture P2, contain not more than 48% methylacetylene and propadiene by volume and not more than 50% propane and propylene by volume, the percentage of C <sub>4</sub> - saturated hydrocarbons being not less than 5% by volume,<br><br>as well as mixtures of propadiene with 1 to 4% methylacetylene.   |
|                                 | 1965         | HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S<br>such as mixtures, which as:<br><br>Mixture A, have a vapour pressure at 70 °C not exceeding 1.1 MPa (11 bar) and a density at 50 °C not lower than 0.525 kg/l;<br><br>Mixture A01, have a vapour pressure at 70 °C not exceeding 1.6 MPa (16 bar) and a relative density at 50 °C not lower than 0.516 kg/l;<br><br>Mixture A02, have a vapour pressure at 70 °C not exceeding 1.6 MPa (16 bar) and a relative density at 50 °C not lower than 0.505 kg/l;<br><br>Mixture A0, have a vapour pressure at 70 °C not exceeding 1.6 MPa (16 bar) and a density at 50 °C not lower than 0.495 kg/l;<br><br>Mixture A1, have a vapour pressure at 70 °C not exceeding 2.1 MPa (21 bar) and a density at 50 °C not lower than 0.485 kg/l;<br><br>Mixture B1 have a vapour pressure at 70 °C not exceeding 2.6 MPa (26 bar) and a relative density at 50 °C not lower than 0.474 kg/l;<br><br>Mixture B2 have a vapour pressure at 70 °C not exceeding 2.6 MPa (26 bar) and a relative density at 50 °C not lower than 0.463 kg/l;<br><br>Mixture B, have a vapour pressure at 70 °C not exceeding 2.6 MPa (26 bar) and a density at 50 °C not lower than 0.450 kg/l;<br><br>Mixture C, have a vapour pressure at 70 °C not exceeding 3.1 MPa (31 bar) and a relative density at 50 °C not lower than 0.440 kg/l;<br><br><i>NOTE 1: In the case of the foregoing mixtures, the use of the following names customary in the trade is permitted for describing these substances: for mixture A01, A02 and A0: BUTANE; for mixture C: PROPANE.</i><br><br><i>NOTE 2: UN No. 1075 PETROLEUM GASES, LIQUEFIED may be used as an alternative entry for UN No. 1965 HYDROCARBON GAS MIXTURE LIQUEFIED, N.O.S. for carriage prior to or following maritime or air carriage.</i> |
|                                 | 3354         | INSECTICIDE GAS, FLAMMABLE, N.O.S.   |
|                                 | 3161         | LIQUEFIED GAS, FLAMMABLE, N.O.S.   |

| <b>Liquefied gases (cont'd)</b> |              |  |
|---------------------------------|--------------|--|
| <b>Classification code</b>      | <b>UN No</b> | <b>Name and description</b>                        |
| <b>2 T</b>                      | 1967         | INSECTICIDE GAS, TOXIC, N.O.S.                     |
|                                 | 3162         | LIQUEFIED GAS, TOXIC, N.O.S.                       |
| <b>2 TF</b>                     | 3355         | INSECTICIDE GAS, TOXIC, FLAMMABLE, N.O.S.          |
|                                 | 3160         | LIQUEFIED GAS, TOXIC, FLAMMABLE, N.O.S.            |
| <b>2 TC</b>                     | 3308         | LIQUEFIED GAS, TOXIC, CORROSIVE, N.O.S.            |
| <b>2 TO</b>                     | 3307         | LIQUEFIED GAS, TOXIC, OXIDIZING, N.O.S.            |
| <b>2 TFC</b>                    | 3309         | LIQUEFIED GAS, TOXIC, FLAMMABLE, CORROSIVE, N.O.S. |
| <b>2 TOC</b>                    | 3310         | LIQUEFIED GAS, TOXIC, OXIDIZING, CORROSIVE, N.O.S. |

| <b>Refrigerated liquefied gases</b> |              |   |
|-------------------------------------|--------------|---|
| <b>Classification code</b>          | <b>UN No</b> | <b>Name and description</b>                 |
| <b>3 A</b>                          | 3158         | GAS, REFRIGERATED LIQUID, N.O.S.            |
| <b>3 O</b>                          | 3311         | GAS, REFRIGERATED LIQUID, OXIDIZING, N.O.S. |
| <b>3 F</b>                          | 3312         | GAS, REFRIGERATED LIQUID, FLAMMABLE, N.O.S. |

| <b>Dissolved gases</b>     |              |   |
|----------------------------|--------------|---|
| <b>Classification code</b> | <b>UN No</b> | <b>Name and description</b>   |
| <b>4</b>                   |              | Only substances listed in Table A of Chapter 3.2 are to be accepted for carriage. |

| <b>Aerosols and receptacles, small, containing gas</b> |              |  |
|--|--------------|--|
| <b>Classification code</b>                             | <b>UN No</b> | <b>Name and description</b>  |
| <b>5</b>   | 1950         | AEROSOLS   |
|  | 2037         | RECEPTACLES, SMALL CONTAINING GAS<br>(GAS CARTRIDGES) without a release device, non-refillable |

| <b>Other articles containing gas under pressure</b> |  |   |
|---|--|---|
| <b>Classification code</b>                          | <b>UN No</b>   | <b>Name and description</b>   |
| <b>6A</b>   | 2857   | REFRIGERATING MACHINES containing non-flammable, non-toxic gases or ammonia solutions (UN 2672) |
|   | 3164   | ARTICLES, PRESSURIZED, PNEUMATIC (containing non-flammable gas) or                              |
|   | 3164   | ARTICLES, PRESSURIZED, HYDRAULIC (containing non-flammable gas)                                 |
| <b>6F</b>   | 3150   | DEVICES, SMALL, HYDROCARBON GAS POWERED or  |
|   | 3150   | HYDROCARBON GAS REFILLS FOR SMALL DEVICES, with release device                                  |
|   | 3478   | FUEL CELL CARTRIDGES, containing liquefied flammable gas or                                     |
|   | 3478   | FUEL CELL CARTRIDGES CONTAINED IN EQUIPMENT, containing liquefied flammable gas or              |
|   | 3478   | FUEL CELL CARTRIDGES PACKED WITH EQUIPMENT, containing liquefied flammable gas                  |
|   | 3479   | FUEL CELL CARTRIDGES, containing hydrogen in metal hydride or                                   |
|   | 3479   | FUEL CELL CARTRIDGES CONTAINED IN EQUIPMENT, containing hydrogen in metal hydride or            |
| 3479  | FUEL CELL CARTRIDGES PACKED WITH EQUIPMENT, containing hydrogen in metal hydride |   |

| <b>Gas samples</b>         |              |  |
|----------------------------|--------------|--|
| <b>Classification code</b> | <b>UN No</b> | <b>Name and description</b>  |
| <b>7 F</b>                 | 3167         | GAS SAMPLE, NON-PRESSURIZED, FLAMMABLE, N.O.S., not refrigerated liquid        |
| <b>7 T</b>                 | 3169         | GAS SAMPLE, NON-PRESSURIZED, TOXIC, N.O.S., not refrigerated liquid            |
| <b>7 TF</b>                | 3168         | GAS SAMPLE, NON-PRESSURIZED, TOXIC, FLAMMABLE, N.O.S., not refrigerated liquid |



## 2.2.3 Class 3 Flammable liquids

### 2.2.3.1 Criteria

2.2.3.1.1 The heading of Class 3 covers substances and articles containing substances of this Class which:

- are liquids according to subparagraph (a) of the definition for "liquid" in 1.2.1;
- have at 50 °C a vapour pressure of not more than 300 kPa (3 bar) and are not completely gaseous at 20 °C and at standard pressure of 101.3 kPa; and
- have a flash-point of not more than 60 °C (see 2.3.3.1 for the relevant test).

The heading of Class 3 also covers liquid substances and molten solid substances with a flash-point of more than 60°C and which are carried or handed over for carriage whilst heated at temperatures equal to or higher than their flash-point. These substances are assigned to UN No. 3256.

The heading of Class 3 also covers liquid desensitized explosives. Liquid desensitized explosives are explosive substances which are dissolved or suspended in water or other liquid substances, to form an homogeneous liquid mixture to suppress their explosive properties. Such entries in Table A of Chapter 3.2 are UN Nos. 1204, 2059, 3064, 3343, 3357 and 3379.

For the purpose of carriage in tank vessels, the heading of Class 3 also covers the following substances which:

- have a flash-point above 60° C and which are carried or handed over for carriage at a temperature within a range of 15 K below the flash-point;
- have an auto-ignition temperature of 200° C or below and which are not mentioned elsewhere.

**NOTE 1:** *Substances having a flash-point above 35 °C, non-toxic and non-corrosive, which, do not sustain combustion according to the criteria of 32.2.5 of Part III of the Manual of Tests and Criteria are not substances of Class 3; if, however, these substances are handed over for carriage and carried whilst heated at temperatures equal to or higher than their flash-point, they are substances of Class 3.*

**NOTE 2:** *By derogation from paragraph 2.2.3.1.1 above, diesel fuel, gasoil, heating oil (light) having a flash-point above 60 °C and not more than 100 °C shall be deemed substances of Class 3, UN No. 1202.*

**NOTE 3:** *Liquids which are highly toxic on inhalation, having a flash-point below 23 °C and toxic substances, having a flash-point of 23 °C or above are substances of Class 6.1 (see 2.2.61.1).*

**NOTE 4:** *Flammable liquid substances and preparations used as pesticides, which are highly toxic, toxic or slightly toxic and have a flash-point of 23 °C or above are substances of Class 6.1 (see 2.2.61.1).*

**NOTE 5:** *For the purpose of carriage in tank vessels, substances having a flash-point above 60° C and not more than 100° C are substances of Class 9 (identification number 9003).*

2.2.3.1.2 The substances and articles of Class 3 are subdivided as follows:

- F Flammable liquids, without subsidiary risk:
- F1 Flammable liquids having a flash-point of or below 60 °C;
  - F2 Flammable liquids having a flash-point above 60 °C which are carried or handed over for carriage at or above their flash-point (elevated temperature substances);
  - F3 Substances having a flash-point above 60° C which are carried or handed over for carriage at a temperature within a range of 15 K below the flash-point;
  - F4 Substances having an auto-ignition temperature of 200° C or below and which are not mentioned elsewhere.
- FT Flammable liquids, toxic:
- FT1 Flammable liquids, toxic;
  - FT2 Pesticides;
- FC Flammable liquids, corrosive;
- FTC Flammable liquids, toxic, corrosive;
- D Liquid desensitized explosives.

2.2.3.1.3 Substances and articles classified in Class 3 are listed in Table A of Chapter 3.2. Substances not mentioned by name in Table A of Chapter 3.2 shall be assigned to the relevant entry of 2.2.3.3 and the relevant packing group in accordance with the provisions of this section. Flammable liquids shall be assigned to one of the following packing groups according to the degree of danger they present for carriage:

| Packing Group    | Flash-point (closed cup) | Initial boiling point |
|------------------|--------------------------|-----------------------|
| I                | --                       | ≤ 35°C                |
| II <sup>a</sup>  | < 23°C                   | > 35°C                |
| III <sup>a</sup> | ≥ 23°C and ≤ 60°C        | > 35°C                |

<sup>a</sup> See also 2.2.3.1.4

For a liquid with (a) subsidiary risk(s), the packing group determined in accordance with the table above and the packing group based on the severity of the subsidiary risk(s) shall be considered; the classification and packing group shall then be determined in accordance with the table of precedence of hazards in 2.1.3.10.

2.2.3.1.4 Liquid or viscous mixtures and preparations, including those containing no more than 20% nitrocellulose with a nitrogen content not exceeding 12.6% (by dry mass), shall be assigned to packing group III only if the following requirements are met:

- (a) the height of the separated layer of solvent is less than 3 % of the total height of the sample in the solvent-separation test (see Manual of Tests and Criteria, Part III, sub-section 32.5.1); and
- (b) the viscosity<sup>2</sup> and flash-point are in accordance with the following table:

<sup>2</sup> *Viscosity determination: Where the substance concerned is non-Newtonian, or where a flow cup method of viscosity determination is otherwise unsuitable, a variable shear-rate viscometer shall be used to determine the dynamic viscosity coefficient of the substance, at 23 °C, at a number of shear rates. The values obtained are plotted against shear rate and then extrapolated to zero shear rate. The dynamic viscosity thus obtained, divided by the density, gives the apparent kinematic viscosity at near-zero shear rate.*

| Kinematic viscosity (extrapolated)<br>v (at near-zero shear rate)<br>mm <sup>2</sup> /s at 23 °C | Flow time t in accordance<br>with ISO 2431:1993 |                    | Flash-point<br>in °C |
|--|---|--------------------|----------------------|
|  | in s  | Jet diameter in mm |                      |
| 20 < v ≤ 80  | 20 < t ≤ 60                                     | 4                  | above 17             |
| 80 < v ≤ 135   | 60 < t ≤ 100                                    | 4                  | above 10             |
| 135 < v ≤ 220  | 20 < t ≤ 32                                     | 6                  | above 5              |
| 220 < v ≤ 300  | 32 < t ≤ 44                                     | 6                  | above -1             |
| 300 < v ≤ 700  | 44 < t ≤ 100                                    | 6                  | above -5             |
| 700 < <  | 100 < t   | 6                  | -5 and below         |

**NOTE:** Mixtures containing more than 20% but not more than 55% nitrocellulose with a nitrogen content not exceeding 12.6% by dry mass are substances assigned to UN No. 2059.

Mixtures having a flash-point below 23 °C and containing:

- more than 55 % nitrocellulose, whatever their nitrogen content; or
- not more than 55 % nitrocellulose with a nitrogen content above 12.6 % by dry mass,

are substances of Class 1 (UN Nos. 0340 or 0342) or of Class 4.1 (UN Nos. 2555, 2556 or 2557).

2.2.3.1.5 Non-toxic, non-corrosive and non-environmentally hazardous solutions and homogeneous mixtures having a flash-point of 23 °C or above (viscous substances, such as paints or varnishes, excluding substances containing more than 20 % nitrocellulose) packed in receptacles of less than 450 litres capacity, are not subject to ADN if, in the solvent-separation test (see Manual of Tests and Criteria, Part III, sub-section 32.5.1), the height of the separated layer of solvent is less than 3 % of the total height, and if the substances at 23 °C have, in the flow cup conforming to ISO 2431:1993 having a jet 6 mm in diameter, a flow time of:

- (a) not less than 60 seconds, or
- (b) not less than 40 seconds and contain not more than 60 % of substances of Class 3.

2.2.3.1.6 If substances of Class 3, as a result of admixtures, come into categories of risk different from those to which the substances mentioned by name in Table A of Chapter 3.2 belong, these mixtures or solutions shall be assigned to the entries to which they belong on the basis of their actual degree of danger.

**NOTE:** For the classification of solutions and mixtures (such as preparations and wastes) see also 2.1.3.

2.2.3.1.7 On the basis of the test procedures in accordance with 2.3.3.1 and 2.3.4, and the criteria set out in 2.2.3.1.1, it may also be determined whether the nature of a solution or a mixture mentioned by name or containing a substance mentioned by name is such that the solution or mixture is not subject to the provisions for this Class (see also 2.1.3).

### 2.2.3.2 Substances not accepted for carriage

2.2.3.2.1 Substances of Class 3 which are liable to form peroxides easily (as happens with ethers or with certain heterocyclic oxygenated substances) shall not be accepted for carriage if their peroxide content, calculated as hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>), exceeds 0.3%. The peroxide content shall be determined as indicated in 2.3.3.2.

- 2.2.3.2.2 The chemically unstable substances of Class 3 shall not be accepted for carriage unless the necessary steps have been taken to prevent their dangerous decomposition or polymerization during carriage. To this end, it shall be ensured in particular that receptacles and tanks do not contain any substance liable to promote these reactions.
- 2.2.3.2.3 Liquid desensitized explosives other than those listed in Table A of Chapter 3.2 shall not be accepted for carriage as substances of Class 3.

2.2.3.3 *List of collective entries*

|                                |                             |            |   |
|--------------------------------|-----------------------------|------------|---|
| <b>Flammable liquids</b>       |                             |            | 1133 ADHESIVES containing flammable liquid  |
|                                |                             |            | 1136 COAL TAR DISTILLATES, FLAMMABLE  |
|                                |                             |            | 1139 COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle undercoating, drum or barrel lining) |
|                                |                             |            | 1169 EXTRACTS, AROMATIC, LIQUID   |
|                                |                             |            | 1197 EXTRACTS, FLAVOURING, LIQUID   |
|                                |                             |            | 1210 PRINTING INK, flammable or   |
|                                |                             |            | 1210 PRINTING INK RELATED MATERIAL (including printing ink thinning or reducing compound), flammable  |
|                                |                             |            | 1263 PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or                                  |
|                                |                             |            | 1263 PAINT RELATED MATERIAL (including paint thinning or reducing compound)   |
|                                |                             |            | 1266 PERFUMERY PRODUCTS with flammable solvents   |
|                                |                             |            | 1293 TINCTURES, MEDICINAL   |
|                                |                             |            | 1306 WOOD PRESERVATIVES, LIQUID   |
|                                |                             | <b>F1</b>  | 1866 RESIN SOLUTION, flammable  |
|                                |                             |            | 1999 TARS, LIQUID, including road asphalt and oils, bitumen and cut backs   |
|                                |                             |            | 3065 ALCOHOLIC BEVERAGES  |
|                                |                             |            | 3269 POLYESTER RESIN KITS   |
|                                |                             |            | 1224 KETONES, LIQUID, N.O.S.  |
|                                |                             |            | 1268 PETROLEUM DISTILLATES, N.O.S. or   |
|                                |                             |            | 1268 PETROLEUM PRODUCTS, N.O.S.   |
|                                |                             |            | 1987 ALCOHOLS, N.O.S.   |
|                                |                             |            | 1989 ALDEHYDES, N.O.S.  |
|                                |                             |            | 2319 TERPENE HYDROCARBONS, N.O.S.   |
|                                |                             |            | 3271 ETHERS, N.O.S.   |
|                                |                             |            | 3272 ESTERS, N.O.S.   |
|                                |                             |            | 3295 HYDROCARBONS, LIQUID, N.O.S.   |
|                                |                             |            | 3336 MERCAPTANS, LIQUID, FLAMMABLE, N.O.S. or   |
|                                |                             |            | 3336 MERCAPTANS MIXTURE, LIQUID, FLAMMABLE, N.O.S.  |
|                                |                             |            | 1993 FLAMMABLE LIQUID, N.O.S.   |
| <b>Without subsidiary risk</b> |                             |            |   |
|                                | <b>elevated temperature</b> | <b>F2</b>  | 3256 ELEVATED TEMPERATURE LIQUID, FLAMMABLE, N.O.S., with flash-point above 60 °C, at or above its flash-point  |
|                                |                             | <b>F3</b>  | 9001 SUBSTANCES HAVING A FLASH-POINT ABOVE 60 °C carried or handed over for carriage at a TEMPERATURE WITHIN A RANGE OF 15 K BELOW THE FLASH-POINT        |
|                                |                             | <b>F4</b>  | 9002 SUBSTANCES WITH A SELF-IGNITION TEMPERATURE OF 200 °C AND BELOW, n.o.s.  |
| <b>Toxic</b>                   |                             |            |   |
|                                |                             |            |   |
|                                |                             |            |   |
|                                |                             |            |   |
|                                |                             |            |   |
|                                |                             |            |   |
|                                |                             |            |   |
|                                |                             |            |   |
|                                |                             |            |   |
|                                |                             |            |   |
|                                |                             | <b>FT1</b> | 1228 MERCAPTANS, LIQUID, FLAMMABLE, TOXIC, N.O.S. or  |
|                                |                             |            | 1228 MERCAPTAN MIXTURE, LIQUID, FLAMMABLE, TOXIC, N.O.S.  |
|                                |                             |            | 1986 ALCOHOLS, FLAMMABLE, TOXIC, N.O.S.   |
|                                |                             |            | 1988 ALDEHYDES, FLAMMABLE, TOXIC, N.O.S.  |
|                                |                             |            | 2478 ISOCYANATES, FLAMMABLE, TOXIC, N.O.S. or   |
|                                |                             |            | 2478 ISOCYANATE SOLUTION, FLAMMABLE, TOXIC, N.O.S.  |
|                                |                             |            | 3248 MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S.   |
|                                |                             |            | 3273 NITRILES, FLAMMABLE, TOXIC, N.O.S.   |
|                                |                             |            | 1992 FLAMMABLE LIQUID, TOXIC, N.O.S.  |
| <b>FT</b>                      |                             |            |   |

(cont'd)

2.2.3.3 *List of collective entries (cont'd)*

|  |            |  |
|--|------------|--|
| <b>Toxic</b>                                 |            |  |
| <b>FT</b>                                    |            | 2758 CARBAMATE PESTICIDE, LIQUID, FLAMMABLE, TOXIC<br>2760 ARSENICAL PESTICIDE, LIQUID, FLAMMABLE, TOXIC<br>2762 ORGANOCHLORINE PESTICIDE, LIQUID, FLAMMABLE, TOXIC<br>2764 TRIAZINE PESTICIDE, LIQUID, FLAMMABLE, TOXIC<br>2772 THIOCARBAMATE PESTICIDE, LIQUID, FLAMMABLE, TOXIC<br>2776 COPPER BASED PESTICIDE, LIQUID, FLAMMABLE, TOXIC<br>2778 MERCURY BASED PESTICIDE, LIQUID, FLAMMABLE, TOXIC<br>2780 SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, FLAMMABLE, TOXIC<br>2782 BIPYRIDILUM PESTICIDE, LIQUID, FLAMMABLE, TOXIC<br>2784 ORGANOPHOSPHORUS PESTICIDE, LIQUID, FLAMMABLE, TOXIC<br>2787 ORGANOTIN PESTICIDE, LIQUID, FLAMMABLE, TOXIC<br>3024 COUMARIN DERIVATIVE PESTICIDE, LIQUID, FLAMMABLE, TOXIC<br>3346 PHENOXYACETIC ACID DERIVATIVE PESTICIDE, LIQUID, FLAMMABLE, TOXIC<br>3350 PYRETHROID PESTICIDE, LIQUID, FLAMMABLE TOXIC<br>3021 PESTICIDE, LIQUID, FLAMMABLE, TOXIC, N.O.S. |
| <b>Pesticide<br/>(f.p.&lt;23 °C)</b>         | <b>FT2</b> | <p><i>NOTE : The classification of a pesticide under an entry shall be effected on the basis of the active ingredient, of the physical state of the pesticide and any subsidiary risks it may exhibit.</i></p>   |
| <b>Corrosive</b>                             |            | 3469 PAINT, FLAMMABLE, CORROSIVE (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or<br>3469 PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE (including paint thinning or reducing compound)<br>2733 AMINES, FLAMMABLE, CORROSIVE, N.O.S. or<br>2733 POLYAMINES, FLAMMABLE, CORROSIVE, N.O.S.<br>2985 CHLOROSILANES, FLAMMABLE, CORROSIVE, N.O.S.<br>3274 ALCOHOLATES SOLUTION, N.O.S., in alcohol<br>2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S.  |
| <b>Toxic,<br/>corrosive</b>                  | <b>FTC</b> | 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.  |
| <b>Liquid<br/>desensitised<br/>Explosive</b> | <b>D</b>   | 3343 NITROGLYCERIN MIXTURE, DESENSITIZED, LIQUID, FLAMMABLE, N.O.S. with not more than 30% nitroglycerin by mass<br>3357 NITROGLYCERIN MIXTURE, DESENSITIZED, LIQUID, N.O.S. with not more than 30% nitroglycerin by mass<br>3379 DESENSITIZED EXPLOSIVE, LIQUID, N.O.S.   |

**2.2.41 Class 4.1 Flammable solids, self-reactive substances and solid desensitized explosives**

**2.2.41.1 Criteria**

2.2.41.1.1 The heading of Class 4.1 covers flammable substances and articles, desensitized explosives which are solids according to subparagraph (a) of the definition "solid" in 1.2.1 and self-reactive liquids or solids.

The following are assigned to Class 4.1:

- readily flammable solid substances and articles (see paragraphs 2.2.41.1.3 to 2.2.41.1.8);
- self-reactive solids or liquids (see paragraphs 2.2.41.1.9 to 2.2.41.1.17);
- solid desensitized explosives (see 2.2.41.1.18);
- substances related to self-reactive substances (see 2.2.41.1.19).

2.2.41.1.2 The substances and articles of Class 4.1 are subdivided as follows:

F Flammable solids, without subsidiary risk:

- F1 Organic;
- F2 Organic, molten;
- F3 Inorganic;

FO Flammable solids, oxidizing;

FT Flammable solids, toxic:

- FT1 Organic, toxic;
- FT2 Inorganic, toxic;

FC Flammable solids, corrosive:

- FC1 Organic, corrosive;
- FC2 Inorganic, corrosive;

D Solid desensitized explosives without subsidiary risk;

DT Solid desensitized explosives, toxic;

SR Self-reactive substances:

- SR1 Not requiring temperature control;
- SR2 Requiring temperature control.

## ***Flammable solids***

### *Definition and properties*

- 2.2.41.1.3 *Flammable solids* are readily combustible solids and solids which may cause fire through friction.

*Readily combustible solids* are powdered, granular, or pasty substances which are dangerous if they can be easily ignited by brief contact with an ignition source, such as a burning match, and if the flame spreads rapidly. The danger may come not only from the fire but also from toxic combustion products. Metal powders are especially dangerous because of the difficulty of extinguishing a fire since normal extinguishing agents such as carbon dioxide or water can increase the hazard.

### *Classification*

- 2.2.41.1.4 Substances and articles classified as flammable solids of Class 4.1 are listed in Table A of Chapter 3.2. The assignment of organic substances and articles not mentioned by name in Table A of Chapter 3.2 to the relevant entry of sub-section 2.2.41.3 in accordance with the provisions of Chapter 2.1 can be based on experience or on the results of the test procedures in accordance with Part III, sub-section 33.2.1 of the Manual of Tests and Criteria. The assignment of inorganic substances not mentioned by name shall be based on the results of the test procedures in accordance with Part III, sub-section 33.2.1 of the Manual of Tests and Criteria; experience shall also be taken into account when it leads to a more stringent assignment.

- 2.2.41.1.5 When substances not mentioned by name are assigned to one of the entries listed in 2.2.41.3 on the basis of the test procedures in accordance with the Manual of Tests and Criteria, Part III, sub-section 33.2.1, the following criteria apply:

- (a) With the exception of metal powders or powders of metal alloys, powdery, granular or pasty substances shall be classified as readily flammable substances of Class 4.1 if they can be easily ignited by brief contact with an ignition source (e.g. a burning match), or if, in the event of ignition, the flame spreads rapidly, the burning time is less than 45 seconds for a measured distance of 100 mm or the rate of burning is greater than 2.2 mm/s.
- (b) Metal powders or powders of metal alloys shall be assigned to Class 4.1 if they can be ignited by a flame and the reaction spreads over the whole length of the sample in 10 minutes or less.

Solids which may cause fire through friction shall be classified in Class 4.1 by analogy with existing entries (e.g. matches) or in accordance with any appropriate special provision.

- 2.2.41.1.6 On the basis of the test procedure in accordance with the Manual of Tests and Criteria, Part III, Section 33.2.1 and the criteria set out in 2.2.41.1.4 and 2.2.41.1.5, it may also be determined whether the nature of a substance mentioned by name is such that the substance is not subject to the provisions for this Class.

- 2.2.41.1.7 If substances of Class 4.1, as a result of admixtures, come into different categories of risk from those to which the substances mentioned by name in Table A of Chapter 3.2 belong, these mixtures shall be assigned to the entries to which they belong on the basis of their actual degree of danger.

**NOTE:** For the classification of solutions and mixtures (such as preparations and wastes), see also 2.1.3.



*Assignment of packing groups*

2.2.41.1.8 Flammable solids classified under the various entries in Table A of Chapter 3.2 shall be assigned to packing groups II or III on the basis of test procedures of the Manual of Tests and Criteria, Part III, sub-section 33.2.1, in accordance with the following criteria:

- (a) Readily flammable solids which, when tested, have a burning time of less than 45 seconds over a measured distance of 100 mm shall be assigned to:

Packing group II: if the flame passes the wetted zone;

Packing group III: if the wetted zone stops the flame for at least four minutes;

- (b) Metal powders or powders of metal alloys shall be assigned to:

Packing group II: if, when tested, the reaction spreads over the whole length of the sample in five minutes or less;

Packing group III: if, when tested, the reaction spreads over the whole length of the sample in more than five minutes.

For solids which may cause fire through friction, the packing group shall be assigned by analogy with existing entries or in accordance with any special provision.

***Self-reactive substances***

*Definitions*

2.2.41.1.9 For the purposes of ADN, *self-reactive substances* are thermally unstable substances liable to undergo a strongly exothermic decomposition even without participation of oxygen (air). Substances are not considered to be self-reactive substances of Class 4.1, if:

- (a) they are explosives according to the criteria of Class 1;
- (b) they are oxidizing substances according to the classification procedure for Class 5.1 (see 2.2.51.1) except that mixtures of oxidizing substances which contain 5.0% or more of combustible organic substances shall be subjected to the classification procedure defined in Note 2;
- (c) they are organic peroxides according to the criteria of Class 5.2 (see 2.2.52.1);
- (d) their heat of decomposition is less than 300 J/g; or
- (e) their self-accelerating decomposition temperature (SADT) (see NOTE 3 below) is greater than 75 °C for a 50 kg package.

**NOTE 1:** *The heat of decomposition can be determined using any internationally recognised method e.g. differential scanning calorimetry and adiabatic calorimetry.*

**NOTE 2:** *Mixtures of oxidizing substances meeting the criteria of Class 5.1 which contain 5.0% or more of combustible organic substances, which do not meet the criteria mentioned in (a), (c), (d) or (e) above, shall be subjected to the self-reactive substance classification procedure.*

*A mixture showing the properties of a self-reactive substance, type B to F, shall be classified as a self-reactive substance of Class 4.1.*

*A mixture showing the properties of a self-reactive substance, type G, according to the principle given in 20.4.3 (g) of Part II of the Manual of Tests and Criteria shall be considered for classification as a substance of Class 5.1 (see 2.2.51.1).*

**NOTE 3:** *The self-accelerating decomposition temperature (SADT) is the lowest temperature at which self-accelerating decomposition may occur with a substance in the packaging as used during carriage. Requirements for the determination of the SADT are given in the Manual of Tests and Criteria, Part II, Chapter 20 and section 28.4.*

**NOTE 4:** *Any substance which shows the properties of a self-reactive substance shall be classified as such, even if this substance gives a positive test result according to 2.2.42.1.5 for inclusion in Class 4.2.*

#### *Properties*

- 2.2.41.1.10 The decomposition of self-reactive substances can be initiated by heat, contact with catalytic impurities (e.g. acids, heavy-metal compounds, bases), friction or impact. The rate of decomposition increases with temperature and varies with the substance. Decomposition, particularly if no ignition occurs, may result in the evolution of toxic gases or vapours. For certain self-reactive substances, the temperature shall be controlled. Some self-reactive substances may decompose explosively, particularly if confined. This characteristic may be modified by the addition of diluents or by the use of appropriate packagings. Certain self-reactive substances burn vigorously. Self-reactive substances are, for example, some compounds of the types listed below:

aliphatic azo compounds (-C-N=N-C-);  
organic azides (-C-N<sub>3</sub>);  
diazonium salts (-CN<sub>2</sub><sup>+</sup> Z<sup>-</sup>);  
N-nitroso compounds (-N-N=O); and  
aromatic sulphohydrazides (-SO<sub>2</sub>-NH-NH<sub>2</sub>).

This list is not exhaustive and substances with other reactive groups and some mixtures of substances may have similar properties.

#### *Classification*

- 2.2.41.1.11 Self-reactive substances are classified into seven types according to the degree of danger they present. The types of self-reactive substances range from type A, which is not accepted for carriage in the packaging in which it is tested, to type G, which is not subject to the provisions for self-reactive substances of Class 4.1. The classification of types B to F is directly related to the maximum quantity allowed in one packaging. The principles to be applied for classification as well as the applicable classification procedures, test methods and criteria and an example of a suitable test report are given in Part II of the Manual of Tests and Criteria.
- 2.2.41.1.12 Self-reactive substances which have already been classified and are already permitted for carriage in packagings are listed in 2.2.41.4, those already permitted for carriage in IBCs are listed in 4.1.4.2 of ADR, packing instruction IBC520 and those already permitted for carriage in tanks according to Chapter 4.2 of ADR are listed in 4.2.5.2 of ADR, portable tank instruction T23. Each permitted substance listed is assigned to a generic entry of Table A of Chapter 3.2 (UN Nos. 3221 to 3240), and appropriate subsidiary risks and remarks providing relevant transport information are given.

The collective entries specify:

- self-reactive substances types B to F, see 2.2.41.1.11 above;

- physical state (liquid/solid); and
- temperature control (when required), see 2.2.41.1.17 below.

The classification of the self-reactive substances listed in 2.2.41.4 is based on the technically pure substance (except where a concentration of less than 100% is specified).

- 2.2.41.1.13 Classification of self-reactive substances not listed in 2.2.41.4, 4.1.4.2 of ADR, packing instruction IBC520 or 4.2.5.2 of ADR, portable tank instruction T23 and assignment to a collective entry shall be made by the competent authority of the country of origin on the basis of a test report. The statement of approval shall contain the classification and the relevant conditions of carriage. If the country of origin is not a Contracting Party to ADN, the classification and the conditions of carriage shall be recognized by the competent authority of the first country Contracting Party to ADN reached by the consignment.
- 2.2.41.1.14 Activators, such as zinc compounds, may be added to some self-reactive substances to change their reactivity. Depending on both the type and the concentration of the activator, this may result in a decrease in thermal stability and a change in explosive properties. If either of these properties is altered, the new formulation shall be assessed in accordance with the classification procedure.
- 2.2.41.1.15 Samples of self-reactive substances or formulations of self-reactive substances not listed in 2.2.41.4, for which a complete set of test results is not available and which are to be carried for further testing or evaluation, shall be assigned to one of the appropriate entries for self-reactive substances type C provided the following conditions are met:
- the available data indicate that the sample would be no more dangerous than self-reactive substances type B;
  - the sample is packaged in accordance with packing method OP2 of 4.1.4.1 of ADR and the quantity per cargo transport unit and per transport unit is limited to 10 kg;
  - the available data indicate that the control temperature, if any, is sufficiently low to prevent any dangerous decomposition and sufficiently high to prevent any dangerous phase separation.

#### *Desensitization*

- 2.2.41.1.16 In order to ensure safety during carriage, self-reactive substances are in many cases desensitized by use of a diluent. Where a percentage of a substance is stipulated, this refers to the percentage by mass, rounded to the nearest whole number. If a diluent is used, the self-reactive substance shall be tested with the diluent present in the concentration and form used in carriage. Diluents which may allow a self-reactive substance to concentrate to a dangerous extent in the event of leakage from a packaging shall not be used. Any diluent shall be compatible with the self-reactive substance. In this regard, compatible diluents are those solids or liquids which have no detrimental influence on the thermal stability and hazard type of the self-reactive substance. Liquid diluents in formulations requiring temperature control (see 2.2.41.1.14) shall have a boiling point of at least 60 °C and a flash-point not less than 5 °C. The boiling point of the liquid shall be at least 50 °C higher than the control temperature of the self-reactive substance.

#### *Temperature control requirements*

- 2.2.41.1.17 Certain self-reactive substances may only be carried under temperature controlled conditions. The control temperature is the maximum temperature at which the self-reactive

substance can be safely carried. It is assumed that the temperature of the immediate surroundings of a package only exceeds 55 °C during carriage for a relatively short time in a 24 hour period. In the event of loss of temperature control, it may be necessary to implement emergency procedures. The emergency temperature is the temperature at which such procedures shall be implemented.

The control and emergency temperatures are derived from the SADT (see table 1). The SADT shall be determined in order to decide whether a substance shall be subjected to temperature control during carriage. Provisions for the determination of the SADT are given in the Manual of Tests and Criteria, Part II, Chapter 20 and Section 28.4.

**Table 1 Derivation of control and emergency temperatures**

| Type of receptacle         | SADT <sup>a</sup>      | Control temperature | Emergency temperature |
|----------------------------|------------------------|---------------------|-----------------------|
| Single packagings and IBCs | 20 °C or less          | 20 °C below SADT    | 10 °C below SADT      |
|                            | over 20 °C to 35 °C    | 15 °C below SADT    | 10 °C below SADT      |
|                            | over 35 °C             | 10 °C below SADT    | 5 °C below SADT       |
| Tanks                      | not greater than 50 °C | 10 °C below SADT    | 5 °C below SADT       |

<sup>a</sup> SADT of the substance as packaged for carriage.

Self-reactive substances with an SADT not greater than 55 °C shall be subject to temperature control during carriage. Where applicable, control and emergency temperatures are listed in 2.2.41.4. The actual temperature during carriage may be lower than the control temperature but shall be selected so as to avoid dangerous separation of phases.

#### ***Solid desensitized explosives***

2.2.41.1.18 Solid desensitized explosives are substances which are wetted with water or alcohols or are diluted with other substances to suppress their explosive properties. Such entries in Table A of Chapter 3.2 are: UN Nos. 1310, 1320, 1321, 1322, 1336, 1337, 1344, 1347, 1348, 1349, 1354, 1355, 1356, 1357, 1517, 1571, 2555, 2556, 2557, 2852, 2907, 3317, 3319, 3344, 3364, 3365, 3366, 3367, 3368, 3369, 3370, 3376, 3380 and 3474.

#### ***Substances related to self-reactive substances***

2.2.41.1.19 Substances that:

- (a) have been provisionally accepted into Class 1 according to Test Series 1 and 2 but exempted from Class 1 by Test Series 6;
- (b) are not self-reactive substances of Class 4.1; and
- (c) are not substances of Classes 5.1 or 5.2

are also assigned to Class 4.1. UN Nos. 2956, 3241, 3242 and 3251 are such entries.

#### **2.2.41.2 Substances not accepted for carriage**

2.2.41.2.1 The chemically unstable substances of Class 4.1 shall not be accepted for carriage unless the necessary steps have been taken to prevent their dangerous decomposition or polymerization

during carriage. To this end, it shall in particular be ensured that receptacles and tanks do not contain any substance liable to promote these reactions.

2.2.41.2.2 Flammable solids, oxidizing, assigned to UN No. 3097 shall not be accepted for carriage unless they meet the requirements for Class 1 (see also 2.1.3.7).

2.2.41.2.3 The following substances shall not be accepted for carriage:

- Self-reactive substances of type A (see Manual of Tests and Criteria, Part II, paragraph 20.4.2 (a));
- Phosphorus sulphides which are not free from yellow and white phosphorus;
- Solid sensitized explosives other than those listed in Table A of Chapter 3.2;
- Inorganic flammable substances in the molten form other than UN No. 2448 SULPHUR, MOLTEN;
- Barium azide with a water content less than 50% (mass).

2.2.41.3 *List of collective entries*

|  |                                   |                                  |  |   |
|--|-----------------------------------|----------------------------------|--|---|
| Flammable solids   | without subsidiary risk           | organic                          | F1   | 3175 SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.<br>1353 FIBRES IMPREGNATED WITH WEAKLY NITRATED NITROCELLULOSE, N.O.S.<br>or<br>1353 FABRICS IMPREGNATED WITH WEAKLY NITRATED NITROCELLULOSE, N.O.S.<br>1325 FLAMMABLE SOLID, ORGANIC, N.O.S. |
|  |                                   | organic molten                   | F2   | 3176 FLAMMABLE SOLID, ORGANIC, MOLTEN, N.O.S.   |
|  |                                   | inorganic                        | F3   | 3089 METAL POWDER, FLAMMABLE, N.O.S. <sup>a b</sup><br>3181 METAL SALTS OF ORGANIC COMPOUNDS, FLAMMABLE, N.O.S.<br>3182 METAL HYDRIDES, FLAMMABLE, N.O.S. <sup>c</sup><br>3178 FLAMMABLE SOLID, INORGANIC, N.O.S.                             |
|  | oxidizing                         | FO                               | 3097 FLAMMABLE SOLID, OXIDIZING, N.O.S. (not allowed, see Para. 2.2.41.2.2)  |   |
|  | toxic<br>FT                       | organic                          | FT1  | 2926 FLAMMABLE SOLID, TOXIC, ORGANIC, N.O.S.  |
|  |                                   | inorganic                        | FT2  | 3179 FLAMMABLE SOLID, TOXIC, INORGANIC, N.O.S.  |
| corrosive<br>FC  |                                   | organic                          | FC1  | 2925 FLAMMABLE SOLID, CORROSIVE, ORGANIC, N.O.S.  |
|  |                                   | inorganic                        | FC2  | 3180 FLAMMABLE SOLID, CORROSIVE, INORGANIC, N.O.S.  |
| Solid desensitized explosives                            | without subsidiary risk           | D                                | 3319 NITROGLYCERIN MIXTURE, DESENSITIZED, SOLID, N.O.S. with more than 2% but not more than 10% nitroglycerin by mass<br>3344 PENTAERYTHRITOL TETRANITRATE (PENTAERYTHRITOL TETRANITRATE, PETN) MIXTURE, DESENSITIZED, SOLID, N.O.S. with more than 10% but not more than 20% PETN by mass<br>3380 DESENSITIZED EXPLOSIVE, SOLID, N.O.S. |   |
|  | toxic                             | DT                               | Only substances listed in Table A of Chapter 3.2 are to be accepted for carriage as substances of Class 4.1  |   |
| Self-reactive substances<br>SR                           | not requiring temperature control | SR1                              | SELF-REACTIVE LIQUID TYPE A } Not accepted for carriage, see 2.2.41.2.3  |   |
|  |                                   |                                  | SELF-REACTIVE SOLID TYPE A }   |   |
|  |                                   | 3221 SELF-REACTIVE LIQUID TYPE B |  |   |
|  |                                   | 3222 SELF-REACTIVE SOLID TYPE B  |  |   |
|  |                                   | 3223 SELF-REACTIVE LIQUID TYPE C |  |   |
|  |                                   | 3224 SELF-REACTIVE SOLID TYPE C  |  |   |
|  |                                   | 3225 SELF-REACTIVE LIQUID TYPE D |  |   |
|  |                                   | 3226 SELF-REACTIVE SOLID TYPE D  |  |   |
|  |                                   | 3227 SELF-REACTIVE LIQUID TYPE E |  |   |
|  |                                   | 3228 SELF-REACTIVE SOLID TYPE E  |  |   |
|  | 3229 SELF-REACTIVE LIQUID TYPE F  |                                  |  |   |
|  | 3230 SELF-REACTIVE SOLID TYPE F   |                                  |  |   |
|  | requiring temperature control     | SR2                              | SELF-REACTIVE LIQUID TYPE G } Not subject to the provisions applicable to Class 4.1, see 2.2.41.1.11   |   |
|  |                                   |                                  | SELF-REACTIVE SOLID TYPE G }   |   |
| 3231 SELF-REACTIVE LIQUID TYPE B, TEMPERATURE CONTROLLED |                                   |                                  |  |   |
| 3232 SELF-REACTIVE SOLID TYPE B, TEMPERATURE CONTROLLED  |                                   |                                  |  |   |
| 3233 SELF-REACTIVE LIQUID TYPE C, TEMPERATURE CONTROLLED |                                   |                                  |  |   |
| 3234 SELF-REACTIVE SOLID TYPE C, TEMPERATURE CONTROLLED  |                                   |                                  |  |   |
| 3235 SELF-REACTIVE LIQUID TYPE D, TEMPERATURE CONTROLLED |                                   |                                  |  |   |
| 3236 SELF-REACTIVE SOLID TYPE D, TEMPERATURE CONTROLLED  |                                   |                                  |  |   |
| 3237 SELF-REACTIVE LIQUID TYPE E, TEMPERATURE CONTROLLED |                                   |                                  |  |   |
| 3238 SELF-REACTIVE SOLID TYPE E, TEMPERATURE CONTROLLED  |                                   |                                  |  |   |
| 3239 SELF-REACTIVE LIQUID TYPE F, TEMPERATURE CONTROLLED |                                   |                                  |  |   |
| 3240 SELF-REACTIVE SOLID TYPE F, TEMPERATURE CONTROLLED  |                                   |                                  |  |   |

<sup>a</sup> Metals and metal alloys in powdered or other flammable form, liable to spontaneous combustion, are substances of Class 4.2.

<sup>b</sup> Metals and metal alloys in powdered or other flammable form, which in contact with water, emit flammable gases, are substances of Class 4.3.

<sup>c</sup> Metals hydrides which, in contact with water, emit flammable gases, are substances of Class 4.3. Aluminium borohydride or aluminium borohydride in devices are substances of Class 4.2, UN No. 2870.

**2.2.41.4 List of currently assigned self-reactive substances in packagings**

In the column "Packing Method" codes "OP1" to "OP8" refer to packing methods in 4.1.4.1 of ADR, packing instruction P520 (see also 4.1.7.1 of ADR). Self-reactive substances to be carried shall fulfil the classification and the control and emergency temperatures (derived from the SADT) as listed. For substances permitted in IBCs, see 4.1.4.2 of ADR, packing instruction IBC520 and, for those permitted in tanks according Chapter 4.2 of ADR, see 4.2.5.2 of ADR, portable tank instruction T23.

**NOTE:** The classification given in this table is based on the technically pure substance (except where a concentration of less than 100 % is specified). For other concentrations, the substance may be classified differently following the procedures given in Part II of the Manual of Tests and Criteria and in 2.2.41.1.17.

| SELF-REACTIVE SUBSTANCE   | Concentration (%) | Packing method | Control temperature (°C) | Emergency temperature (°C) | UN generic entry | Remarks |
|---|-------------------|----------------|--------------------------|----------------------------|------------------|---------|
| ACETONE-PYROGALLOL COPOLYMER<br>2-DIAZO-1-NAPHTHOL-5-SULPHONATE       | 100               | OP8            |                          |                            | 3228             |         |
| AZODICARBONAMIDE FORMULATION<br>TYPE B, TEMPERATURE CONTROLLED        | < 100             | OP5            |                          |                            | 3232             | (1) (2) |
| AZODICARBONAMIDE FORMULATION<br>TYPE C                                | < 100             | OP6            |                          |                            | 3224             | (3)     |
| AZODICARBONAMIDE FORMULATION<br>TYPE C, TEMPERATURE CONTROLLED        | < 100             | OP6            |                          |                            | 3234             | (4)     |
| AZODICARBONAMIDE FORMULATION<br>TYPE D                                | < 100             | OP7            |                          |                            | 3226             | (5)     |
| AZODICARBONAMIDE FORMULATION<br>TYPE D, TEMPERATURE CONTROLLED        | < 100             | OP7            |                          |                            | 3236             | (6)     |
| 2,2' -AZODI(2,4-DIMETHYL-<br>4-METHOXYVALERONITRILE)                  | 100               | OP7            | -5                       | +5                         | 3236             |         |
| 2,2' -AZODI(2,4-DIMETHYL-<br>VALERONITRILE)                           | 100               | OP7            | +10                      | +15                        | 3236             |         |
| 2,2' -AZODI(ETHYL-<br>2-METHYLPROPIONATE)                             | 100               | OP7            | +20                      | +25                        | 3235             |         |
| 1,1-AZODI(HEXAHYDROBENZONITRILE)                                      | 100               | OP7            |                          |                            | 3226             |         |
| 2,2' -AZODI(ISOBUTYRONITRILE)   | 100               | OP6            | +40                      | +45                        | 3234             |         |
| 2,2' -AZODI(ISOBUTYRONITRILE)<br>as a water based paste               | ≤ 50              | OP6            |                          |                            | 3224             |         |
| 2,2' -AZODI(2-METHYLBUTYRO-<br>NITRILE)                               | 100               | OP7            | +35                      | +40                        | 3236             |         |
| BENZENE-1,3-DISULPHONYL<br>HYDRAZIDE, as a paste                      | 52                | OP7            |                          |                            | 3226             |         |
| BENZENE SULPHONYL HYDRAZIDE   | 100               | OP7            |                          |                            | 3226             |         |
| 4-(BENZYL(ETHYL)AMINO)-3-ETHOXY-<br>BENZENEDIAZONIUM ZINC CHLORIDE    | 100               | OP7            |                          |                            | 3226             |         |
| 4-(BENZYL(METHYL)AMINO)-3-<br>ETHOXYBENZENEDIAZONIUM ZINC<br>CHLORIDE | 100               | OP7            | +40                      | +45                        | 3236             |         |
| 3-CHLORO-4-DIETHYLAMINO BENZENE-<br>DIAZONIUM ZINC CHLORIDE           | 100               | OP7            |                          |                            | 3226             |         |

2.2.41.4 *List of currently assigned self-reactive substances in packagings (cont'd)*

| SELF-REACTIVE SUBSTANCE  | Concentration (%) | Packing method | Control temperature (°C) | Emergency temperature (°C) | UN generic entry | Remarks |
|--|-------------------|----------------|--------------------------|----------------------------|------------------|---------|
| 2-DIAZO-1-NAPHTHOL-4-SULPHONYL CHLORIDE  | 100               | OP5            |                          |                            | 3222             | (2)     |
| 2-DIAZO-1-NAPHTHOL-5-SULPHONYL CHLORIDE  | 100               | OP5            |                          |                            | 3222             | (2)     |
| 2-DIAZO-1-NAPHTHOL SULPHONIC ACID ESTER MIXTURE, TYPE D  | < 100             | OP7            |                          |                            | 3226             | (9)     |
| 2,5-DIBUTOXY-4-(4-MORPHOLINYL)-BENZENEDIAZONIUM, TETRACHLOROZINCATE (2:1)                                  | 100               | OP8            |                          |                            | 3228             |         |
| 2,5-DIETHOXY-4-MORPHOLINO-BENZENEDIAZONIUM ZINC CHLORIDE   | 67-100            | OP7            | +35                      | +40                        | 3236             |         |
| 2,5-DIETHOXY-4-MORPHOLINO-BENZENEDIAZONIUM ZINC CHLORIDE   | 66                | OP7            | +40                      | +45                        | 3236             |         |
| 2,5-DIETHOXY-4-MORPHOLINO-BENZENEDIAZONIUM TETRAFLUOROBORATE   | 100               | OP7            | +30                      | +35                        | 3236             |         |
| 2,5-DIETHOXY-4-(4-MORPHOLINYL)-BENZENEDIAZONIUM SULPHATE   | 100               | OP7            |                          |                            | 3226             |         |
| 2,5-DIETHOXY-4-(PHENYLSULPHONYL)-BENZENEDIAZONIUM ZINC CHLORIDE  | 67                | OP7            | +40                      | +45                        | 3236             |         |
| DIETHYLENEGLYCOL BIS (ALLYL CARBONATE) + DI-ISOPROPYLPEROXYDICARBONATE                                     | ≥ 88 +<br>≤ 12    | OP8            | -10                      | 0                          | 3237             |         |
| 2,5-DIMETHOXY-4-(4-METHYL-PHENYLSULPHONYL)BENZENE-DIAZONIUM ZINC CHLORIDE                                  | 79                | OP7            | +40                      | +45                        | 3236             |         |
| 4-(DIMETHYLAMINO)-BENZENEDIAZONIUM TRICHLOROZINCATE (-1)   | 100               | OP8            |                          |                            | 3228             |         |
| 4-DIMETHYLAMINO-6-(2-DIMETHYL-AMINOETHOXY) TOLUENE-2-DIAZONIUM ZINC CHLORIDE                               | 100               | OP7            | +40                      | +45                        | 3236             |         |
| N,N'-DINITROSO-N,N'- DIMETHYL TEREPHTHALAMIDE, as a paste  | 72                | OP6            |                          |                            | 3224             |         |
| N,N'-DINITROSOPENTAMETHYLENE-TETRAMINE   | 82                | OP6            |                          |                            | 3224             | (7)     |
| DIPHENYLOXIDE-4,4'-DISULPHONYL HYDRAZIDE   | 100               | OP7            |                          |                            | 3226             |         |
| 4-DIPROPYLAMINO BENZENE-DIAZONIUM ZINC CHLORIDE  | 100               | OP7            |                          |                            | 3226             |         |
| 2-(N,N-ETHOXYCARBONYL-PHENYLAMINO)-3-METHOXY-4-(N-METHYL-N-CYCLOHEXYLAMINO) BENZENEDIAZONIUM ZINC CHLORIDE | 63-92             | OP7            | + 40                     | + 45                       | 3236             |         |
| 2-(N,N-ETHOXYCARBONYL-PHENYLAMINO)-3-METHOXY-4-(N-METHYL-N-CYCLOHEXYLAMINO) BENZENEDIAZONIUM ZINC CHLORIDE | 62                | OP7            | + 35                     | + 40                       | 3236             |         |



**2.2.41.4** *List of currently assigned self-reactive substances in packagings (cont'd)*

| SELF-REACTIVE SUBSTANCE   | Concentration (%) | Packing method | Control temperature (°C) | Emergency temperature (°C) | UN generic entry | Remarks |
|---|-------------------|----------------|--------------------------|----------------------------|------------------|---------|
| N-FORMYL-2-(NITROMETHYLENE)-1,3-PERHYDROTHIAZINE  | 100               | OP7            | +45                      | +50                        | 3236             |         |
| 2-(2-HYDROXYETHOXY)-1-(PYRROLIDIN-1-YL)BENZENE-4-DIAZONIUM ZINC CHLORIDE                              | 100               | OP7            | +45                      | +50                        | 3236             |         |
| 3-(2-HYDROXYETHOXY)-4-(PYRROLIDIN-1-YL)BENZENE DIAZONIUM ZINC CHLORIDE                                | 100               | OP7            | +40                      | +45                        | 3236             |         |
| 2-(N,N-METHYLAMINOETHYL-CARBONYL)-4-(3,4-DIMETHYL-PHENYLSULPHONYL)BENZENE-DIAZONIUM HYDROGEN SULPHATE | 96                | OP7            | +45                      | +50                        | 3236             |         |
| 4-METHYLBENZENESULPHONYL-HYDRAZIDE  | 100               | OP7            |                          |                            | 3226             |         |
| 3-METHYL-4-(PYRROLIDIN-1-YL) BENZENEDIAZONIUM TETRAFLUOROBORATE                                       | 95                | OP6            | +45                      | +50                        | 3234             |         |
| 4-NITROSOPHENOL   | 100               | OP7            | +35                      | +40                        | 3236             |         |
| SELF-REACTIVE LIQUID, SAMPLE  |                   | OP2            |                          |                            | 3223             | (8)     |
| SELF-REACTIVE LIQUID, SAMPLE, TEMPERATURE CONTROLLED  |                   | OP2            |                          |                            | 3233             | (8)     |
| SELF-REACTIVE SOLID, SAMPLE   |                   | OP2            |                          |                            | 3224             | (8)     |
| SELF-REACTIVE SOLID, SAMPLE, TEMPERATURE CONTROLLED   |                   | OP2            |                          |                            | 3234             | (8)     |
| SODIUM 2-DIAZO-1-NAPHTHOL-4-SULPHONATE  | 100               | OP7            |                          |                            | 3226             |         |
| SODIUM 2-DIAZO-1-NAPHTHOL-5-SULPHONATE  | 100               | OP7            |                          |                            | 3226             |         |
| TETRAMINE PALLADIUM (II) NITRATE  | 100               | OP6            | +30                      | +35                        | 3234             |         |

**Remarks**

- (1) Azodicarbonamide formulations which fulfil the criteria of paragraph 20.4.2 (b) of the Manual of Tests and Criteria. The control and emergency temperatures shall be determined by the procedure given in 2.2.41.1.17.
- (2) "EXPLOSIVE" subsidiary risk label required (Model No. 1, see 5.2.2.2.2).
- (3) Azodicarbonamide formulations which fulfil the criteria of paragraph 20.4.2 (c) of the Manual of Tests and Criteria.
- (4) Azodicarbonamide formulations which fulfil the criteria of paragraph 20.4.2 (c) of the Manual of Tests and Criteria. The control and emergency temperatures shall be determined by the procedure given in 2.2.41.1.17.
- (5) Azodicarbonamide formulations which fulfil the criteria of paragraph 20.4.2 (d) of the Manual of Tests and Criteria.
- (6) Azodicarbonamide formulations which fulfil the criteria of paragraph 20.4.2 (d) of the Manual of Tests and Criteria. The control and emergency temperatures shall be determined by the procedure given in 2.2.41.1.17.

- (7) With a compatible diluent having a boiling point of not less than 150 °C.
- (8) See 2.2.41.1.15.
- (9) This entry applies to mixtures of esters of 2-diazo-1-naphthol-4-sulphonic acid and 2-diazo-1-naphthol-5-sulphonic acid which fulfil the criteria of paragraph 20.4.2 (d) of the *Manual of Test and Criteria*.

**2.2.42 Class 4.2 Substances liable to spontaneous combustion**

**2.2.42.1 Criteria**

2.2.42.1.1 The heading of Class 4.2 covers:

- *Pyrophoric substances* which are substances, including mixtures and solutions (liquid or solid), which even in small quantities ignite on contact with air within five minutes. These are the Class 4.2 substances the most liable to spontaneous combustion; and
- *Self-heating substances and articles* which are substances and articles, including mixtures and solutions, which, on contact with air, without energy supply, are liable to self-heating. These substances will ignite only in large amounts (kilogrammes) and after long periods of time (hours or days).

2.2.42.1.2 The substances and articles of Class 4.2 are subdivided as follows:

S Substances liable to spontaneous combustion, without subsidiary risk:

- S1 Organic, liquid;
- S2 Organic, solid;
- S3 Inorganic, liquid;
- S4 Inorganic, solid;
- S5 Organometallic;

SW Substances liable to spontaneous combustion, which, in contact with water, emit flammable gases;

SO Substances liable to spontaneous combustion, oxidizing;

ST Substances liable to spontaneous combustion, toxic:

- ST1 Organic, toxic, liquid;
- ST2 Organic, toxic, solid;
- ST3 Inorganic, toxic, liquid;
- ST4 Inorganic, toxic, solid;

SC Substances liable to spontaneous combustion, corrosive:

- SC1 Organic, corrosive, liquid;
- SC2 Organic, corrosive, solid;
- SC3 Inorganic, corrosive, liquid;
- SC4 Inorganic, corrosive, solid.

*Properties*

2.2.42.1.3 Self-heating of these substances, leading to spontaneous combustion, is caused by reaction of the substance with oxygen (in the air) and the heat developed not being conducted away rapidly enough to the surroundings. Spontaneous combustion occurs when the rate of heat production exceeds the rate of heat loss and the auto-ignition temperature is reached.

*Classification*

2.2.42.1.4 Substances and articles classified in Class 4.2 are listed in Table A of Chapter 3.2. The assignment of substances and articles not mentioned by name in Table A of Chapter 3.2 to the relevant specific N.O.S. entry of 2.2.42.3 in accordance with the provisions of Chapter 2.1 can be based on experience or the results of the test procedures in accordance with the Manual of Tests and Criteria, Part III, Section 33.3. Assignment to general N.O.S. entries of Class 4.2 shall be based on the results of the test procedures in accordance with the Manual of Tests and Criteria, Part III, section 33.3; experience shall also be taken into account when it leads to a more stringent assignment.

2.2.42.1.5 When substances or articles not mentioned by name are assigned to one of the entries listed in 2.2.42.3 on the basis of the test procedures in accordance with the Manual of Tests and Criteria, Part III, section 33.3, the following criteria shall apply:

- (a) Solids liable to spontaneous combustion (pyrophoric) shall be assigned to Class 4.2 when they ignite on falling from a height of 1 m or within five minutes;
- (b) Liquids liable to spontaneous combustion (pyrophoric) shall be assigned to Class 4.2 when:
  - (i) on being poured on an inert carrier, they ignite within five minutes, or
  - (ii) in the event of a negative result of the test according to (i), when poured on a dry, indented filter paper (Whatman No. 3 filter), they ignite or carbonize it within five minutes;
- (c) Substances in which, in a 10 cm sample cube, at 140 °C test temperature, spontaneous combustion or a rise in temperature to over 200 °C is observed within 24 hours shall be assigned to Class 4.2. This criterion is based on the temperature of the spontaneous combustion of charcoal, which is at 50 °C for a sample cube of 27 m<sup>3</sup>. Substances with a temperature of spontaneous combustion higher than 50 °C for a volume of 27 m<sup>3</sup> are not to be assigned to Class 4.2.

**NOTE 1:** *Substances carried in packages with a volume of not more than 3 m<sup>3</sup> are exempted from Class 4.2 if, tested with a 10 cm sample cube at 120 °C, no spontaneous combustion nor a rise in temperature to over 180 °C is observed within 24 hours.*

**NOTE 2:** *Substances carried in packages with a volume of not more than 450 litres are exempted from Class 4.2 if, tested with a 10 cm sample cube at 100 °C, no spontaneous combustion nor a rise in temperature to over 160 °C is observed within 24 hours.*

**NOTE 3:** *Since organometallic substances can be classified in Class 4.2 or 4.3 with additional subsidiary risks, depending on their properties, a specific classification flow chart for these substances is given in 2.3.5.*

2.2.42.1.6 If substances of Class 4.2, as a result of admixtures, come into different categories of risk from those to which the substances mentioned by name in Table A of Chapter 3.2 belong, these mixtures shall be assigned to the entries to which they belong on the basis of their actual degree of danger.

**NOTE:** *For the classification of solutions and mixtures (such as preparations and wastes), see also 2.1.3.*

- 2.2.42.1.7 On the basis of the test procedure in the Manual of Tests and Criteria, Part III, section 33.3 and the criteria set out in 2.2.42.1.5, it may also be determined whether the nature of a substance mentioned by name is such that the substance is not subject to the provisions for this Class.

*Assignment of packing groups*

- 2.2.42.1.8 Substances and articles classified under the various entries in Table A of Chapter 3.2 shall be assigned to packing groups I, II or III on the basis of test procedures of the Manual of Tests and Criteria, Part III, section 33.3, in accordance with the following criteria:

- (a) Substances liable to spontaneous combustion (pyrophoric) shall be assigned to packing group I;
- (b) Self-heating substances and articles in which, in a 2.5 cm sample cube, at 140 °C test temperature, spontaneous combustion or a rise in temperature to over 200 °C is observed within 24 hours, shall be assigned to packing group II;  
Substances with a temperature of spontaneous combustion higher than 50 °C for a volume of 450 litres are not to be assigned to packing group II;
- (c) Slightly self-heating substances in which, in a 2.5 cm sample cube, the phenomena referred to under (b) are not observed, in the given conditions, but in which in a 10 cm sample cube at 140 °C test temperature spontaneous combustion or a rise in temperature to over 200 °C is observed within 24 hours, shall be assigned to packing group III.

**2.2.42.2** *Substances not accepted for carriage*

The following substances shall not be accepted for carriage:

- UN No. 3255 tert-BUTYL HYPOCHLORITE; and
- Self-heating solids, oxidizing, assigned to UN No. 3127 unless they meet the requirements for Class 1 (see 2.1.3.7).

2.2.42.3 *List of collective entries*

|  |                  |                       |            |   |
|--|------------------|-----------------------|------------|---|
| <b>Substances liable to spontaneous combustion</b> | <b>organic</b>   | <b>liquid</b>         | <b>S1</b>  | 2845 PYROPHORIC LIQUID, ORGANIC, N.O.S.<br>3183 SELF-HEATING LIQUID, ORGANIC, N.O.S.  |
|  |                  | <b>solid</b>          | <b>S2</b>  | 1373 FIBRES or FABRICS, ANIMAL or VEGETABLE or SYNTHETIC, N.O.S. with oil<br>2006 PLASTICS, NITROCELLULOSE-BASED, SELF-HEATING, N.O.S.<br>3313 ORGANIC PIGMENTS, SELF HEATING<br>2846 PYROPHORIC SOLID, ORGANIC, N.O.S.<br>3088 SELF-HEATING SOLID, ORGANIC, N.O.S.   |
| <b>Without subsidiary risk</b>                     | <b>inorganic</b> | <b>liquid</b>         | <b>S3</b>  | 3194 PYROPHORIC LIQUID, INORGANIC, N.O.S.<br>3186 SELF-HEATING LIQUID, INORGANIC, N.O.S.  |
| <b>S</b>   |                  | <b>solid</b>          | <b>S4</b>  | 1383 PYROPHORIC METAL, N.O.S. or<br>1383 PYROPHORIC ALLOY, N.O.S.<br>1378 METAL CATALYST, WETTED with a visible excess of liquid<br>2881 METAL CATALYST, DRY<br>3189 <sup>a</sup> METAL POWDER, SELF-HEATING, N.O.S.<br>3205 ALKALINE EARTH METAL ALCOHOLATES, N.O.S.<br>3200 PYROPHORIC SOLID, INORGANIC, N.O.S.<br>3190 SELF-HEATING SOLID, INORGANIC, N.O.S. |
|  |                  | <b>organometallic</b> | <b>S5</b>  | 3392 ORGANOMETALLIC SUBSTANCE, LIQUID, PYROPHORIC<br>3391 ORGANOMETALLIC SUBSTANCE, SOLID, PYROPHORIC<br>3400 ORGANOMETALLIC SUBSTANCE, SOLID, SELF-HEATING   |
| <b>Water-reactive</b>                              |                  |                       | <b>SW</b>  | 3394 ORGANOMETALLIC SUBSTANCE, LIQUID, PYROPHORIC, WATER-REACTIVE<br>3393 ORGANOMETALLIC SUBSTANCE, SOLID, PYROPHORIC, WATER-REACTIVE   |
| <b>Oxidizing</b>                                   |                  |                       | <b>SO</b>  | 3127 SELF-HEATING SOLID, OXIDIZING, N.O.S. (not allowed, see 2.2.42.2)  |
| <b>Toxic</b>                                       | <b>organic</b>   | <b>liquid</b>         | <b>ST1</b> | 3184 SELF-HEATING LIQUID, TOXIC, ORGANIC, N.O.S.  |
|  |                  | <b>solid</b>          | <b>ST2</b> | 3128 SELF-HEATING SOLID, TOXIC, ORGANIC, N.O.S.   |
| <b>ST</b>  | <b>inorganic</b> | <b>liquid</b>         | <b>ST3</b> | 3187 SELF-HEATING LIQUID, TOXIC, INORGANIC, N.O.S.  |
|  |                  | <b>solid</b>          | <b>ST4</b> | 3191 SELF-HEATING SOLID, TOXIC, INORGANIC, N.O.S.   |
| <b>Corrosive</b>                                   | <b>organic</b>   | <b>liquid</b>         | <b>SC1</b> | 3185 SELF-HEATING LIQUID, CORROSIVE, ORGANIC, N.O.S.  |
|  |                  | <b>solid</b>          | <b>SC2</b> | 3126 SELF-HEATING SOLID, CORROSIVE, ORGANIC, N.O.S.   |
| <b>SC</b>  | <b>inorganic</b> | <b>liquid</b>         | <b>SC3</b> | 3188 SELF-HEATING LIQUID, CORROSIVE, INORGANIC, N.O.S.  |
|  |                  | <b>solid</b>          | <b>SC4</b> | 3206 ALKALI METAL ALCOHOLATES, SELF-HEATING, CORROSIVE, N.O.S.<br>3192 SELF-HEATING SOLID, CORROSIVE, INORGANIC, N.O.S.   |

<sup>a</sup> Dust and powder of metals, non toxic in a non-spontaneous combustible form which nevertheless, in contact with water, emit flammable gases, are substances of Class 4.3.

**2.2.43 Class 4.3 Substances which, in contact with water, emit flammable gases**

**2.2.43.1 Criteria**

2.2.43.1.1 The heading of Class 4.3 covers substances which react with water to emit flammable gases liable to form explosive mixtures with air, and articles containing such substances.

2.2.43.1.2 Substances and articles of Class 4.3 are subdivided as follows:

W Substances which, in contact with water, emit flammable gases, without subsidiary risk, and articles containing such substances:

- W1 Liquid;
- W2 Solid;
- W3 Articles;

WF1 Substances which, in contact with water, emit flammable gases, liquid, flammable;

WF2 Substances which, in contact with water, emit flammable gases, solid, flammable;

WS Substances which, in contact with water, emit flammable gases, solid, self-heating;

WO Substances which, in contact with water, emit flammable gases, oxidizing, solid;

WT Substances which, in contact with water, emit flammable gases, toxic:

- WT1 Liquid;
- WT2 Solid;

WC Substances which, in contact with water, emit flammable gases, corrosive:

- WC1 Liquid;
- WC2 Solid;

WFC Substances which, in contact with water, emit flammable gases, flammable, corrosive.

*Properties*

2.2.43.1.3 Certain substances in contact with water may emit flammable gases that can form explosive mixtures with air. Such mixtures are easily ignited by all ordinary sources of ignition, for example naked lights, sparking handtools or unprotected light bulbs. The resulting blast wave and flames may endanger people and the environment. The test method referred to in 2.2.43.1.4 below is used to determine whether the reaction of a substance with water leads to the development of a dangerous amount of gases which may be flammable. This test method shall not be applied to pyrophoric substances.

*Classification*

2.2.43.1.4 Substances and articles classified in Class 4.3 are listed in Table A of Chapter 3.2. The assignment of substances and articles not mentioned by name in Table A of Chapter 3.2 to the relevant entry of 2.2.43.3 in accordance with the provisions of Chapter 2.1 shall be based on the results of the test procedure in accordance with the Manual of Tests and Criteria, Part III, Section 33.4; experience shall also be taken into account when it leads to a more stringent assignment.

2.2.43.1.5 When substances not mentioned by name are assigned to one of the entries listed in 2.2.43.3 on the basis of the test procedure in accordance with the Manual of Tests and Criteria, Part III, Section 33.4, the following criteria shall apply:

A substance shall be assigned to Class 4.3 if:

- (a) spontaneous ignition of the gas emitted takes place in any step of the test procedure; or
- (b) there is an evolution of flammable gas at a rate greater than 1 litre per kilogram of the substance to be tested per hour.

*NOTE: Since organometallic substances can be classified in Classes 4.2 or 4.3 with additional subsidiary risks, depending on their properties, a specific classification flow chart for these substances is given in 2.3.5.*

2.2.43.1.6 If substances of Class 4.3, as a result of admixtures, come into different categories of risk from those to which the substances mentioned by name in Table A of Chapter 3.2 belong, these mixtures shall be assigned to the entries to which they belong on the basis of their actual degree of danger.

*NOTE: For the classification of solutions and mixtures (such as preparations and wastes) see also 2.1.3.*

2.2.43.1.7 On the basis of the test procedures in accordance with the Manual of Tests and Criteria, Part III, Section 33.4, and the criteria set out in paragraph 2.2.43.1.5, it may also be determined whether the nature of a substance mentioned by name is such that the substance is not subject to the provisions for this Class.

*Assignment of packing groups*

2.2.43.1.8 Substances and articles classified under the various entries in Table A of Chapter 3.2 shall be assigned to packing groups I, II or III on the basis of test procedures of the Manual of Tests and Criteria, Part III, section 33.4, in accordance with the following criteria:

- (a) Packing group I shall be assigned to any substance which reacts vigorously with water at ambient temperature and generally demonstrates a tendency for the gas produced to ignite spontaneously, or one which reacts readily with water at ambient temperatures such that the rate of evolution of flammable gas is equal to or greater than 10 litres per kilogram of substance over any one minute period;
- (b) Packing group II shall be assigned to any substance which reacts readily with water at ambient temperature such that the maximum rate of evolution of flammable gas is equal to or greater than 20 litres per kilogram of substance per hour, and which does not meet the criteria of packing group I;
- (c) Packing group III shall be assigned to any substance which reacts slowly with water at ambient temperature such that the maximum rate of evolution of flammable gas is greater than 1 litre per kilogram of substance per hour, and which does not meet the criteria of packing groups I or II.

#### **2.2.43.2** *Substances not accepted for carriage*

Water-reactive solids, oxidizing, assigned to UN No. 3133, shall not be accepted for carriage unless they meet the requirements for Class 1 (see also 2.1.3.7).



2.2.43.3 *List of collective entries*

|  |                                |                 |   |
|--|--------------------------------|-----------------|---|
| <b>Substances which, in contact with water, emit flammable gases</b> | <b>liquid</b>                  | <b>W1</b>       | 1389 ALKALI METAL AMALGAM, LIQUID<br>1391 ALKALI METAL DISPERSION having a flash-point above 60 °C or<br>1391 ALKALINE EARTH METAL DISPERSION having a flash-point above 60 °C<br>1392 ALKALINE EARTH METAL AMALGAM, LIQUID<br>1420 POTASSIUM METAL ALLOYS, LIQUID<br>1421 ALKALI METAL ALLOY, LIQUID, N.O.S.<br>1422 POTASSIUM SODIUM ALLOYS, LIQUID<br>3398 ORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE<br>3148 WATER-REACTIVE LIQUID, N.O.S.  |
|  | <b>Without subsidiary risk</b> | <b>solid</b>    | <b>W2<sup>a</sup></b>   |
| <b>W</b>   |                                |                 | 1390 ALKALI METAL AMIDES<br>3401 ALKALI METAL AMALGAM, SOLID<br>3402 ALKALINE EARTH METAL AMALGAM, SOLID<br>3170 ALUMINIUM SMELTING BY-PRODUCTS or<br>3170 ALUMINIUM REMELTING BY-PRODUCTS<br>3403 POTASSIUM METAL ALLOYS, SOLID<br>3404 POTASSIUM SODIUM ALLOYS, SOLID<br>1393 ALKALINE EARTH METAL ALLOY, N.O.S.<br>1409 METAL HYDRIDES, WATER-REACTIVE, N.O.S.<br>3208 METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S.<br>3395 ORGANOMETALLIC SUBSTANCE, SOLID, WATER-REACTIVE<br>2813 WATER-REACTIVE SOLID, N.O.S. |
|  |                                | <b>articles</b> | <b>W3</b>   |
|  |                                |                 | 3292 BATTERIES, CONTAINING SODIUM or<br>3292 CELLS, CONTAINING SODIUM   |
| <b>Liquid, flammable</b>   |                                |                 | <b>WF1</b>  |
|  |                                |                 | 1391 ALKALI METAL DISPERSION having a flash-point of not more than 60 °C or<br>1391 ALKALINE EARTH METAL DISPERSION having a flash-point of not more than 60 °C<br>3399 ORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE, FLAMMABLE   |
| <b>Solid, flammable</b>  |                                |                 | <b>WF2</b>  |
|  |                                |                 | 3396 ORGANOMETALLIC SUBSTANCE, SOLID, WATER-REACTIVE, FLAMMABLE<br>3132 WATER-REACTIVE SOLID, FLAMMABLE, N.O.S.   |
| <b>Solid, self-heating</b>   |                                |                 | <b>WS<sup>b</sup></b>   |
|  |                                |                 | 3397 ORGANOMETALLIC SUBSTANCE, SOLID, WATER-REACTIVE, SELF-HEATING<br>3209 METALLIC SUBSTANCE, WATER-REACTIVE, SELF-HEATING, N.O.S.<br>3135 WATER-REACTIVE SOLID, SELF-HEATING, N.O.S.  |
| <b>Solid, oxidizing</b>  |                                |                 | <b>WO</b>   |
|  |                                |                 | 3133 WATER-REACTIVE SOLID, OXIDIZING, N.O.S. (not allowed, see 2.2.43.2)  |
| <b>Toxic</b>   | <b>liquid</b>                  |                 | <b>WT1</b>  |
|  |                                |                 | 3130 WATER-REACTIVE LIQUID, TOXIC, N.O.S.   |
| <b>WT</b>  | <b>solid</b>                   |                 | <b>WT2</b>  |
|  |                                |                 | 3134 WATER-REACTIVE SOLID, TOXIC, N.O.S.  |
| <b>Corrosive</b>   | <b>liquid</b>                  |                 | <b>WC1</b>  |
|  |                                |                 | 3129 WATER-REACTIVE LIQUID, CORROSIVE, N.O.S.   |
| <b>WC</b>  | <b>solid</b>                   |                 | <b>WC2</b>  |
|  |                                |                 | 3131 WATER-REACTIVE SOLID, CORROSIVE, N.O.S.  |
| <b>Flammable, corrosive</b>  |                                |                 | <b>WFC<sup>c</sup></b>  |
|  |                                |                 | 2988 CHLOROSILANES, WATER-REACTIVE, FLAMMABLE, CORROSIVE, NO.S.<br>(No other collective entry with this classification code available, if need be, classification under a collective entry with a classification code to be determined according to the table of precedence of hazard in 2.1.3.10.)   |

<sup>a</sup> Metals and metal alloys which, in contact with water, do not emit flammable gases and are not pyrophoric or self-heating, but which are readily flammable, are substances of Class 4.1. Alkaline-earth metals and alkaline-earth metal alloys in pyrophoric form are substances of Class 4.2. Dust and powders of metals in pyrophoric form are substances of Class 4.2. Metals and metal alloys in pyrophoric form are substances of Class 4.2. Compounds of phosphorus with heavy metals such as iron, copper, etc. are not subject to the provisions of ADN.

<sup>b</sup> Metals and metal alloys in pyrophoric form are substances of Class 4.2.

<sup>c</sup> Chlorosilanes, having a flash-point of less than 23 °C and which, in contact with water, do not emit flammable gases, are substances of Class 3. Chlorosilanes, having a flash-point equal to or greater than 23 °C and which, in contact with water, do not emit flammable gases, are substances of Class 8.

**2.2.51 Class 5.1 Oxidizing substances**

**2.2.51.1 Criteria**

2.2.51.1.1 The heading of Class 5.1 covers substances which, while in themselves not necessarily combustible, may, generally by yielding oxygen, cause or contribute to the combustion of other material, and articles containing such substances.

2.2.51.1.2 The substances of Class 5.1 and articles containing such substances are subdivided as follows:

O Oxidizing substances without subsidiary risk or articles containing such substances:

- O1 Liquid;
- O2 Solid;
- O3 Articles;

OF Oxidizing substances, solid, flammable;

OS Oxidizing substances, solid, self-heating;

OW Oxidizing substances, solid which, in contact with water, emit flammable gases;

OT Oxidizing substances, toxic:

- OT1 Liquid;
- OT2 Solid;

OC Oxidizing substances, corrosive:

- OC1 Liquid;
- OC2 Solid;

OTC Oxidizing substances, toxic, corrosive.

2.2.51.1.3 Substances and articles classified in Class 5.1 are listed in Table A of Chapter 3.2. The assignment of substances and articles not mentioned by name in Table A of Chapter 3.2 to the relevant entry of 2.2.51.3 in accordance with the provisions of Chapter 2.1 can be based on the tests, methods and criteria in paragraphs 2.2.51.1.6 to 2.2.51.1.9 below and the Manual of Tests and Criteria, Part III, Section 34.4. In the event of divergence between test results and known experience, judgement based on known experience shall take precedence over test results.

2.2.51.1.4 If substances of Class 5.1, as a result of admixtures, come into different categories of risk from those to which the substances mentioned by name in Table A of Chapter 3.2 belong, these mixtures or solutions shall be assigned to the entries to which they belong on the basis of their actual degree of danger.

***NOTE:** For the classification of solutions and mixtures (such as preparations and wastes), see also Section 2.1.3.*

2.2.51.1.5 On the basis of the test procedures in the Manual of Tests and Criteria, Part III, Section 34.4 and the criteria set out in 2.2.51.1.6-2.2.51.1.9 it may also be determined whether the nature of a substance mentioned by name in Table A of Chapter 3.2 is such that the substance is not subject to the provisions for this class.

### ***Oxidizing solids***

#### *Classification*

2.2.51.1.6 When oxidizing solid substances not mentioned by name in Table A of Chapter 3.2 are assigned to one of the entries listed in 2.2.51.3 on the basis of the test procedure in accordance with the Manual of Tests and Criteria, Part III, sub-section 34.4.1, the following criteria shall apply:

A solid substance shall be assigned to Class 5.1 if, in the 4:1 or the 1:1 sample-to-cellulose ratio (by mass) tested, it ignites or burns or exhibits mean burning times equal to or less than that of a 3:7 mixture (by mass) of potassium bromate and cellulose.

#### *Assignment of packing groups*

2.2.51.1.7 Oxidizing solids classified under the various entries in Table A of Chapter 3.2 shall be assigned to packing groups I, II or III on the basis of test procedures of the Manual of Tests and Criteria, Part III, sub-section 34.4.1, in accordance with the following criteria:

- (a) Packing group I: any substance which, in the 4:1 or 1:1 sample-to-cellulose ratio (by mass) tested, exhibits a mean burning time less than the mean burning time of a 3:2 mixture, by mass, of potassium bromate and cellulose;
- (b) Packing group II: any substance which, in the 4:1 or 1:1 sample-to-cellulose ratio (by mass) tested, exhibits a mean burning time equal to or less than the mean burning time of a 2:3 mixture (by mass) of potassium bromate and cellulose and the criteria for packing group I are not met;
- (c) Packing group III: any substance which, in the 4:1 or 1:1 sample-to-cellulose ratio (by mass) tested, exhibits a mean burning time equal to or less than the mean burning time of a 3:7 mixture (by mass) of potassium bromate and cellulose and the criteria for packing groups I and II are not met.

### ***Oxidizing liquids***

#### *Classification*

2.2.51.1.8 When oxidizing liquid substances not mentioned by name in Table A of Chapter 3.2 are assigned to one of the entries listed in sub-section 2.2.51.3 on the basis of the test procedure in accordance with the Manual of Tests and Criteria, Part III, sub-section 34.4.2, the following criteria shall apply:

A liquid substance shall be assigned to Class 5.1 if, in the 1:1 mixture, by mass, of substance and cellulose tested, it exhibits a pressure rise of 2070 kPa gauge or more and a mean pressure rise time equal to or less than the mean pressure rise time of a 1:1 mixture, by mass, of 65% aqueous nitric acid and cellulose.

#### *Assignment of packing groups*

2.2.51.1.9 Oxidizing liquids classified under the various entries in Table A of Chapter 3.2 shall be assigned to packing groups I, II or III on the basis of test procedures of the Manual of Tests and Criteria, Part III, section 34.4.2, in accordance with the following criteria:

- (a) Packing group I: any substance which, in the 1:1 mixture, by mass, of substance and cellulose tested, spontaneously ignites; or the mean pressure rise time of a 1:1 mixture, by mass, of substance and cellulose is less than that of a 1:1 mixture, by mass, of 50% perchloric acid and cellulose;
- (b) Packing group II: any substance which, in the 1:1 mixture, by mass, of substance and cellulose tested, exhibits a mean pressure rise time less than or equal to the mean pressure rise time of a 1:1 mixture, by mass, of 40% aqueous sodium chlorate solution and cellulose; and the criteria for packing group I are not met;
- (c) Packing group III: any substance which, in the 1:1 mixture, by mass, of substance and cellulose tested, exhibits a mean pressure rise time less than or equal to the mean pressure rise time of a 1:1 mixture, by mass, of 65% aqueous nitric acid and cellulose; and the criteria for packing groups I and II are not met.

### **2.2.51.2** *Substances not accepted for carriage*

2.2.51.2.1 The chemically unstable substances of Class 5.1 shall not be accepted for carriage unless the necessary steps have been taken to prevent their dangerous decomposition or polymerization during carriage. To this end it shall in particular be ensured that receptacles and tanks do not contain any material liable to promote these reactions.

2.2.51.2.2 The following substances and mixtures shall not be accepted for carriage:

- oxidizing solids, self-heating, assigned to UN No. 3100, oxidizing solids, water-reactive, assigned to UN No. 3121 and oxidizing solids, flammable, assigned to UN No. 3137, unless they meet the requirements for Class 1 (see also 2.1.3.7);
- hydrogen peroxide, not stabilized or hydrogen peroxide, aqueous solutions, not stabilized containing more than 60 % hydrogen peroxide;
- tetranitromethane not free from combustible impurities;
- perchloric acid solutions containing more than 72 % (mass) acid, or mixtures of perchloric acid with any liquid other than water;
- chloric acid solution containing more than 10 % chloric acid or mixtures of chloric acid with any liquid other than water;
- halogenated fluor compounds other than UN Nos. 1745 BROMINE PENTAFLUORIDE; 1746 BROMINE TRIFLUORIDE and 2495 IODINE PENTAFLUORIDE of Class 5.1 as well as UN Nos. 1749 CHLORINE TRIFLUORIDE and 2548 CHLORINE PENTAFLUORIDE of Class 2;
- ammonium chlorate and its aqueous solutions and mixtures of a chlorate with an ammonium salt;
- ammonium chlorite and its aqueous solutions and mixtures of a chlorite with an ammonium salt;
- mixtures of a hypochlorite with an ammonium salt;
- ammonium bromate and its aqueous solutions and mixtures of a bromate with an ammonium salt;

- ammonium permanganate and its aqueous solutions and mixtures of a permanganate with an ammonium salt;
- ammonium nitrate containing more than 0.2 % combustible substances (including any organic substance calculated as carbon) unless it is a constituent of a substance or article of Class 1;
- fertilizers having an ammonium nitrate content (in determining the ammonium nitrate content, all nitrate ions for which a molecular equivalent of ammonium ions is present in the mixture shall be calculated as ammonium nitrate) or a content in combustible substances exceeding the values specified in special provision 307 except under the conditions applicable to Class 1;
- ammonium nitrite and its aqueous solutions and mixtures of an inorganic nitrite with an ammonium salt;
- mixtures of potassium nitrate, sodium nitrite and an ammonium salt.

2.2.51.3 *List of collective entries*

|                                |                 |            |   |
|--------------------------------|-----------------|------------|---|
| <b>Oxidizing substances</b>    | <b>liquid</b>   | <b>O1</b>  | 3210 CHLORATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.<br>3211 PERCHLORATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.<br>3213 BROMATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.<br>3214 PERMANGANATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.<br>3216 PERSULPHATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.<br>3218 NITRATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.<br>3219 NITRITES, INORGANIC, AQUEOUS SOLUTION, N.O.S.<br>3139 OXIDIZING LIQUID, N.O.S. |
|                                |                 |            | 1450 BROMATES, INORGANIC, N.O.S.<br>1461 CHLORATES, INORGANIC, N.O.S.<br>1462 CHLORITES, INORGANIC, N.O.S.<br>1477 NITRATES, INORGANIC, N.O.S.<br>1481 PERCHLORATES, INORGANIC, N.O.S.<br>1482 PERMANGANATES, INORGANIC, N.O.S.<br>1483 PEROXIDES, INORGANIC, N.O.S.<br>2627 NITRITES, INORGANIC, N.O.S.<br>3212 HYPOCHLORITES, INORGANIC, N.O.S.<br>3215 PERSULPHATES, INORGANIC, N.O.S.<br>1479 OXIDIZING SOLID, N.O.S.             |
| <b>Without subsidiary risk</b> | <b>solid</b>    | <b>O2</b>  |   |
| <b>O</b>                       |                 |            |   |
|                                | <b>articles</b> | <b>O3</b>  | 3356 OXYGEN GENERATOR, CHEMICAL   |
| <b>Solid, flammable</b>        |                 | <b>OF</b>  | 3137 OXIDIZING SOLID, FLAMMABLE, N.O.S. (not allowed, see 2.2.51.2)   |
| <b>Solid, self-heating</b>     |                 | <b>OS</b>  | 3100 OXIDIZING SOLID, SELF-HEATING, N.O.S. (not allowed, see 2.2.51.2)  |
| <b>Solid, water reactive</b>   |                 | <b>OW</b>  | 3121 OXIDIZING SOLID, WATER REACTIVE, N.O.S. (not allowed, see 2.2.51.2)  |
| <b>Toxic</b>                   | <b>liquid</b>   | <b>OT1</b> | 3099 OXIDIZING LIQUID, TOXIC, N.O.S.  |
| <b>OT</b>                      | <b>solid</b>    | <b>OT2</b> | 3087 OXIDIZING SOLID, TOXIC, N.O.S.   |
| <b>Corrosive</b>               | <b>liquid</b>   | <b>OC1</b> | 3098 OXIDIZING LIQUID, CORROSIVE, N.O.S.  |
| <b>OC</b>                      | <b>solid</b>    | <b>OC2</b> | 3085 OXIDIZING SOLID, CORROSIVE, N.O.S.   |
| <b>Toxic, corrosive</b>        |                 | <b>OTC</b> | (No collective entry with this classification code available; if need be, classification under a collective entry with a classification code to be determined according to the table of precedence of hazard in 2.1.3.10.)  |

**2.2.52 Class 5.2 Organic peroxides****2.2.52.1 Criteria**

2.2.52.1.1 The heading of Class 5.2 covers organic peroxides and formulations of organic peroxides.

2.2.52.1.2 The substances of Class 5.2 are subdivided as follows:

- P1 Organic peroxides, not requiring temperature control;  
 P2 Organic peroxides, requiring temperature control.

*Definition*

2.2.52.1.3 *Organic peroxides* are organic substances which contain the bivalent -O-O- structure and may be considered derivatives of hydrogen peroxide, where one or both of the hydrogen atoms have been replaced by organic radicals.

*Properties*

2.2.52.1.4 Organic peroxides are liable to exothermic decomposition at normal or elevated temperatures. The decomposition can be initiated by heat, contact with impurities (e.g. acids, heavy-metal compounds, amines), friction or impact. The rate of decomposition increases with temperature and varies with the organic peroxide formulation. Decomposition may result in the evolution of harmful, or flammable, gases or vapours. For certain organic peroxides the temperature shall be controlled during carriage. Some organic peroxides may decompose explosively, particularly if confined. This characteristic may be modified by the addition of diluents or by the use of appropriate packagings. Many organic peroxides burn vigorously. Contact of organic peroxides with the eyes is to be avoided. Some organic peroxides will cause serious injury to the cornea, even after brief contact, or will be corrosive to the skin.

**NOTE:** Test methods for determining the flammability of organic peroxides are set out in the *Manual of Tests and Criteria, Part III, sub-section 32.4*. Because organic peroxides may react vigorously when heated, it is recommended to determine their flash-point using small sample sizes such as described in ISO 3679:1983.

*Classification*

2.2.52.1.5 Any organic peroxide shall be considered for classification in Class 5.2 unless the organic peroxide formulation contains:

- (a) not more than 1.0 % available oxygen from the organic peroxides when containing not more than 1.0 % hydrogen peroxide;
- (b) not more than 0.5 % available oxygen from the organic peroxides when containing more than 1.0 % but not more than 7.0 % hydrogen peroxide.

**NOTE:** The available oxygen content (%) of an organic peroxide formulation is given by the formula

$$16 \times 3 (n_i \times c_i / m_i)$$

where:

- $n_i$  = number of peroxygen groups per molecule of organic peroxide  $i$ ;  
 $c_i$  = concentration (mass %) of organic peroxide  $i$ ; and  
 $m_i$  = molecular mass of organic peroxide  $i$ .

2.2.52.1.6 Organic peroxides are classified into seven types according to the degree of danger they present. The types of organic peroxide range from type A, which is not accepted for carriage in the packaging in which it is tested, to type G, which is not subject to the provisions of Class 5.2. The classification of types B to F is directly related to the maximum quantity allowed in one packaging. The principles to be applied to the classification of substances not listed in 2.2.52.4 are set out in the Manual of Tests and Criteria, Part II.

2.2.52.1.7 Organic peroxides which have already been classified and are already permitted for carriage in packagings are listed in 2.2.52.4, those already permitted for carriage in IBCs are listed in 4.1.4.2 of ADR, packing instruction IBC520 and those already permitted for carriage in tanks in accordance with Chapters 4.2 and 4.3 of ADR are listed in 4.2.5.2 of ADR, portable tank instruction T23. Each permitted substance listed is assigned to a generic entry of Table A of Chapter 3.2 (UN Nos. 3101 to 3120) and appropriate subsidiary risks and remarks providing relevant transport information are given.

These generic entries specify:

- the type (B to F) of organic peroxide (see 2.2.52.1.6 above);
- physical state (liquid/solid); and
- temperature control (when required), see 2.2.52.1.15 to 2.2.52.1.18.

Mixtures of these formulations may be classified as the same type of organic peroxide as that of the most dangerous component and be carried under the conditions of carriage given for this type. However, as two stable components can form a thermally less stable mixture, the self-accelerating decomposition temperature (SADT) of the mixture shall be determined and, if necessary, the control and emergency temperatures derived from the SADT in accordance paragraph 2.2.52.1.16.

2.2.52.1.8 Classification of organic peroxides, formulations or mixtures of organic peroxides not listed in 2.2.52.4, 4.1.4.2 of ADR, packing instruction IBC520 or 4.2.5.2 of ADR, portable tank instruction T23, and assignment to a collective entry shall be made by the competent authority of the country of origin. The statement of approval shall contain the classification and the relevant conditions of carriage. If the country of origin is not a Contracting Party to ADN, the classification and conditions of carriage shall be recognized by the competent authority of the first country Contracting Party to ADN reached by the consignment.

2.2.52.1.9 Samples of organic peroxides or formulations of organic peroxides not listed in 2.2.52.4, for which a complete set of test results is not available and which are to be carried for further testing or evaluation, shall be assigned to one of the appropriate entries for organic peroxides type C provided the following conditions are met:

- the available data indicate that the sample would be no more dangerous than organic peroxides type B;
- the sample is packaged in accordance with packing method OP2 of 4.1.4.1 of ADR and the quantity per cargo transport unit is limited to 10 kg;
- the available data indicate that the control temperature, if any, is sufficiently low to prevent any dangerous decomposition and sufficiently high to prevent any dangerous phase separation.



*Desensitization of organic peroxides*

- 2.2.52.1.10 In order to ensure safety during carriage, organic peroxides are in many cases desensitized by organic liquids or solids, inorganic solids or water. Where a percentage of a substance is stipulated, this refers to the percentage by mass, rounded to the nearest whole number. In general, desensitization shall be such that, in case of spillage, the organic peroxide will not concentrate to a dangerous extent.
- 2.2.52.1.11 Unless otherwise stated for the individual organic peroxide formulation, the following definition(s) shall apply to diluents used for desensitization:
- diluents type A are organic liquids which are compatible with the organic peroxide and which have a boiling point of not less than 150 °C. Type A diluents may be used for desensitizing all organic peroxides.
  - diluents type B are organic liquids which are compatible with the organic peroxide and which have a boiling point of less than 150 °C but not less than 60 °C and a flash-point of not less than 5 °C.
- Type B diluents may be used for desensitization of all organic peroxides provided that the boiling point of the liquid is at least 60 °C higher than the SADT in a 50 kg package.
- 2.1.52.1.12 Diluents, other than type A or type B, may be added to organic peroxide formulations as listed in 2.2.52.4 provided that they are compatible. However, replacement of all or part of a type A or type B diluent by another diluent with differing properties requires that the organic peroxide formulation be re-assessed in accordance with the normal acceptance procedure for Class 5.2.
- 2.2.52.1.13 Water may only be used for the desensitization of organic peroxides which are listed in 2.2.52.4 or in the competent authority decision according to 2.2.52.1.8 as being "with water" or "as a stable dispersion in water". Samples of organic peroxides or formulations of organic peroxides not listed in 2.2.52.4 may also be desensitized with water provided the requirements of 2.2.52.1.9 are met.
- 2.2.52.1.14 Organic and inorganic solids may be used for desensitization of organic peroxides provided that they are compatible. Compatible liquids and solids are those which have no detrimental influence on the thermal stability and hazard type of the organic peroxide formulation.

*Temperature control requirements*

- 2.2.52.1.15 Certain organic peroxides may only be carried under temperature-controlled conditions. The control temperature is the maximum temperature at which the organic peroxide can be safely carried. It is assumed that the temperature of the immediate surroundings of a package only exceeds 55 °C during carriage for a relatively short time in a 24 hour period. In the event of loss of temperature control, it may be necessary to implement emergency procedures. The emergency temperature is the temperature at which such procedures shall be implemented.
- 2.2.52.1.16 The control and emergency temperatures are derived from the SADT which is defined as the lowest temperature at which self-accelerating decomposition may occur with a substance in the packaging as used during carriage (see Table 1). The SADT shall be determined in order to decide whether a substance shall be subjected to temperature control during carriage. Provisions for the determination of the SADT are given in the Manual of Tests and Criteria, Part II, Sections 20 and 28.4.

**Table 1: Derivation of control and emergency temperatures**

| Type of receptacle         | SADT <sup>a</sup>      | Control temperature | Emergency temperature |
|----------------------------|------------------------|---------------------|-----------------------|
| Single packagings and IBCs | 20 °C or less          | 20 °C below SADT    | 10 °C below SADT      |
|                            | over 20 °C to 35 °C    | 15 °C below SADT    | 10 °C below SADT      |
|                            | over 35 °C             | 10 °C below SADT    | 5 °C below SADT       |
| Tanks                      | Not greater than 50 °C | 10 °C below SADT    | 5 °C below SADT       |

<sup>a</sup> *SADT of the substance as packaged for carriage.*

2.2.52.1.17 The following organic peroxides shall be subject to temperature control during carriage:

- organic peroxides types B and C with an SADT ≤ 50 °C;
- organic peroxides type D showing a medium effect when heated under confinement with an SADT ≤ 50 °C or showing a low or no effect when heated under confinement with an SADT ≤ 45 °C; and
- organic peroxides types E and F with an SADT ≤ 45 °C.

*NOTE: Provisions for the determination of the effects of heating under confinement are given in the Manual of Tests and Criteria, Part II, Section 20 and Sub-section 28.4.*

2.2.52.1.18 Where applicable, control and emergency temperatures are listed in 2.2.52.4. The actual temperature during carriage may be lower than the control temperature but shall be selected so as to avoid dangerous separation of phases.

#### **2.2.52.2 Substances not accepted for carriage**

Organic peroxides, type A, shall not be accepted for carriage under the provisions of Class 5.2 (see Manual of Tests and Criteria, Part II, paragraph 20.4.3 (a)).

**2.2.52.3** *List of collective entries*

|                                      |  |                                 |   |  |  |
|--------------------------------------|--|---------------------------------|---|--|--|
| <b>Organic peroxides</b>             |  | ORGANIC PEROXIDE TYPE A, LIQUID | }   | Not accepted for carriage,<br>see 2.2.52.2                                 |  |
|                                      |  | ORGANIC PEROXIDE TYPE A, SOLID  |   |  |  |
|                                      |  | 3101                            | ORGANIC PEROXIDE TYPE B, LIQUID                         |  |  |
|                                      |  | 3102                            | ORGANIC PEROXIDE TYPE B, SOLID                          |  |  |
|                                      |  | 3103                            | ORGANIC PEROXIDE TYPE C, LIQUID                         |  |  |
|                                      |  | 3104                            | ORGANIC PEROXIDE TYPE C, SOLID                          |  |  |
|                                      | <b>Not requiring temperature control</b> | <b>P1</b>                       | 3105  | ORGANIC PEROXIDE TYPE D, LIQUID  |  |
|                                      |  |                                 | 3106  | ORGANIC PEROXIDE TYPE D, SOLID   |  |
|                                      |  |                                 | 3107  | ORGANIC PEROXIDE TYPE E, LIQUID  |  |
|                                      |  |                                 | 3108  | ORGANIC PEROXIDE TYPE E, SOLID   |  |
|                                      |  |                                 | 3109  | ORGANIC PEROXIDE TYPE F, LIQUID  |  |
|                                      |  | 3110                            | ORGANIC PEROXIDE TYPE F, SOLID                          |  |  |
|                                      |  |                                 | ORGANIC PEROXIDE TYPE G, LIQUID                         | } Not subject to the provisions<br>applicable to Class 5.2, see 2.2.52.1.6 |  |
|                                      |  |                                 | ORGANIC PEROXIDE TYPE G, SOLID                          |  |  |
|                                      |  | 3111                            | ORGANIC PEROXIDE TYPE B, LIQUID, TEMPERATURE CONTROLLED |  |  |
|                                      |  | 3112                            | ORGANIC PEROXIDE TYPE B, SOLID, TEMPERATURE CONTROLLED  |  |  |
|                                      |  | 3113                            | ORGANIC PEROXIDE TYPE C, LIQUID, TEMPERATURE CONTROLLED |  |  |
|                                      |  | 3114                            | ORGANIC PEROXIDE TYPE C, SOLID, TEMPERATURE CONTROLLED  |  |  |
|                                      |  | 3115                            | ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED |  |  |
|                                      |  | 3116                            | ORGANIC PEROXIDE TYPE D, SOLID, TEMPERATURE CONTROLLED  |  |  |
|                                      |  | 3117                            | ORGANIC PEROXIDE TYPE E, LIQUID, TEMPERATURE CONTROLLED |  |  |
|                                      |  | 3118                            | ORGANIC PEROXIDE TYPE E, SOLID, TEMPERATURE CONTROLLED  |  |  |
|                                      |  | 3119                            | ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED |  |  |
|                                      |  | 3120                            | ORGANIC PEROXIDE TYPE F, SOLID, TEMPERATURE CONTROLLED  |  |  |
| <b>Requiring temperature control</b> | <b>P2</b>                                |                                 |   |  |  |

**2.2.52.4** *List of currently assigned organic peroxides in packagings*

In the column "Packing Method", codes "OP1" to "OP8" refer to packing methods in 4.1.4.1 of ADR packing instruction P520 (see also 4.1.7.1 of ADR). Organic peroxides to be carried shall fulfill the classification and the control and emergency temperatures (derived from the SADT) as listed. For substances permitted in IBCs, see 4.1.4.2 of ADR, packing instruction IBC520 and, for those permitted in tanks according to Chapters 4.2 and 4.3 of ADR, see 4.2.5.2 of ADR, portable tank instruction T23.

| ORGANIC PEROXIDE                                 | Concentration (%) | Diluent type A (%) | Diluent type B (%) 1) | Inert solid (%) | Water | Packing Method | Control temperature (°C) | Emergency temperature (°C) | Number (Generic entry) | Subsidiary risks and remarks |
|--|-------------------|--------------------|-----------------------|-----------------|-------|----------------|--------------------------|----------------------------|------------------------|------------------------------|
| ACETYL ACETONE PEROXIDE                          | ≤ 42              | ≥ 48               |                       |                 | ≥ 8   | OP7            |                          |                            | 3105                   | 2)                           |
| "  | ≤ 32 as a paste   |                    |                       |                 |       | OP7            |                          |                            | 3106                   | 20)                          |
| ACETYL CYCLOHEXANESULPHONYL PEROXIDE             | ≤ 82              |                    |                       |                 | ≥ 12  | OP4            | -10                      | 0                          | 3112                   | 3)                           |
| "  | ≤ 32              |                    | ≥ 68                  |                 |       | OP7            | -10                      | 0                          | 3115                   |                              |
| tert-AMYL HYDROPEROXIDE                          | ≤ 88              | ≥ 6                |                       |                 | ≥ 6   | OP8            |                          |                            | 3107                   |                              |
| tert-AMYL PEROXYACETATE                          | ≤ 62              | ≥ 38               |                       |                 |       | OP7            |                          |                            | 3105                   |                              |
| tert-AMYL PEROXYBENZOATE                         | ≤ 100             |                    |                       |                 |       | OP5            |                          |                            | 3103                   |                              |
| tert-AMYL PEROXY-2-ETHYLHEXANOATE                | ≤ 100             |                    |                       |                 |       | OP7            | +20                      | +25                        | 3115                   |                              |
| tert-AMYL PEROXY-2-ETHYLHEXYL CARBONATE          | ≤ 100             |                    |                       |                 |       | OP7            |                          |                            | 3105                   |                              |
| tert-AMYL PEROXY ISOPROPYL CARBONATE             | ≤ 77              | ≥ 23               |                       |                 |       | OP5            |                          |                            | 3103                   |                              |
| tert-AMYL PEROXYNEODECANOATE                     | ≤ 77              |                    | ≥ 23                  |                 |       | OP7            | 0                        | +10                        | 3115                   |                              |
| "  | ≤ 47              | ≥ 53               |                       |                 |       | OP8            | 0                        | +10                        | 3119                   |                              |
| tert-AMYL PEROXYPIVALATE                         | ≤ 77              |                    | ≥ 23                  |                 |       | OP5            | +10                      | +15                        | 3113                   |                              |
| tert-AMYLPEROXY-3,5,5-TRIMETHYLHEXANOATE         | ≤ 100             |                    |                       |                 |       | OP7            |                          |                            | 3105                   | 3)                           |
| tert-BUTYL CUMYL PEROXIDE                        | > 42 – 100        |                    |                       |                 |       | OP8            |                          |                            | 3107                   |                              |
| "  | ≤ 52              |                    |                       | ≥ 48            |       | OP8            |                          |                            | 3108                   |                              |
| n-BUTYL-4,4-DI-(tert-BUTYLPEROXY)VALERATE        | > 52 – 100        |                    |                       |                 |       | OP5            |                          |                            | 3103                   |                              |
| "  | ≤ 52              |                    |                       | ≥ 48            |       | OP8            |                          |                            | 3108                   |                              |
| tert-BUTYL HYDROPEROXIDE                         | > 79 – 90         |                    |                       |                 | ≥ 10  | OP5            |                          |                            | 3103                   | 13)                          |
| "  | ≤ 80              | ≥ 20               |                       |                 |       | OP7            |                          |                            | 3105                   | 4) 13)                       |
| "  | ≤ 79              |                    |                       |                 | > 14  | OP8            |                          |                            | 3107                   | 13) 23)                      |
| "  | ≤ 72              |                    |                       |                 | ≥ 28  | OP8            |                          |                            | 3109                   | 13)                          |
| tert-BUTYL HYDROPEROXIDE + DI-tert-BUTYLPEROXIDE | < 82 + > 9        |                    |                       |                 | ≥ 7   | OP5            |                          |                            | 3103                   | 13)                          |
| tert-BUTYL MONOPEROXYMALEATE                     | > 52 – 100        |                    |                       |                 |       | OP5            |                          |                            | 3102                   | 3)                           |
| "  | ≤ 52              | ≥ 48               |                       |                 |       | OP6            |                          |                            | 3103                   |                              |
| "  | ≤ 52              |                    |                       | ≥ 48            |       | OP8            |                          |                            | 3108                   |                              |
| "  | ≤ 52 as a paste   |                    |                       |                 |       | OP8            |                          |                            | 3108                   |                              |
| tert-BUTYL PEROXYACETATE                         | > 52 – 77         | ≥ 23               |                       |                 |       | OP5            |                          |                            | 3101                   | 3)                           |
| "  | > 32 – 52         | ≥ 48               |                       |                 |       | OP6            |                          |                            | 3103                   |                              |
| "  | ≤ 32              |                    | ≥ 68                  |                 |       | OP8            |                          |                            | 3109                   |                              |
| tert-BUTYL PEROXYBENZOATE                        | > 77 – 100        |                    |                       |                 |       | OP5            |                          |                            | 3103                   |                              |
| "  | > 52 - 77         | ≥ 23               |                       |                 |       | OP7            |                          |                            | 3105                   |                              |
| "  | ≤ 52              |                    |                       | ≥ 48            |       | OP7            |                          |                            | 3106                   |                              |
| tert-BUTYL PEROXYBUTYL FUMARATE                  | ≤ 52              | ≥ 48               |                       |                 |       | OP7            |                          |                            | 3105                   |                              |

| ORGANIC PEROXIDE   | Concentration (%)                             | Diluent type A (%) | Diluent type B (%) 1) | Inert solid (%) | Water | Packing Method | Control temperature (°C) | Emergency temperature (°C) | Number (Generic entry) | Subsidiary risks and remarks |
|--|---|--------------------|-----------------------|-----------------|-------|----------------|--------------------------|----------------------------|------------------------|------------------------------|
| tert-BUTYL PEROXYCROTONATE   | ≤ 77  | ≥ 23               |                       |                 |       | OP7            |                          |                            | 3105                   |                              |
| tert-BUTYL PEROXYDIETHYLACETATE                                      | ≤ 100   |                    |                       |                 |       | OP5            | +20                      | +25                        | 3113                   |                              |
| tert-BUTYL PEROXY-2-ETHYLHEXANOATE                                   | > 52 – 100                                    |                    |                       |                 |       | OP6            | +20                      | +25                        | 3113                   |                              |
| "  | > 32 – 52                                     |                    | ≥ 48                  |                 |       | OP8            | +30                      | +35                        | 3117                   |                              |
| "  | ≤ 52  |                    |                       | ≥ 48            |       | OP8            | +20                      | +25                        | 3118                   |                              |
| "  | ≤ 32  |                    | ≥ 68                  |                 |       | OP8            | +40                      | +45                        | 3119                   |                              |
| tert-BUTYL PEROXY-2-ETHYLHEXANOATE + 2,2-DI-(tert-BUTYLPEROXY)BUTANE | ≤ 12 + ≤ 14                                   | ≥ 14               |                       | ≥ 60            |       | OP7            |                          |                            | 3106                   |                              |
| "  | ≤ 31 + ≤ 36                                   |                    | ≥ 33                  |                 |       | OP7            | +35                      | +40                        | 3115                   |                              |
| tert-BUTYL PEROXY-2-ETHYLHEXYLCARBONATE                              | ≤ 100   |                    |                       |                 |       | OP7            |                          |                            | 3105                   |                              |
| tert-BUTYL PEROXYISOBUTYRATE   | > 52 – 77                                     |                    | ≥ 23                  |                 |       | OP5            | +15                      | +20                        | 3111                   | 3)                           |
| "  | ≤ 52  |                    | ≥ 48                  |                 |       | OP7            | +15                      | +20                        | 3115                   |                              |
| tert-BUTYLPEROXY ISOPROPYLCARBONATE                                  | ≤ 77  | ≥ 23               |                       |                 |       | OP5            |                          |                            | 3103                   |                              |
| 1-(2-tert-BUTYLPEROXY ISOPROPYL)-3-ISOPROPENYLBENZENE                | ≤ 77  | ≥ 23               |                       |                 |       | OP7            |                          |                            | 3105                   |                              |
| "  | ≤ 42  |                    |                       | ≥ 58            |       | OP8            |                          |                            | 3108                   |                              |
| tert-BUTYL PEROXY-2-METHYLBENZOATE                                   | ≤ 100   |                    |                       |                 |       | OP5            |                          |                            | 3103                   |                              |
| tert-BUTYL PEROXYNEODECANOATE  | > 77 – 100                                    |                    |                       |                 |       | OP7            | -5                       | +5                         | 3115                   |                              |
| "  | ≤ 77  |                    | ≥ 23                  |                 |       | OP7            | 0                        | +10                        | 3115                   |                              |
| "  | ≤ 52 as a stable dispersion in water          |                    |                       |                 |       | OP8            | 0                        | +10                        | 3119                   |                              |
| "  | ≤ 42 as a stable dispersion in water (frozen) |                    |                       |                 |       | OP8            | 0                        | +10                        | 3118                   |                              |
| "  | ≤ 32  | ≥ 68               |                       |                 |       | OP8            | 0                        | +10                        | 3119                   |                              |
| tert-BUTYL PEROXYNEOHEPTANOATE                                       | ≤ 77  | ≥ 23               |                       |                 |       | OP7            | 0                        | +10                        | 3115                   |                              |
| "  | ≤ 42 as a stable dispersion in water          |                    |                       |                 |       | OP8            | 0                        | +10                        | 3117                   |                              |
| tert-BUTYL PEROXYPIVALATE  | > 67 - 77                                     | ≥ 23               |                       |                 |       | OP5            | 0                        | +10                        | 3113                   |                              |
| "  | > 27 – 67                                     |                    | ≥ 33                  |                 |       | OP7            | 0                        | +10                        | 3115                   |                              |
| "  | ≤ 27  |                    | ≥ 73                  |                 |       | OP8            | +30                      | +35                        | 3119                   |                              |
| tert-BUTYLPEROXY STEARYLCARBONATE                                    | ≤ 100   |                    |                       |                 |       | OP7            |                          |                            | 3106                   |                              |
| tert-BUTYL PEROXY-3,5,5-TRIMETHYLHEXANOATE                           | > 32 – 100                                    |                    |                       |                 |       | OP7            |                          |                            | 3105                   |                              |
| "  | ≤ 42  |                    |                       | ≥ 58            |       | OP7            |                          |                            | 3106                   |                              |
| "  | ≤ 32  |                    | ≥ 68                  |                 |       | OP8            |                          |                            | 3109                   |                              |

| ORGANIC PEROXIDE                              | Concentration (%)                    | Diluent type A (%) | Diluent type B (%) 1) | Inert solid (%) | Water | Packing Method | Control temperature (°C) | Emergency temperature (°C) | Number (Generic entry) | Subsidiary risks and remarks |
|---|--------------------------------------|--------------------|-----------------------|-----------------|-------|----------------|--------------------------|----------------------------|------------------------|------------------------------|
| 3-CHLOROPEROXYBENZOIC ACID                    | > 57 – 86                            |                    |                       | ≥ 14            |       | OP1            |                          |                            | 3102                   | 3)                           |
| "   | ≤ 57                                 |                    |                       | ≥ 3             | ≥ 40  | OP7            |                          |                            | 3106                   |                              |
| "   | ≤ 77                                 |                    |                       | ≥ 6             | ≥ 17  | OP7            |                          |                            | 3106                   |                              |
| CUMYL HYDROPEROXIDE                           | > 90 – 98                            | ≤ 10               |                       |                 |       | OP8            |                          |                            | 3107                   | 13)                          |
| "   | ≤ 90                                 | ≥ 10               |                       |                 |       | OP8            |                          |                            | 3109                   | 13) 18)                      |
| CUMYL PEROXYNEODECANOATE                      | ≤ 87                                 | ≥ 13               |                       |                 |       | OP7            | - 10                     | 0                          | 3115                   |                              |
| "   | ≤ 77                                 |                    | ≥ 23                  |                 |       | OP7            | -10                      | 0                          | 3115                   |                              |
| "   | ≤ 52 as a stable dispersion in water |                    |                       |                 |       | OP8            | -10                      | 0                          | 3119                   |                              |
| CUMYL PEROXYNEOHEPTANOATE                     | ≤ 77                                 | ≥ 23               |                       |                 |       | OP7            | -10                      | 0                          | 3115                   |                              |
| CUMYL PEROXYPIVALATE                          | ≤ 77                                 |                    | ≥ 23                  |                 |       | OP7            | -5                       | +5                         | 3115                   |                              |
| CYCLOHEXANONE PEROXIDE(S)                     | ≤ 91                                 |                    |                       |                 | ≥ 9   | OP6            |                          |                            | 3104                   | 13)                          |
| "   | ≤ 72                                 | ≥ 28               |                       |                 |       | OP7            |                          |                            | 3105                   | 5)                           |
| "   | ≤ 72 as a paste                      |                    |                       |                 |       | OP7            |                          |                            | 3106                   | 5) 20)                       |
| "   | ≤ 32                                 |                    |                       | ≥ 68            |       |                |                          |                            | Exempt                 | 29)                          |
| DIACETONE ALCOHOL PEROXIDES                   | ≤ 57                                 |                    | ≥ 26                  |                 | ≥ 8   | OP7            | +40                      | +45                        | 3115                   | 6)                           |
| DIACETYL PEROXIDE                             | ≤ 27                                 |                    | ≥ 73                  |                 |       | OP7            | +20                      | +25                        | 3115                   | 7) 13)                       |
| DI-tert-AMYL PEROXIDE                         | ≤ 100                                |                    |                       |                 |       | OP8            |                          |                            | 3107                   |                              |
| 2,2-DI-(tert-AMYLPEROXY)BUTANE                | ≤ 57                                 | ≥ 43               |                       |                 |       | OP7            |                          |                            | 3105                   |                              |
| 1,1-DI-(tert-AMYLPEROXY)CYCLOHEXANE           | ≤ 82                                 | ≥ 18               |                       |                 |       | OP6            |                          |                            | 3103                   |                              |
| DIBENZOYL PEROXIDE                            | > 51 - 100                           |                    |                       | ≤ 48            |       | OP2            |                          |                            | 3102                   | 3)                           |
| "   | > 77 - 94                            |                    |                       |                 | ≥ 6   | OP4            |                          |                            | 3102                   | 3)                           |
| "   | ≤ 77                                 |                    |                       |                 | ≥ 23  | OP6            |                          |                            | 3104                   |                              |
| "   | ≤ 62                                 |                    |                       | ≥ 28            | ≥ 10  | OP7            |                          |                            | 3106                   |                              |
| "   | > 52 – 62 as a paste                 |                    |                       |                 |       | OP7            |                          |                            | 3106                   | 20)                          |
| "   | > 35 – 52                            |                    |                       | ≥ 48            |       | OP7            |                          |                            | 3106                   |                              |
| "   | > 36 – 42                            | ≥ 18               |                       |                 | ≤ 40  | OP8            |                          |                            | 3107                   |                              |
| "   | ≤ 56.5 as a paste                    |                    |                       |                 | ≥ 15  | OP8            |                          |                            | 3108                   |                              |
| "   | ≤ 52 as a paste                      |                    |                       |                 |       | OP8            |                          |                            | 3108                   | 20)                          |
| "   | ≤ 42 as a stable dispersion in water |                    |                       |                 |       | OP8            |                          |                            | 3109                   |                              |
| "   | ≤ 35                                 |                    |                       | ≥ 65            |       |                |                          |                            | Exempt                 | 29)                          |
| DI-(4-tert-BUTYLCYCLOHEXYL) PEROXYDICARBONATE | ≤ 100                                |                    |                       |                 |       | OP6            | +30                      | +35                        | 3114                   |                              |
| "   | ≤ 42 as a stable dispersion in water |                    |                       |                 |       | OP8            | +30                      | +35                        | 3119                   |                              |

| ORGANIC PEROXIDE   | Concentration (%)                             | Diluent type A (%) | Diluent type B (% 1) | Inert solid (%) | Water | Packing Method | Control temperature (°C) | Emergency temperature (°C) | Number (Generic entry) | Subsidiary risks and remarks |
|--|---|--------------------|----------------------|-----------------|-------|----------------|--------------------------|----------------------------|------------------------|------------------------------|
| DI-tert-BUTYL PEROXIDE   | > 52 – 100                                    |                    |                      |                 |       | OP8            |                          |                            | 3107                   |                              |
| "  | ≤ 52  |                    | ≥ 48                 |                 |       | OP8            |                          |                            | 3109                   | 25)                          |
| DI-tert-BUTYL PEROXYAZELATE  | ≤ 52  | ≥ 48               |                      |                 |       | OP7            |                          |                            | 3105                   |                              |
| 2,2-DI-(tert-BUTYLPEROXY)BUTANE  | ≤ 52  | ≥ 48               |                      |                 |       | OP6            |                          |                            | 3103                   |                              |
| 1,6-Di-(tert-BUTYLPEROXYCARBONYLOXY) HEXANE                                | ≤ 72  | ≥ 28               |                      |                 |       | OP5            |                          |                            | 3103                   |                              |
| 1,1-DI-(tert-BUTYLPEROXY) CYCLOHEXANE                                      | > 80 - 100                                    |                    |                      |                 |       | OP5            |                          |                            | 3101                   | 3)                           |
| "  | ≤ 72  |                    | ≥ 28                 |                 |       | OP5            |                          |                            | 3103                   | 30)                          |
| "  | > 52 - 80                                     | ≥ 20               |                      |                 |       | OP5            |                          |                            | 3103                   |                              |
| "  | > 42 – 52                                     | ≥ 48               |                      |                 |       | OP7            |                          |                            | 3105                   |                              |
| "  | ≤ 42  | ≥ 13               |                      | ≥ 45            |       | OP7            |                          |                            | 3106                   |                              |
| "  | ≤ 42  | ≥ 58               |                      |                 |       | OP8            |                          |                            | 3109                   |                              |
| "  | ≤ 27  | ≥ 25               |                      |                 |       | OP8            |                          |                            | 3107                   | 21)                          |
| "  | ≤ 13  | ≥ 13               | ≥ 74                 |                 |       | OP8            |                          |                            | 3109                   |                              |
| 1,1-DI-(tert-BUTYLPEROXY) CYCLOHEXANE + tert-BUTYL PEROXY-2-ETHYLHEXANOATE | ≤ 43 + ≤ 16                                   | ≥ 41               |                      |                 |       | OP 7           |                          |                            | 3105                   |                              |
| DI-n-BUTYL PEROXYDICARBONATE   | > 27 - 52                                     |                    | ≥ 48                 |                 |       | OP7            | -15                      | -5                         | 3115                   |                              |
| "  | ≤ 27  |                    | ≥ 73                 |                 |       | OP8            | -10                      | 0                          | 3117                   |                              |
| "  | ≤ 42 as a stable dispersion in water (frozen) |                    |                      |                 |       | OP8            | -15                      | -5                         | 3118                   |                              |
| DI-sec-BUTYL PEROXYDICARBONATE   | > 52 - 100                                    |                    |                      |                 |       | OP4            | -20                      | -10                        | 3113                   |                              |
| "  | ≤ 52  |                    | ≥ 48                 |                 |       | OP7            | -15                      | -5                         | 3115                   |                              |
| DI-(2-tert-BUTYLPEROXYISOPROPYL)BENZENE(S)                                 | > 42 - 100                                    |                    |                      | ≤ 57            |       | OP7            |                          |                            | 3106                   |                              |
| "  | ≤ 42  |                    |                      | ≥ 58            |       |                |                          |                            | Exempt                 | 29)                          |
| DI-(tert-BUTYLPEROXY) PHTHALATE  | > 42 - 52                                     | ≥ 48               |                      |                 |       | OP7            |                          |                            | 3105                   |                              |
| "  | ≤ 52 as a paste                               |                    |                      |                 |       | OP7            |                          |                            | 3106                   | 20)                          |
| "  | ≤ 42  | ≥ 58               |                      |                 |       | OP8            |                          |                            | 3107                   |                              |
| 2,2-DI-(tert-BUTYLPEROXY)PROPANE   | ≤ 52  | ≥ 48               |                      |                 |       | OP7            |                          |                            | 3105                   |                              |
| "  | ≤ 42  | ≥ 13               |                      | ≥ 45            |       | OP7            |                          |                            | 3106                   |                              |

| ORGANIC PEROXIDE                                      | Concentration (%)                             | Diluent type A (%) | Diluent type B (%) 1) | Inert solid (%) | Water | Packing Method | Control temperature (°C) | Emergency temperature (°C) | Number (Generic entry) | Subsidiary risks and remarks |
|---|---|--------------------|-----------------------|-----------------|-------|----------------|--------------------------|----------------------------|------------------------|------------------------------|
| 1,1-DI-(tert-BUTYLPEROXY)-3,3,5-TRIMETHYLCYCLOHEXANE  | > 90 - 100                                    |                    |                       |                 |       | OP5            |                          |                            | 3101                   | 3)                           |
| "   | ≤ 90  |                    | ≥ 10                  |                 |       | OP5            |                          |                            | 3103                   | 30)                          |
| "   | > 57 – 90                                     | ≥ 10               |                       |                 |       | OP5            |                          |                            | 3103                   |                              |
| "   | ≤ 77  |                    | ≥ 23                  |                 |       | OP5            |                          |                            | 3103                   |                              |
| "   | ≤ 57  |                    |                       | ≥ 43            |       | OP8            |                          |                            | 3110                   |                              |
| "   | ≤ 57  | ≥ 43               |                       |                 |       | OP8            |                          |                            | 3107                   |                              |
| "   | ≤ 32  | ≥ 26               | ≥ 42                  |                 |       | OP8            |                          |                            | 3107                   |                              |
| DICETYL PEROXYDICARBONATE                             | ≤ 100   |                    |                       |                 |       | OP7            | +30                      | +35                        | 3116                   |                              |
| "   | ≤ 42 as a stable dispersion in water          |                    |                       |                 |       | OP8            | +30                      | +35                        | 3119                   |                              |
| DI-4-CHLOROBENZOYL PEROXIDE                           | ≤ 77  |                    |                       |                 | ≥ 23  | OP5            |                          |                            | 3102                   | 3)                           |
| "   | ≤ 52 as a paste                               |                    |                       |                 |       | OP7            |                          |                            | 3106                   | 20)                          |
| "   | ≤ 32  |                    |                       | ≥ 68            |       |                |                          |                            | Exempt                 | 29)                          |
| DICUMYL PEROXIDE                                      | > 52 - 100                                    |                    |                       |                 |       | OP8            |                          |                            | 3110                   | 12)                          |
| "   | ≤ 52  |                    |                       | ≥ 48            |       |                |                          |                            | Exempt                 | 29)                          |
| DICYCLOHEXYL PEROXYDICARBONATE                        | > 91 - 100                                    |                    |                       |                 |       | OP3            | +10                      | +15                        | 3112                   | 3)                           |
| "   | ≤ 91  |                    |                       |                 | ≥ 9   | OP5            | +10                      | +15                        | 3114                   |                              |
| "   | ≤ 42 as a stable dispersion in water          |                    |                       |                 |       | OP8            | +15                      | +20                        | 3119                   |                              |
| DIDECANOYL PEROXIDE                                   | ≤ 100   |                    |                       |                 |       | OP6            | +30                      | +35                        | 3114                   |                              |
| 2,2-DI-(4,4-DI (tert-BUTYLPEROXY) CYCLOHEXYL) PROPANE | ≤ 42  |                    |                       | ≥ 58            |       | OP7            |                          |                            | 3106                   |                              |
| "   | ≤ 22  |                    | ≥ 78                  |                 |       | OP8            |                          |                            | 3107                   |                              |
| DI-2,4-DICHLOROBENZOYL PEROXIDE                       | ≤ 77  |                    |                       |                 | ≥ 23  | OP5            |                          |                            | 3102                   | 3)                           |
| "   | ≤ 52 as a paste                               |                    |                       |                 |       | OP8            | + 20                     | + 25                       | 3118                   |                              |
| "   | ≤ 52 as a paste with silicon oil              |                    |                       |                 |       | OP7            |                          |                            | 3106                   |                              |
| DI-(2-ETHOXYETHYL) PEROXYDICARBONATE                  | ≤ 52  |                    | ≥ 48                  |                 |       | OP7            | -10                      | 0                          | 3115                   |                              |
| DI-(2-ETHYLHEXYL) PEROXYDICARBONATE                   | > 77 – 100                                    |                    |                       |                 |       | OP5            | -20                      | -10                        | 3113                   |                              |
| "   | ≤ 77  |                    | ≥ 23                  |                 |       | OP7            | -15                      | -5                         | 3115                   |                              |
| "   | ≤ 62 as a stable dispersion in water          |                    |                       |                 |       | OP8            | -15                      | -5                         | 3119                   |                              |
| "   | ≤ 52 as a stable dispersion in water (frozen) |                    |                       |                 |       | OP8            | -15                      | -5                         | 3120                   |                              |
| 2,2-DIHYDROPEROXYPROPANE                              | ≤ 27  |                    |                       | ≥ 73            |       | OP5            |                          |                            | 3102                   | 3)                           |



| ORGANIC PEROXIDE  | Concentration (%)                    | Diluent type A (%) | Diluent type B (%) 1) | Inert solid (%) | Water | Packing Method | Control temperature (°C) | Emergency temperature (°C) | Number (Generic entry) | Subsidiary risks and remarks |
|---|--------------------------------------|--------------------|-----------------------|-----------------|-------|----------------|--------------------------|----------------------------|------------------------|------------------------------|
| DI-(1-HYDROXYCYCLOHEXYL) PEROXIDE   | ≤ 100                                |                    |                       |                 |       | OP7            |                          |                            | 3106                   |                              |
| DIISOBUTYRYL PEROXIDE   | > 32 – 52                            |                    | ≥ 48                  |                 |       | OP5            | -20                      | -10                        | 3111                   | 3)                           |
| "   | ≤ 32                                 |                    | ≥ 68                  |                 |       | OP7            | -20                      | -10                        | 3115                   |                              |
| DIISOPROPYLBENZENE DIHYDROPEROXIDE  | ≤ 82                                 | ≥ 5                |                       |                 | ≥ 5   | OP7            |                          |                            | 3106                   | 24)                          |
| DIISOPROPYL PEROXYDICARBONATE   | > 52-100                             |                    |                       |                 |       | OP2            | -15                      | -5                         | 3112                   | 3)                           |
| "   | ≤ 52                                 |                    | ≥ 48                  |                 |       | OP7            | -20                      | -10                        | 3115                   |                              |
| "   | ≤ 28                                 | ≥ 72               |                       |                 |       | OP7            | -15                      | -5                         | 3115                   |                              |
| DILAUROYL PEROXIDE  | ≤ 100                                |                    |                       |                 |       | OP7            |                          |                            | 3106                   |                              |
| "   | ≤ 42 as a stable dispersion in water |                    |                       |                 |       | OP8            |                          |                            | 3109                   |                              |
| DI-(3-METHOXYBUTYL) PEROXYDICARBONATE   | ≤ 52                                 |                    | ≥ 48                  |                 |       | OP7            | -5                       | +5                         | 3115                   |                              |
| DI-(2-METHYLBENZOYL) PEROXIDE   | ≤ 87                                 |                    |                       |                 | ≥ 13  | OP5            | +30                      | +35                        | 3112                   | 3)                           |
| DI-(3-METHYLBENZOYL) PEROXIDE + BENZOYL (3-METHYLBENZOYL) PEROXIDE + DIBENZOYL PEROXIDE | ≤ 20 + ≤ 18 + ≤ 4                    |                    | ≥ 58                  |                 |       | OP7            | +35                      | +40                        | 3115                   |                              |
| DI-(4-METHYLBENZOYL) PEROXIDE   | ≤ 52 as a paste with silicon oil     |                    |                       |                 |       | OP7            |                          |                            | 3106                   |                              |
| 2,5-DIMETHYL-2,5-DI-(BENZOYLPEROXY)HEXANE   | > 82-100                             |                    |                       |                 |       | OP5            |                          |                            | 3102                   | 3)                           |
| "   | ≤ 82                                 |                    |                       | ≥ 18            |       | OP7            |                          |                            | 3106                   |                              |
| "   | ≤ 82                                 |                    |                       |                 | ≥ 18  | OP5            |                          |                            | 3104                   |                              |
| 2,5-DIMETHYL-2,5-DI-(tert-BUTYLPEROXY)HEXANE  | > 52 – 100                           |                    |                       |                 |       | OP7            |                          |                            | 3105                   |                              |
| "   | ≤ 77                                 |                    |                       | ≥ 23            |       | OP8            |                          |                            | 3108                   |                              |
| "   | ≤ 52                                 | ≥ 48               |                       |                 |       | OP8            |                          |                            | 3109                   |                              |
| "   | ≤ 47 as a paste                      |                    |                       |                 |       | OP8            |                          |                            | 3108                   |                              |
| 2,5-DIMETHYL-2,5-DI-(tert-BUTYLPEROXY)HEXYNE-3  | > 86-100                             |                    |                       |                 |       | OP5            |                          |                            | 3101                   | 3)                           |
| "   | >52-86                               | ≥ 14               |                       |                 |       | OP5            |                          |                            | 3103                   | 26)                          |
| "   | ≤ 52                                 |                    |                       | ≥ 48            |       | OP7            |                          |                            | 3106                   |                              |
| 2,5-DIMETHYL-2,5-DI-(2-ETHYLHEXANOYLPEROXY)HEXANE                                       | ≤ 100                                |                    |                       |                 |       | OP5            | +20                      | +25                        | 3113                   |                              |
| 2,5-DIMETHYL-2,5-DIHYDROPEROXYHEXANE  | ≤ 82                                 |                    |                       |                 | ≥ 18  | OP6            |                          |                            | 3104                   |                              |
| 2,5-DIMETHYL-2,5-DI-(3,5,5-TRIMETHYLHEXANOYLPEROXY)HEXANE                               | ≤ 77                                 | ≥ 23               |                       |                 |       | OP7            |                          |                            | 3105                   |                              |
| 1,1-DIMETHYL-3-HYDROXYBUTYL PEROXYNEOHEPTANOATE   | ≤ 52                                 | ≥ 48               |                       |                 |       | OP8            | 0                        | +10                        | 3117                   |                              |

| ORGANIC PEROXIDE  | Concentration (%)                    | Diluent type A (%) | Diluent type B (%) 1) | Inert solid (%) | Water | Packing Method | Control temperature (°C) | Emergency temperature (°C) | Number (Generic entry) | Subsidiary risks and remarks |
|---|--------------------------------------|--------------------|-----------------------|-----------------|-------|----------------|--------------------------|----------------------------|------------------------|------------------------------|
| DIMYRISTYL PEROXYDICARBONATE  | ≤ 100                                |                    |                       |                 |       | OP7            | +20                      | +25                        | 3116                   |                              |
| "   | ≤ 42 as a stable dispersion in water |                    |                       |                 |       | OP8            | +20                      | +25                        | 3119                   |                              |
| DI-(2-NEODECANOYLPEROXYISOPROPYL) BENZENE   | ≤ 52                                 | ≥ 48               |                       |                 |       | OP7            | -10                      | 0                          | 3115                   |                              |
| DI-n-NONANOYL PEROXIDE  | ≤ 100                                |                    |                       |                 |       | OP7            | 0                        | +10                        | 3116                   |                              |
| DI-n-OCTANOYL PEROXIDE  | ≤ 100                                |                    |                       |                 |       | OP5            | +10                      | +15                        | 3114                   |                              |
| DI-(2-PHENOXYETHYL) PEROXYDICARBONATE   | >85 – 100                            |                    |                       |                 |       | OP5            |                          |                            | 3102                   | 3)                           |
| "   | ≤ 85                                 |                    |                       |                 | ≥ 15  | OP7            |                          |                            | 3106                   |                              |
| DIPROPIONYL PEROXIDE  | ≤ 27                                 |                    | ≥ 73                  |                 |       | OP8            | +15                      | +20                        | 3117                   |                              |
| DI-n-PROPYL PEROXYDICARBONATE   | ≤ 100                                |                    |                       |                 |       | OP3            | -25                      | -15                        | 3113                   |                              |
| "   | ≤ 77                                 |                    | ≥ 23                  |                 |       | OP5            | -20                      | -10                        | 3113                   |                              |
| DISUCCINIC ACID PEROXIDE  | > 72 – 100                           |                    |                       |                 |       | OP4            |                          |                            | 3102                   | 3) 17)                       |
| "   | ≤ 72                                 |                    |                       |                 | ≥ 28  | OP7            | +10                      | +15                        | 3116                   |                              |
| DI-(3,5,5-TRIMETHYLHEXANOYL) PEROXIDE   | > 38-82                              | ≥ 18               |                       |                 |       | OP7            | 0                        | +10                        | 3115                   |                              |
| "   | ≤ 52 as a stable dispersion in water |                    |                       |                 |       | OP8            | +10                      | +15                        | 3119                   |                              |
| "   | ≤ 38                                 | ≥ 62               |                       |                 |       | OP8            | +20                      | +25                        | 3119                   |                              |
| ETHYL 3,3-DI-(tert-AMYLPEROXY)BUTYRATE  | ≤ 67                                 | ≥ 33               |                       |                 |       | OP7            |                          |                            | 3105                   |                              |
| ETHYL 3,3-DI-(tert-BUTYLPEROXY)BUTYRATE   | > 77 - 100                           |                    |                       |                 |       | OP5            |                          |                            | 3103                   |                              |
| "   | ≤ 77                                 | ≥ 23               |                       |                 |       | OP7            |                          |                            | 3105                   |                              |
| "   | ≤ 52                                 |                    |                       | ≥ 48            |       | OP7            |                          |                            | 3106                   |                              |
| 1-(2-ETHYLHEXANOYLPEROXY)-1,3-DIMETHYLBUTYL PEROXYPIVALATE  | ≤ 52                                 | ≥ 45               | ≥ 10                  |                 |       | OP7            | -20                      | -10                        | 3115                   |                              |
| tert-HEXYL PEROXYNEODECANOATE   | ≤ 71                                 | ≥ 29               |                       |                 |       | OP7            | 0                        | +10                        | 3115                   |                              |
| tert-HEXYL PEROXYPIVALATE   | ≤ 72                                 |                    | ≥ 28                  |                 |       | OP7            | +10                      | +15                        | 3115                   |                              |
| 3-HYDROXY-1,1-DIMETHYLBUTYL PEROXYNEODECANOATE  | ≤ 77                                 | ≥ 23               |                       |                 |       | OP 7           | - 5                      | + 5                        | 3115                   |                              |
| "   | ≤ 52                                 | ≥ 48               |                       |                 |       | OP 8           | - 5                      | + 5                        | 3117                   |                              |
| "   | ≤ 52 as a stable dispersion in water |                    |                       |                 |       | OP 8           | - 5                      | + 5                        | 3119                   |                              |
| ISOPROPYL sec-BUTYL PEROXYDICARBONATE +DI-sec-BUTYL PEROXYDICARBONATE +DI-ISOPROPYL PEROXYDICARBONATE | ≤ 32 + ≤ 15 – 18<br>≤ 12 – 15        | ≥ 38               |                       |                 |       | OP7            | -20                      | -10                        | 3115                   |                              |
| "   | ≤ 52 + ≤ 28 + ≤ 22                   |                    |                       |                 |       | OP5            | -20                      | -10                        | 3111                   | 3)                           |
| ISOPROPYLCUMYL HYDROPEROXIDE  | ≤ 72                                 | ≥ 28               |                       |                 |       | OP8            |                          |                            | 3109                   | 13)                          |

| ORGANIC PEROXIDE   | Concentration (%)                    | Diluent type A (%) | Diluent type B (%) 1) | Inert solid (%) | Water | Packing Method | Control temperature (°C) | Emergency temperature (°C) | Number (Generic entry) | Subsidiary risks and remarks |
|--|--------------------------------------|--------------------|-----------------------|-----------------|-------|----------------|--------------------------|----------------------------|------------------------|------------------------------|
| p-MENTHYL HYDROPEROXIDE                                  | > 72 - 100                           |                    |                       |                 |       | OP7            |                          |                            | 3105                   | 13)                          |
| "  | ≤ 72                                 | ≥ 28               |                       |                 |       | OP8            |                          |                            | 3109                   | 27)                          |
| METHYLCYCLOHEXANONE PEROXIDE(S)                          | ≤ 67                                 |                    | ≥ 33                  |                 |       | OP7            | +35                      | +40                        | 3115                   |                              |
| METHYL ETHYL KETONE PEROXIDE(S)                          | see remark 8)                        | ≥ 48               |                       |                 |       | OP5            |                          |                            | 3101                   | 3) 8) 13)                    |
| "  | see remark 9)                        | ≥ 55               |                       |                 |       | OP7            |                          |                            | 3105                   | 9)                           |
| "  | see remark 10)                       | ≥ 60               |                       |                 |       | OP8            |                          |                            | 3107                   | 10)                          |
| METHYL ISOBUTYL KETONE PEROXIDE(S)                       | ≤ 62                                 | ≥ 19               |                       |                 |       | OP7            |                          |                            | 3105                   | 22)                          |
| METHYL ISOPROPYL KETONE PEROXIDE(S)                      | See remark 31)                       | ≥ 70               |                       |                 |       | OP8            |                          |                            | 3109                   | 31)                          |
| ORGANIC PEROXIDE, LIQUID, SAMPLE                         |                                      |                    |                       |                 |       | OP2            |                          |                            | 3103                   | 11)                          |
| ORGANIC PEROXIDE, LIQUID, SAMPLE, TEMPERATURE CONTROLLED |                                      |                    |                       |                 |       | OP2            |                          |                            | 3113                   | 11)                          |
| ORGANIC PEROXIDE, SOLID, SAMPLE                          |                                      |                    |                       |                 |       | OP2            |                          |                            | 3104                   | 11)                          |
| ORGANIC PEROXIDE, SOLID, SAMPLE, TEMPERATURE CONTROLLED  |                                      |                    |                       |                 |       | OP2            |                          |                            | 3114                   | 11)                          |
| 3,3,5,7,7-PENTAMETHYL-1,2,4-TRIOXEPANE                   | ≤ 100                                |                    |                       |                 |       | OP8            |                          |                            | 3107                   |                              |
| PEROXYACETIC ACID, TYPE D, stabilized                    | ≤ 43                                 |                    |                       |                 |       | OP7            |                          |                            | 3105                   | 13) 14) 19)                  |
| PEROXYACETIC ACID, TYPE E, stabilized                    | ≤ 43                                 |                    |                       |                 |       | OP8            |                          |                            | 3107                   | 13) 15) 19)                  |
| PEROXYACETIC ACID, TYPE F, stabilized                    | ≤ 43                                 |                    |                       |                 |       | OP8            |                          |                            | 3109                   | 13) 16) 19)                  |
| PEROXYLAURIC ACID  | ≤ 100                                |                    |                       |                 |       | OP8            | +35                      | +40                        | 3118                   |                              |
| PINANYL HYDROPEROXIDE                                    | > 56 – 100                           |                    |                       |                 |       | OP7            |                          |                            | 3105                   | 13)                          |
| "  | ≤ 56                                 | ≥ 44               |                       |                 |       | OP8            |                          |                            | 3109                   |                              |
| POLYETHER POLY-tert-BUTYLPEROXY-CARBONATE                | ≤ 52                                 |                    | ≥ 48                  |                 |       | OP8            |                          |                            | 3107                   |                              |
| 1,1,3,3-TETRAMETHYLBUTYL HYDROPEROXIDE                   | ≤ 100                                |                    |                       |                 |       | OP7            |                          |                            | 3105                   |                              |
| 1,1,3,3-TETRAMETHYLBUTYL PEROXY-2-ETHYLHEXANOATE         | ≤ 100                                |                    |                       |                 |       | OP7            | +15                      | +20                        | 3115                   |                              |
| 1,1,3,3- TETRAMETHYLBUTYL PEROXYNEODECANOATE             | ≤ 72                                 |                    | ≥ 28                  |                 |       | OP7            | -5                       | +5                         | 3115                   |                              |
| "  | ≤ 52 as a stable dispersion in water |                    |                       |                 |       | OP8            | -5                       | +5                         | 3119                   |                              |
| 1,1,3,3-TETRAMETHYLBUTYL PEROXYPIVALATE                  | ≤ 77                                 | ≥ 23               |                       |                 |       | OP7            | 0                        | +10                        | 3115                   |                              |
| 3,6,9-TRIETHYL-3,6,9-TRIMETHYL-1,4,7 TRIPEROXONANE       | ≤ 42                                 | ≥ 58               |                       |                 |       | OP7            |                          |                            | 3105                   | 28)                          |

**Remarks (refer to the last column of the Table in 2.2.52.4):**

- 1) Diluent type B may always be replaced by diluent type A. The boiling point of diluent type B shall be at least 60°C higher than the SADT of the organic peroxide.
- 2) Available oxygen  $\leq 4.7\%$ .
- 3) "EXPLOSIVE" subsidiary risk label required (Model No.1, see 5.2.2.2.2).
- 4) Diluent may be replaced by di-tert-butyl peroxide.
- 5) Available oxygen  $\leq 9\%$ .
- 6) With  $\leq 9\%$  hydrogen peroxide; available oxygen  $\leq 10\%$ .
- 7) Only non-metallic packagings allowed.
- 8) Available oxygen  $> 10\%$  and  $\leq 10.7\%$ , with or without water.
- 9) Available oxygen  $\leq 10\%$ , with or without water.
- 10) Available oxygen  $\leq 8.2\%$ , with or without water.
- 11) See 2.2.52.1.9.
- 12) Up to 2000 kg per receptacle assigned to ORGANIC PEROXIDE TYPE F on the basis of large scale trials.
- 13) "CORROSIVE" subsidiary risk label required (Model No.8, see 5.2.2.2.2).
- 14) Peroxyacetic acid formulations which fulfil the criteria of the Manual of Tests and Criteria, paragraph 20.4.3 (d).
- 15) Peroxyacetic acid formulations which fulfil the criteria of the Manual of Tests and Criteria, paragraph 20.4.3 (e).
- 16) Peroxyacetic acid formulations which fulfil the criteria of the Manual of Tests and Criteria, paragraph 20.4.3 (f).
- 17) Addition of water to this organic peroxide will decrease its thermal stability.
- 18) No "CORROSIVE" subsidiary risk label (Model No.8, see 5.2.2.2.2) required for concentrations below 80%.
- 19) Mixtures with hydrogen peroxide, water and acid(s).
- 20) With diluent type A, with or without water.
- 21) With  $\geq 25\%$  diluent type A by mass, and in addition ethylbenzene.
- 22) With  $\geq 19\%$  diluent type A by mass, and in addition methyl isobutyl ketone.
- 23) With  $< 6\%$  di-tert-butyl peroxide.
- 24) With  $\leq 8\%$  1-isopropylhydroperoxy-4-isopropylhydroxybenzene.
- 25) Diluent type B with boiling point  $> 110$  °C.
- 26) With  $< 0.5\%$  hydroperoxides content.
- 27) For concentrations more than 56%, "CORROSIVE" subsidiary risk label required (Model No.8, see 5.2.2.2.2).
- 28) Available active oxygen  $\leq 7.6\%$  in diluent type A having a 95% boil-off point in the range of 200 - 260 °C.
- 29) Not subject to the requirements of ADN for Class 5.2.
- 30) Diluent type B with boiling point  $> 130$  °C.
- 31) Active oxygen  $\leq 6.7\%$ .

**2.2.61 Class 6.1 Toxic substances**

**2.2.61.1 Criteria**

2.2.61.1.1 The heading of Class 6.1 covers substances of which it is known by experience or regarding which it is presumed from experiments on animals that in relatively small quantities they are able by a single action or by action of short duration to cause damage to human health, or death, by inhalation, by cutaneous absorption or by ingestion.

2.2.61.1.2 Substances of Class 6.1 are subdivided as follows:

T Toxic substances without subsidiary risk:

- T1 Organic, liquid;
- T2 Organic, solid;
- T3 Organometallic substances;
- T4 Inorganic, liquid;
- T5 Inorganic, solid;
- T6 Liquid, used as pesticides;
- T7 Solid, used as pesticides;
- T8 Samples;
- T9 Other toxic substances;

TF Toxic substances, flammable:

- TF1 Liquid;
- TF2 Liquid, used as pesticides;
- TF3 Solid;

TS Toxic substances, self-heating, solid;

TW Toxic substances, which, in contact with water, emit flammable gases:

- TW1 Liquid;
- TW2 Solid;

TO Toxic substances, oxidizing:

- TO1 Liquid;
- TO2 Solid;

TC Toxic substances, corrosive:

- TC1 Organic, liquid;
- TC2 Organic, solid;
- TC3 Inorganic, liquid;
- TC4 Inorganic, solid;

TFC Toxic substances, flammable, corrosive.

*Definitions*

2.2.61.1.3 For the purposes of ADN:

*LD<sub>50</sub> (median lethal dose) for acute oral toxicity* is the statistically derived single dose of a substance that can be expected to cause death within 14 days in 50 per cent of young adult

albino rats when administered by the oral route. The LD<sub>50</sub> value is expressed in terms of mass of test substance per mass of test animal (mg/kg);

*LD<sub>50</sub> for acute dermal toxicity* is that dose of the substance which, administered by continuous contact for 24 hours with the bare skin of albino rabbits, is most likely to cause death within 14 days in one half of the animals tested. The number of animals tested shall be sufficient to give a statistically significant result and be in conformity with good pharmacological practice. The result is expressed in milligrams per kg body mass;

*LC<sub>50</sub> for acute toxicity on inhalation* is that concentration of vapour, mist or dust which, administered by continuous inhalation to both male and female young adult albino rats for one hour, is most likely to cause death within 14 days in one half of the animals tested. A solid substance shall be tested if at least 10% (by mass) of its total mass is likely to be dust in a respirable range, e.g. the aerodynamic diameter of that particle-fraction is 10 µm or less. A liquid substance shall be tested if a mist is likely to be generated in a leakage of the transport containment. Both for solid and liquid substances more than 90% (by mass) of a specimen prepared for inhalation toxicity shall be in the respirable range as defined above. The result is expressed in milligrams per litre of air for dusts and mists or in millilitres per cubic metre of air (parts per million) for vapours.

#### *Classification and assignment of packing groups*

2.2.61.1.4 Substances of Class 6.1 shall be classified in three packing groups according to the degree of danger they present for carriage, as follows:

Packing group I: highly toxic substances  
 Packing group II: toxic substances  
 Packing group III: slightly toxic substances.

2.2.61.1.5 Substances, mixtures, solutions and articles classified in Class 6.1 are listed in Table A of Chapter 3.2. The assignment of substances, mixtures and solutions not mentioned by name in Table A of Chapter 3.2 to the relevant entry of sub-section 2.2.61.3 and to the relevant packing group in accordance with the provisions of Chapter 2.1, shall be made according to the following criteria in 2.2.61.1.6 to 2.2.61.1.11.

2.2.61.1.6 To assess the degree of toxicity, account shall be taken of human experience of instances of accidental poisoning, as well as special properties possessed by any individual substances: liquid state, high volatility, any special likelihood of cutaneous absorption, and special biological effects.

2.2.61.1.7 In the absence of observations on humans, the degree of toxicity shall be assessed using the available data from animal experiments in accordance with the table below:

|                | Packing group    | Oral toxicity<br>LD <sub>50</sub><br>(mg/kg) | Dermal toxicity<br>LD <sub>50</sub><br>(mg/kg) | Inhalation toxicity<br>by dusts and mists<br>LC <sub>50</sub> (mg/l) |
|----------------|------------------|--|--|--|
| Highly toxic   | I                | ≤ 5.0  | ≤ 50   | ≤ 0.2  |
| Toxic          | II               | > 5.0 and ≤ 50                               | > 50 and ≤ 200                                 | > 0.2 and ≤ 2.0  |
| Slightly toxic | III <sup>a</sup> | > 50 and ≤ 300                               | > 200 and ≤ 1 000                              | > 2.0 and ≤ 4.0  |

<sup>a</sup> *Tear gas substances shall be included in packing group II even if data concerning their toxicity correspond to packing group III criteria.*

- 2.2.61.1.7.1 Where a substance exhibits different degrees of toxicity for two or more kinds of exposure, it shall be classified under the highest such degree of toxicity.
- 2.2.61.1.7.2 Substances meeting the criteria of Class 8 and with an inhalation toxicity of dusts and mists ( $LC_{50}$ ) leading to packing group I shall only be accepted for an allocation to Class 6.1 if the toxicity through oral ingestion or dermal contact is at least in the range of packing groups I or II. Otherwise an assignment to Class 8 shall be made if appropriate (see footnote <sup>6</sup> in 2.2.8.1.4).
- 2.2.61.1.7.3 The criteria for inhalation toxicity of dusts and mists are based on  $LC_{50}$  data relating to 1-hour exposure, and where such information is available it shall be used. However, where only  $LC_{50}$  data relating to 4-hour exposure are available, such figures can be multiplied by four and the product substituted in the above criteria, i.e.  $LC_{50}$  value multiplied by four (4 hour) is considered the equivalent of  $LC_{50}$  (1 hour).

*Inhalation toxicity of vapours*

- 2.2.61.1.8 Liquids giving off toxic vapours shall be classified into the following groups where "V" is the saturated vapour concentration (in  $ml/m^3$  of air) (volatility) at 20 °C and standard atmospheric pressure:

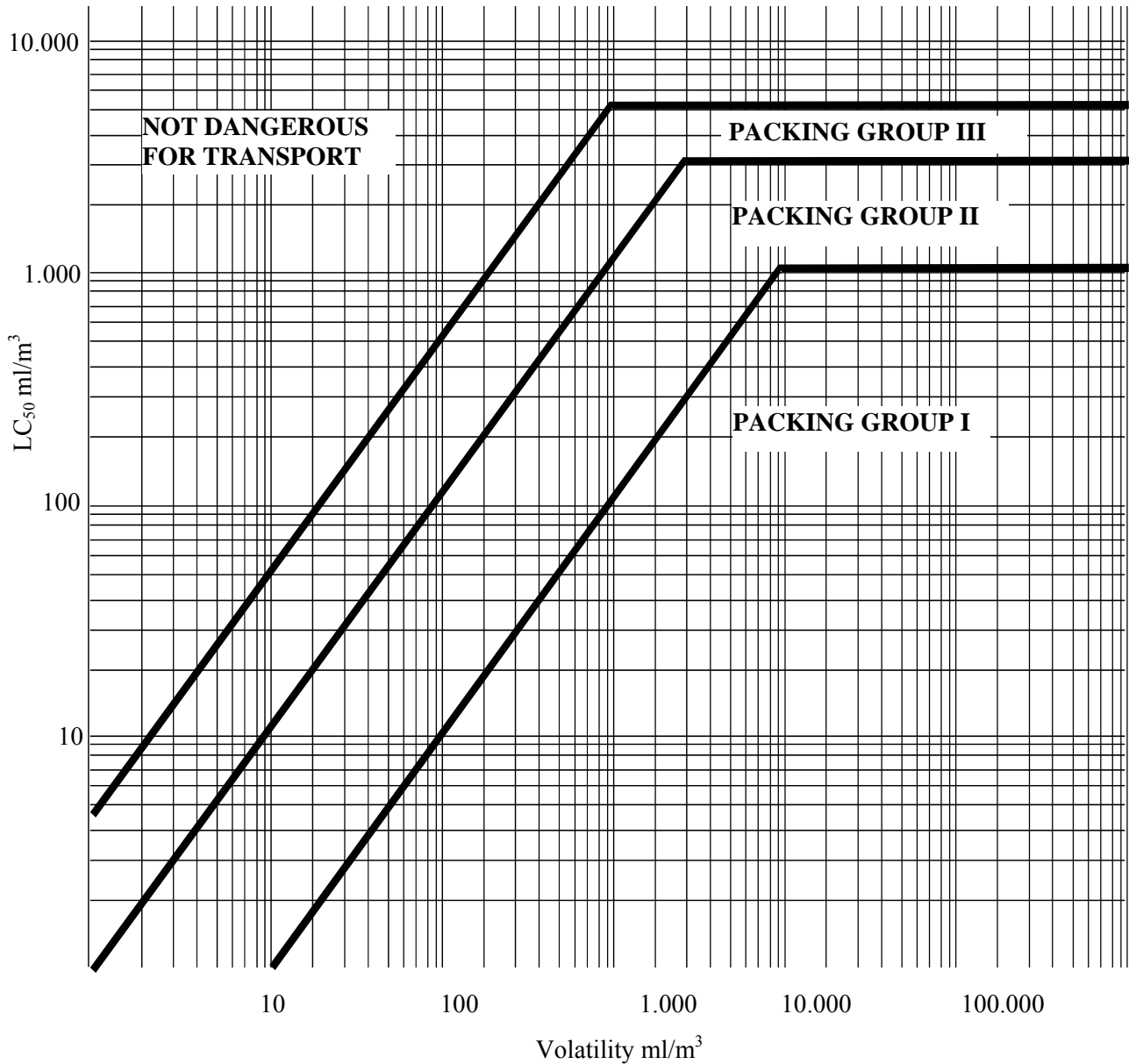
|                | Packing group    |   |
|----------------|------------------|---|
| Highly toxic   | I                | Where $V \geq 10 LC_{50}$ and $LC_{50} \leq 1\ 000\ ml/m^3$   |
| Toxic          | II               | Where $V \geq LC_{50}$ and $LC_{50} \leq 3\ 000\ ml/m^3$ and the criteria for packing group I are not met             |
| Slightly toxic | III <sup>a</sup> | Where $V \geq 1/5 LC_{50}$ and $LC_{50} \leq 5\ 000\ ml/m^3$ and the criteria for packing groups I and II are not met |

<sup>a</sup> *Tear gas substances shall be included in packing group II even if data concerning their toxicity correspond to packing group III criteria.*

These criteria for inhalation toxicity of vapours are based on  $LC_{50}$  data relating to 1-hour exposure, and where such information is available, it shall be used.

However, where only LC<sub>50</sub> data relating to 4-hour exposure to the vapours are available, such figures can be multiplied by two and the product substituted in the above criteria, i.e. LC<sub>50</sub> (4 hour) × 2 is considered the equivalent of LC<sub>50</sub> (1 hour).

**Group borderlines inhalation toxicity of vapours**



In this figure, the criteria are expressed in graphical form, as an aid to easy classification. However, due to approximations inherent in the use of graphs, substances falling on or near group borderlines shall be checked using numerical criteria.



*Mixtures of liquids*

2.2.61.1.9 Mixtures of liquids which are toxic on inhalation shall be assigned to packing groups according to the following criteria:

2.2.61.1.9.1 If  $LC_{50}$  is known for each of the toxic substances constituting the mixture, the packing group may be determined as follows:

(a) calculation of the  $LC_{50}$  of the mixture:

$$LC_{50} \text{ (mixture)} = \frac{1}{\sum_{i=1}^n \frac{f_i}{LC_{50i}}}$$

where  $f_i$  = molar fraction of constituent  $i$  of the mixture;

$LC_{50i}$  = average lethal concentration of constituent  $i$  in  $ml/m^3$ .

(b) calculation of volatility of each mixture constituent:

$$V_i = P_i \times \frac{10^6}{101.3} \text{ (ml/m}^3\text{)}$$

where  $P_i$  = partial pressure of constituent  $i$  in kPa at 20 °C and at standard atmospheric pressure.

(c) calculation of the ratio of volatility to  $LC_{50}$ :

$$R = \sum_{i=1}^n \frac{V_i}{LC_{50i}}$$

(d) the values calculated for  $LC_{50}$  (mixture) and  $R$  are then used to determine the packing group of the mixture:

Packing group I  $R \geq 10$  and  $LC_{50}$  (mixture)  $\leq 1\,000$   $ml/m^3$ ;

Packing group II  $R \geq 1$  and  $LC_{50}$  (mixture)  $\leq 3\,000$   $ml/m^3$ , if the mixture does not meet the criteria for packing group I;

Packing group III  $R \geq 1/5$  and  $LC_{50}$  (mixture)  $\leq 5\,000$   $ml/m^3$ , if the mixture does not meet the criteria of packing groups I or II.

2.2.61.1.9.2 In the absence of  $LC_{50}$  data on the toxic constituent substances, the mixture may be assigned to a group based on the following simplified threshold toxicity tests. When these threshold tests are used, the most restrictive group shall be determined and used for carrying the mixture.

- 2.2.61.1.9.3 A mixture is assigned to packing group I only if it meets both of the following criteria:
- A sample of the liquid mixture is vaporized and diluted with air to create a test atmosphere of 1000 ml/m<sup>3</sup> vaporized mixture in air. Ten albino rats (5 male and 5 female) are exposed to the test atmosphere for 1 hour and observed for 14 days. If five or more of the animals die within the 14-day observation period, the mixture is presumed to have an LC<sub>50</sub> equal to or less than 1000 ml/m<sup>3</sup>;
  - A sample of vapour in equilibrium with the liquid mixture is diluted with 9 equal volumes of air to form a test atmosphere. Ten albino rats (5 male and 5 female) are exposed to the test atmosphere for 1 hour and observed for 14 days. If five or more of the animals die within the 14-day observation period, the mixture is presumed to have a volatility equal to or greater than 10 times the mixture LC<sub>50</sub>.
- 2.2.61.1.9.4 A mixture is assigned to packing group II only if it meets both of the following criteria, and does not meet the criteria for packing group I:
- A sample of the liquid mixture is vaporized and diluted with air to create a test atmosphere of 3000 ml/m<sup>3</sup> vaporized mixture in air. Ten albino rats (5 male and 5 female) are exposed to the test atmosphere for 1 hour and observed for 14 days. If five or more of the animals die within the 14-day observation period, the mixture is presumed to have an LC<sub>50</sub> equal to or less than 3000 ml/m<sup>3</sup>;
  - A sample of the vapour in equilibrium with the liquid mixture is used to form a test atmosphere. Ten albino rats (5 male and 5 female) are exposed to the test atmosphere for 1 hour and observed for 14 days. If five or more of the animals die within the 14-day observation period, the mixture is presumed to have a volatility equal to or greater than the mixture LC<sub>50</sub>.
- 2.2.61.1.9.5 A mixture is assigned to packing group III only if it meets both of the following criteria, and does not meet the criteria for packing groups I or II:
- A sample of the liquid mixture is vaporized and diluted with air to create a test atmosphere of 5000 ml/m<sup>3</sup> vaporized mixture in air. Ten albino rats (5 male and 5 female) are exposed to the test atmosphere for 1 hour and observed for 14 days. If five or more of the animals die within the 14-day observation period, the mixture is presumed to have an LC<sub>50</sub> equal to or less than 5000 ml/m<sup>3</sup>;
  - The vapour concentration (volatility) of the liquid mixture is measured and if the vapour concentration is equal to or greater than 1000 ml/m<sup>3</sup>, the mixture is presumed to have a volatility equal to or greater than 1/5 the mixture LC<sub>50</sub>.

*Methods for determining oral and dermal toxicity of mixtures*

- 2.2.61.1.10 When classifying and assigning the appropriate packing group to mixtures in Class 6.1 in accordance with the oral and dermal toxicity criteria (see 2.2.61.1.3), it is necessary to determine the acute LD<sub>50</sub> of the mixture.
- 2.2.61.1.10.1 If a mixture contains only one active substance, and the LD<sub>50</sub> of that constituent is known, in the absence of reliable acute oral and dermal toxicity data on the actual mixture to be carried, the oral or dermal LD<sub>50</sub> may be obtained by the following method:

$$\text{LD}_{50} \text{ value of preparation} = \frac{\text{LD}_{50} \text{ value of active substance} \times 100}{\text{percentage of active substance by mass}}$$

2.2.61.1.10.2 If a mixture contains more than one active constituent, there are three possible approaches that may be used to determine the oral or dermal LD<sub>50</sub> of the mixture. The preferred method is to obtain reliable acute oral and dermal toxicity data on the actual mixture to be carried. If reliable, accurate data are not available, then either of the following methods may be performed:

- (a) Classify the formulation according to the most hazardous constituent of the mixture as if that constituent were present in the same concentration as the total concentration of all active constituents; or
- (b) Apply the formula:

$$\frac{C_A}{T_A} + \frac{C_B}{T_B} + \dots + \frac{C_Z}{T_Z} = \frac{100}{T_M}$$

where:

C = the percentage concentration of constituent A, B, ... Z in the mixture;

T = the oral LD<sub>50</sub> values of constituent A, B, ... Z;

T<sub>M</sub> = the oral LD<sub>50</sub> value of the mixture.

**NOTE:** This formula can also be used for dermal toxicities provided that this information is available on the same species for all constituents. The use of this formula does not take into account any potentiation or protective phenomena.

#### *Classification of pesticides*

2.2.61.1.11 All active pesticide substances and their preparations for which the LC<sub>50</sub> and/or LD<sub>50</sub> values are known and which are classified in Class 6.1 shall be classified under appropriate packing groups in accordance with the criteria given in 2.2.61.1.6 to 2.2.61.1.9. Substances and preparations which are characterized by subsidiary risks shall be classified according to the precedence of hazard Table in 2.1.3.10 with the assignment of appropriate packing groups.

2.2.61.1.11.1 If the oral or dermal LD<sub>50</sub> value for a pesticide preparation is not known, but the LD<sub>50</sub> value of its active substance(s) is known, the LD<sub>50</sub> value for the preparation may be obtained by applying the procedures in 2.2.61.1.10.

**NOTE:** LD<sub>50</sub> toxicity data for a number of common pesticides may be obtained from the most current edition of the document "The WHO Recommended Classification of Pesticides by Hazard and Guidelines to Classification" available from the International Programme on Chemical Safety, World Health Organisation (WHO), 1211 Geneva 27, Switzerland. While that document may be used as a source of LD<sub>50</sub> data for pesticides, its classification system shall not be used for purposes of transport classification of, or assignment of packing groups to, pesticides, which shall be in accordance with the requirements of ADN.

2.2.61.1.11.2 The proper shipping name used in the carriage of the pesticide shall be selected on the basis of the active ingredient, of the physical state of the pesticide and any subsidiary risks it may exhibit (see 3.1.2).

2.2.61.1.12 If substances of Class 6.1, as a result of admixtures, come into categories of risk different from those to which the substances mentioned by name in Table A of Chapter 3.2 belong, these mixtures or solutions shall be assigned to the entries to which they belong on the basis of their actual degree of danger.

*NOTE: For the classification of solutions and mixtures (such as preparations and wastes), see also 2.1.3.*

2.2.61.1.13 On the basis of the criteria of 2.2.61.1.6 to 2.2.61.1.11, it may also be determined whether the nature of a solution or mixture mentioned by name or containing a substance mentioned by name is such that the solution or mixture is not subject to the requirements for this Class.

2.2.61.1.14 Substances, solutions and mixtures, with the exception of substances and preparations used as pesticides, which do not meet the criteria of Directives 67/548/EEC<sup>3</sup> or 1999/45/EC<sup>4</sup> as amended and which are not therefore classified as highly toxic, toxic or harmful according to these directives, as amended, may be considered as substances not belonging to Class 6.1.

### **2.2.61.2 Substances not accepted for carriage**

2.2.61.2.1 Chemically unstable substances of Class 6.1 shall not be accepted for carriage unless the necessary steps have been taken to prevent their dangerous decomposition or polymerization during carriage. To this end, it shall in particular be ensured that receptacles and tanks do not contain any substance(s) likely to cause such a reaction.

2.2.61.2.2 The following substances and mixtures shall not be accepted for carriage:

- Hydrogen cyanide, anhydrous or in solution, which do not meet the descriptions of UN Nos. 1051, 1613, 1614 and 3294;
- Metal carbonyls, having a flash-point below 23 °C, other than UN Nos. 1259 NICKEL CARBONYL and 1994 IRON PENTACARBONYL;
- 2,3,7,8-TETRACHLORODIBENZO-p-DIOXINE (TCDD) in concentrations considered highly toxic in accordance with the criteria in 2.2.61.1.7;
- UN No. 2249 DICHLORODIMETHYL ETHER, SYMMETRICAL;
- Preparations of phosphides without additives inhibiting the emission of toxic flammable gases.

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<sup>3</sup> Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances (Official Journal of the European Communities No. L 196 of 16.08.1967, page 1).

<sup>4</sup> Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 on the approximation of laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations (Official Journal of the European Communities No. L 200 of 30 July 1999, pages 1 to 68).

2.2.61.3 *List of collective entries***Toxic substances without subsidiary risk(s)**

|                                      |                             |           |   |
|--------------------------------------|-----------------------------|-----------|---|
| <b>Organic</b>                       | <b>liquid<sup>a</sup></b>   | <b>T1</b> | 1583 CHLOROPICRIN MIXTURE, N.O.S.<br>1602 DYE, LIQUID, TOXIC, N.O.S., or<br>1602 DYE INTERMEDIATE, LIQUID, TOXIC, N.O.S.<br>1693 TEAR GAS SUBSTANCE, LIQUID, N.O.S.<br>1851 MEDICINE, LIQUID, TOXIC, N.O.S.<br>2206 ISOCYANATES, TOXIC, N.O.S. or<br>2206 ISOCYANATE SOLUTION, TOXIC, N.O.S.<br>3140 ALKALOIDS, LIQUID, N.O.S. or<br>3140 ALKALOID SALTS, LIQUID, N.O.S.<br>3142 DISINFECTANT, LIQUID, TOXIC, N.O.S.<br>3144 NICOTINE COMPOUND, LIQUID, N.O.S. or<br>3144 NICOTINE PREPARATION, LIQUID, N.O.S.<br>3172 TOXINS, EXTRACTED FROM LIVING SOURCES, LIQUID, N.O.S.<br>3276 NITRILES, TOXIC, LIQUID, N.O.S.<br>3278 ORGANOPHOSPHORUS COMPOUND, TOXIC, LIQUID, N.O.S.<br>3381 TOXIC BY INHALATION LIQUID, N.O.S. with an inhalation toxicity lower than or equal to 200 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 500 LC <sub>50</sub><br>3382 TOXIC BY INHALATION LIQUID, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 10 LC <sub>50</sub><br>2810 TOXIC LIQUID, ORGANIC, N.O.S. |
|                                      | <b>solid<sup>a, b</sup></b> | <b>T2</b> | 1544 ALKALOIDS, SOLID, N.O.S. or<br>1544 ALKALOID SALTS, SOLID, N.O.S.<br>1601 DISINFECTANT, SOLID, TOXIC, N.O.S.<br>1655 NICOTINE COMPOUND, SOLID, N.O.S., or<br>1655 NICOTINE PREPARATION, SOLID, N.O.S.<br>3448 TEAR GAS SUBSTANCE, SOLID, N.O.S.<br>3143 DYE, SOLID, TOXIC, N.O.S. or<br>3143 DYE INTERMEDIATE, SOLID, TOXIC, N.O.S.<br>3462 TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S.<br>3249 MEDICINE, SOLID, TOXIC, N.O.S.<br>3464 ORGANOPHOSPHORUS COMPOUND, TOXIC, SOLID, N.O.S.<br>3439 NITRILES, TOXIC, SOLID, N.O.S.<br>2811 TOXIC SOLID, ORGANIC, N.O.S.  |
| <b>Organometallic<sup>c, d</sup></b> |                             | <b>T3</b> | 2026 PHENYLMERCURIC COMPOUND, N.O.S.<br>2788 ORGANOTIN COMPOUND, LIQUID, N.O.S.<br>3146 ORGANOTIN COMPOUND, SOLID, N.O.S.<br>3280 ORGANOARSENIC COMPOUND, LIQUID, N.O.S.<br>3465 ORGANOARSENIC COMPOUND, SOLID, N.O.S.<br>3281 METAL CARBONYLS, LIQUID, N.O.S.<br>3466 METAL CARBONYLS, SOLID, N.O.S.<br>3282 ORGANOMETALLIC COMPOUND, TOXIC, LIQUID, N.O.S.<br>3467 ORGANOMETALLIC COMPOUND, TOXIC, SOLID, N.O.S.  |

(cont'd on next page)

<sup>a</sup> Substances and preparations containing alkaloids or nicotine used as pesticides shall be classified under UN No. 2588 PESTICIDES, SOLID, TOXIC, N.O.S., UN No. 2902 PESTICIDES, LIQUID, TOXIC, N.O.S. or UN No. 2903 PESTICIDES, LIQUID, TOXIC, FLAMMABLE, N.O.S.

<sup>b</sup> Active substances and triturations or mixtures of substances intended for laboratories and experiments and for the manufacture of pharmaceutical products with other substances shall be classified according to their toxicity (see 2.2.61.1.7 to 2.2.61.1.11).

<sup>c</sup> Self-heating substances, slightly toxic and spontaneously combustible organometallic compounds, are substances of Class 4.2.

<sup>d</sup> Water-reactive substances, slightly toxic, and water-reactive organometallic compounds, are substances of Class 4.3.

2.2.61.3 *List of collective entries (cont'd)***Toxic substances without subsidiary risk(s) (cont'd)**

|   |                                |   |
|---|--------------------------------|---|
|   | <b>liquid<sup>e</sup> T4</b>   | 1556 ARSENIC COMPOUND, LIQUID, N.O.S., inorganic including: Arsenates, n.o.s., Arsenites, n.o.s.; and Arsenic sulphides, n.o.s.   |
|   |                                | 1935 CYANIDE SOLUTION, N.O.S.   |
| <b>Inorganic</b>  | <b>solids<sup>f,g</sup> T5</b> | 2024 MERCURY COMPOUND, LIQUID, N.O.S.   |
|   |                                | 3141 ANTIMONY COMPOUND, INORGANIC, LIQUID, N.O.S.   |
|   |                                | 3440 SELENIUM COMPOUND, LIQUID, N.O.S.  |
|   |                                | 3381 TOXIC BY INHALATION LIQUID, N.O.S. with an inhalation toxicity lower than or equal to 200 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 500 LC <sub>50</sub> |
|   |                                | 3382 TOXIC BY INHALATION LIQUID, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 10 LC <sub>50</sub> |
|   |                                | 3287 TOXIC LIQUID, INORGANIC, N.O.S.  |
|   |                                | 1549 ANTIMONY COMPOUND, INORGANIC, SOLID, N.O.S   |
|   |                                | 1557 ARSENIC COMPOUND, SOLID, N.O.S., including: Arsenates, n.o.s.; Arsenites, n.o.s.; and Arsenic sulphides, n.o.s.  |
|   |                                | 1564 BARIUM COMPOUND, N.O.S.  |
|   |                                | 1566 BERYLLIUM COMPOUND, N.O.S.   |
|   |                                | 1588 CYANIDES, INORGANIC, SOLID, N.O.S.   |
|   |                                | 1707 THALLIUM COMPOUND, N.O.S.  |
|   |                                | 2025 MERCURY COMPOUND, SOLID, N.O.S.  |
|   |                                | 2291 LEAD COMPOUND, SOLUBLE, N.O.S.   |
|   |                                | 2570 CADMIUM COMPOUND   |
| 2630 SELENATES or<br>2630 SELENITES                         |                                |   |
| 2856 FLUOROSILICATES, N.O.S.                                |                                |   |
| 3283 SELENIUM COMPOUND, SOLID, N.O.S.                       |                                |   |
| 3284 TELLURIUM COMPOUND, N.O.S.                             |                                |   |
| 3285 VANADIUM COMPOUND, N.O.S.                              |                                |   |
| 3288 TOXIC SOLID, INORGANIC, N.O.S.                         |                                |   |
| <b>Pesticides</b>   | <b>liquid<sup>h</sup> T6</b>   | 2992 CARBAMATE PESTICIDE, LIQUID, TOXIC   |
|   |                                | 2994 ARSENICAL PESTICIDE, LIQUID, TOXIC   |
|   |                                | 2996 ORGANOCHLORINE PESTICIDE, LIQUID, TOXIC  |
|   |                                | 2998 TRIAZINE PESTICIDE, LIQUID, TOXIC  |
|   |                                | 3006 THIOCARBAMATE PESTICIDE, LIQUID, TOXIC   |
|   |                                | 3010 COPPER BASED PESTICIDE, LIQUID, TOXIC  |
|   |                                | 3012 MERCURY BASED PESTICIDE, LIQUID, TOXIC   |
|   |                                | 3014 SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, TOXIC   |
|   |                                | 3016 BIPYRIDILIUM PESTICIDE, LIQUID, TOXIC  |
|   |                                | 3018 ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC  |
|   |                                | 3020 ORGANOTIN PESTICIDE, LIQUID, TOXIC   |
| 3026 COUMARIN DERIVATIVE PESTICIDE, LIQUID, TOXIC           |                                |   |
| 3348 PHENOXYACETIC ACID DERIVATIVE PESTICIDE, LIQUID, TOXIC |                                |   |
| 3352 PYRETHROID PESTICIDE, LIQUID, TOXIC                    |                                |   |
| <i>(cont'd on next page)</i>                                |                                |   |

<sup>e</sup> Mercury fulminate, wetted with not less than 20% water, or mixture of alcohol and water by mass is a substance of Class 1, UN No. 0135.

<sup>f</sup> Ferricyanides, ferrocyanides, alkaline thiocyanates and ammonium thiocyanates are not subject to the provisions of ADN.

<sup>g</sup> Lead salts and lead pigments which, when mixed in a ratio of 1:1,000 with 0.07M hydrochloric acid and stirred for one hour at a temperature of 23 °C ± 2 °C, exhibit a solubility of 5% or less, are not subject to the provisions of ADN.

<sup>h</sup> Articles impregnated with this pesticide, such as fibreboard plates, paper strips, cotton-wool balls, sheets of plastics material, in hermetically closed wrappings, are not subject to the provisions of ADN.

**2.2.61.3 List of collective entries (cont'd)****Toxic substances without subsidiary risk(s) (cont'd)**

| <b>Pesticides (cont'd)</b>                |                          |  |
|---|--------------------------|--|
|   |                          | 2902 PESTICIDE, LIQUID, TOXIC, N.O.S.                      |
|   |                          | 2757 CARBAMATE PESTICIDE, SOLID, TOXIC                     |
|   |                          | 2759 ARSENICAL PESTICIDE, SOLID, TOXIC                     |
|   |                          | 2761 ORGANOCHLORINE PESTICIDE, SOLID, TOXIC                |
|   |                          | 2763 TRIAZINE PESTICIDE, SOLID, TOXIC                      |
|   |                          | 2771 THIOCARBAMATE PESTICIDE, SOLID, TOXIC                 |
|   |                          | 2775 COPPER BASED PESTICIDE, SOLID, TOXIC                  |
|   |                          | 2777 MERCURY BASED PESTICIDE, SOLID, TOXIC                 |
|   | <b>Solid<sup>h</sup></b> | 2779 SUBSTITUTED NITROPHENOL PESTICIDE, SOLID, TOXIC       |
|   | <b>T7</b>                | 2781 BIPYRIDILIUM PESTICIDE, SOLID, TOXIC                  |
|   |                          | 2783 ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC              |
|   |                          | 2786 ORGANOTIN PESTICIDE, SOLID, TOXIC                     |
|   |                          | 3027 COUMARIN DERIVATIVE PESTICIDE, SOLID, TOXIC           |
|   |                          | 3048 ALUMINIUM PHOSPHIDE PESTICIDE                         |
|   |                          | 3345 PHENOXYACETIC ACID DERIVATIVE PESTICIDE, SOLID, TOXIC |
|   |                          | 3349 PYRETHROID PESTICIDE, SOLID, TOXIC                    |
|   |                          | 2588 PESTICIDE, SOLID, TOXIC, N.O.S.                       |
| <b>Samples</b>                            |                          |  |
|   | <b>T8</b>                | 3315 CHEMICAL SAMPLE, TOXIC                                |
| <b>Other toxic substances<sup>i</sup></b> |                          |  |
|   | <b>T9</b>                | 3243 SOLIDS CONTAINING TOXIC LIQUID, N.O.S.                |

**Toxic substances with subsidiary risk(s)**

|                  |                             |  |
|------------------|-----------------------------|--|
|                  |                             | 3071 MERCAPTANS, LIQUID, TOXIC, FLAMMABLE, N.O.S. or   |
|                  |                             | 3071 MERCAPTAN MIXTURE, LIQUID, TOXIC, FLAMMABLE, N.O.S.   |
|                  |                             | 3080 ISOCYANATES, TOXIC, FLAMMABLE, N.O.S. or  |
|                  |                             | 3080 ISOCYANATE SOLUTION, TOXIC, FLAMMABLE, N.O.S.   |
|                  | <b>Liquid<sup>j,k</sup></b> | 3275 NITRILES, TOXIC, FLAMMABLE, N.O.S.  |
|                  | <b>TF1</b>                  | 3279 ORGANOPHOSPHORUS COMPOUND, TOXIC, FLAMMABLE, N.O.S.   |
|                  |                             | 3383 TOXIC BY INHALATION LIQUID, FLAMMABLE, N.O.S. with an inhalation toxicity lower than or equal to 200 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 500 LC <sub>50</sub> |
|                  |                             | 3384 TOXIC BY INHALATION LIQUID, FLAMMABLE, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 10 LC <sub>50</sub> |
| <b>Flammable</b> |                             | 2929 TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.  |
| <b>TF</b>        |                             |  |

(cont'd on next page)

<sup>h</sup> Articles impregnated with this pesticide, such as fibreboard plates, paper strips, cotton-wool balls, sheets of plastics material, in hermetically closed wrappings, are not subject to the provisions of ADN.

<sup>i</sup> Mixtures of solids which are not subject to the provisions of ADN and of toxic liquids may be carried under UN No. 3243 without first applying the classification criteria of Class 6.1, provided there is no free liquid visible at the time the substance is loaded or at the time the packaging, container or cargo transport unit is closed. Each packaging shall correspond to a design type that has passed a leakproofness test at the packing group II level. This entry shall not be used for solids containing a packing group I liquid.

<sup>j</sup> Highly toxic or toxic, flammable liquids having a flash-point below 23 °C excluding substances which are highly toxic on inhalation, i.e. UN Nos. 1051, 1092, 1098, 1143, 1163, 1182, 1185, 1238, 1239, 1244, 1251, 1259, 1613, 1614, 1695, 1994, 2334, 2382, 2407, 2438, 2480, 2482, 2484, 2485, 2606, 2929, 3279 and 3294 are substances of Class 3.

<sup>k</sup> Flammable liquids, slightly toxic, with the exception of substances and preparations used as pesticides, having a flash-point between 23 °C and 60 °C inclusive, are substances of Class 3.

**2.2.61.3 List of collective entries (cont'd)****Toxic substances with subsidiary risk(s) (cont'd)**

|   |  |            |   |
|---|--|------------|---|
| <b>Flammable TF</b><br>(cont'd)                     | <b>pesticides, liquid</b><br>(flash-point not less than 23 °C) | <b>TF2</b> | 2991 CARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE  |
|   |  |            | 2993 ARSENICAL PESTICIDE, LIQUID, TOXIC, FLAMMABLE  |
|   |  |            | 2995 ORGANOCHLORINE PESTICIDE, LIQUID, TOXIC, FLAMMABLE   |
|   |  |            | 2997 TRIAZINE PESTICIDE, LIQUID, TOXIC, FLAMMABLE   |
|   |  |            | 3005 THIOCARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE  |
|   |  |            | 3009 COPPER BASED PESTICIDE, LIQUID, TOXIC, FLAMMABLE   |
|   |  |            | 3011 MERCURY BASED PESTICIDE, LIQUID, TOXIC, FLAMMABLE  |
|   |  |            | 3013 SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, TOXIC, FLAMMABLE  |
|   |  |            | 3015 BIPYRIDILIUM PESTICIDE, LIQUID, TOXIC, FLAMMABLE   |
|   |  |            | 3017 ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE   |
|   |  |            | 3019 ORGANOTIN PESTICIDE, LIQUID, TOXIC, FLAMMABLE  |
|   |  |            | 3025 COUMARIN DERIVATIVE PESTICIDE, LIQUID, TOXIC, FLAMMABLE  |
|   |  |            | 3347 PHENOXYACETIC ACID DERIVATIVE PESTICIDE, LIQUID, TOXIC, FLAMMABLE  |
|   |  |            | 3351 PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE   |
|   |  |            | 2903 PESTICIDE, LIQUID, TOXIC, FLAMMABLE, N.O.S.  |
|   | <b>solid</b>   | <b>TF3</b> | 1700 TEAR GAS CANDLES   |
|   |  |            | 2930 TOXIC SOLID, FLAMMABLE, ORGANIC, N.O.S.  |
| <b>Solid, self-heating<sup>c</sup></b><br><b>TS</b> |  |            | 3124 TOXIC SOLID, SELF-HEATING, N.O.S.  |
|   | <b>liquid</b>  | <b>TW1</b> | 3385 TOXIC BY INHALATION LIQUID, WATER-REACTIVE, N.O.S. with an inhalation toxicity lower than or equal to 200 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 500 LC <sub>50</sub> |
|   |  |            | 3386 TOXIC BY INHALATION LIQUID, WATER-REACTIVE, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 10 LC <sub>50</sub> |
|   |  |            | 3123 TOXIC LIQUID, WATER-REACTIVE, N.O.S.   |
| <b>Water-reactive<sup>d</sup></b><br><b>TW</b>      | <b>solid<sup>n</sup></b>                                       | <b>TW2</b> | 3125 TOXIC SOLID, WATER-REACTIVE, N.O.S.  |
|   | <b>liquid</b>  | <b>TO1</b> | 3387 TOXIC BY INHALATION LIQUID, OXIDIZING, N.O.S. with an inhalation toxicity lower than or equal to 200 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 500 LC <sub>50</sub>      |
|   |  |            | 3388 TOXIC BY INHALATION LIQUID, OXIDIZING, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 10 LC <sub>50</sub>      |
|   |  |            | 3122 TOXIC LIQUID, OXIDIZING, N.O.S.  |
| <b>Oxidizing<sup>l</sup></b><br><b>TO</b>           | <b>solid</b>   | <b>TO2</b> | 3086 TOXIC SOLID, OXIDIZING, N.O.S.   |
|   | <b>liquid</b>  | <b>TC1</b> | 3277 CHLOROFORMATES, TOXIC, CORROSIVE, N.O.S.   |
|   |  |            | 3361 CHLOROSILANES, TOXIC, CORROSIVE, N.O.S.  |
|   |  |            | 3389 TOXIC BY INHALATION LIQUID, CORROSIVE, N.O.S. with an inhalation toxicity lower than or equal to 200 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 500 LC <sub>50</sub>      |
|   |  |            | 3390 TOXIC BY INHALATION LIQUID, CORROSIVE, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 10 LC <sub>50</sub>      |
|   |  |            | 2927 TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.   |
| <b>Corrosive<sup>m</sup></b><br><b>TC</b>           | <b>solid</b>   | <b>TC2</b> | 2928 TOXIC SOLID, CORROSIVE, ORGANIC, N.O.S.  |

(cont'd on next page)

<sup>c</sup> Self-heating substances, slightly toxic and spontaneously combustible organometallic compounds, are substances of Class 4.2.

<sup>d</sup> Water-reactive substances, slightly toxic, and water-reactive organometallic compounds, are substances of Class 4.3.

<sup>l</sup> Oxidizing substances, slightly toxic, are substances of Class 5.1.

<sup>m</sup> Substances slightly toxic and slightly corrosive, are substances of Class 8.

<sup>n</sup> Metal phosphides assigned to UN Nos. 1360, 1397, 1432, 1714, 2011 and 2013 are substances of Class 4.3.



**2.2.61.3 List of collective entries (cont'd)****Toxic substances with subsidiary risk(s) (cont'd)**

|  |                                   |               |  |   |
|--|-----------------------------------|---------------|--|---|
| <b>Corrosive<sup>m</sup> TC</b><br><i>(cont'd)</i> | <b>organic</b><br><i>(cont'd)</i> | <b>solid</b>  | <b>TC2</b>                                     | 2928 TOXIC SOLID, CORROSIVE, ORGANIC, N.O.S.  |
|  |                                   | <b>liquid</b> | <b>TC3</b>                                     | 3389 TOXIC BY INHALATION LIQUID, CORROSIVE, N.O.S. with an inhalation toxicity lower than or equal to 200 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 500 LC <sub>50</sub><br>3390 TOXIC BY INHALATION LIQUID, CORROSIVE, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 10 LC <sub>50</sub><br>3289 TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S. |
|  | <b>inorganic</b>                  |               |  |   |
|  | <b>solid</b>                      | <b>TC4</b>    | 3290 TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S. |   |
| <b>Flammable, corrosive</b>                        |                                   |               |  | 2742 CHLOROFORMATES, TOXIC, CORROSIVE, FLAMMABLE, N.O.S.  |
| <b>TFC</b>   |                                   |               |  | 3362 CHLOROSILANES, TOXIC, CORROSIVE, FLAMMABLE, N.O.S.<br>(No other collective entry available; if need be, classification under a collective entry with a classification code to be determined according to the table of precedence of hazards in 2.1.3.10)   |

<sup>m</sup> Substances slightly toxic and slightly corrosive, are substances of Class 8.

**2.2.62 Class 6.2 Infectious substances**

**2.2.62.1 Criteria**

2.2.62.1.1 The heading of Class 6.2 covers infectious substances. For the purposes of ADN, infectious substances are substances which are known or are reasonably expected to contain pathogens. Pathogens are defined as micro-organisms (including bacteria, viruses, rickettsiae, parasites, fungi) and other agents such as prions, which can cause disease in humans or animals.

*NOTE 1: Genetically modified micro-organisms and organisms, biological products, diagnostic specimens and infected live animals shall be assigned to this Class if they meet the conditions for this Class.*

*NOTE 2: Toxins from plant, animal or bacterial sources which do not contain any infectious substances or organisms or which are not contained in them are substances of Class 6.1, UN No. 3172 or 3462.*

2.2.62.1.2 Substances of Class 6.2 are subdivided as follows:

- I1 Infectious substances affecting humans;
- I2 Infectious substances affecting animals only;
- I3 Clinical waste;
- I4 Biological substances, category B.

*Definitions*

2.2.62.1.3 For the purposes of ADN,

*"Biological products"* are those products derived from living organisms which are manufactured and distributed in accordance with the requirements of appropriate national authorities, which may have special licensing requirements, and are used either for prevention, treatment, or diagnosis of disease in humans or animals, or for development, experimental or investigational purposes related thereto. They include, but are not limited to, finished or unfinished products such as vaccines;

*"Cultures"* are the result of a process by which pathogens are intentionally propagated. This definition does not include human or animal patient specimens as defined in this paragraph;

*"Genetically modified micro-organisms and organisms"* are micro-organisms and organisms in which genetic material has been purposely altered through genetic engineering in a way that does not occur naturally;

*"Medical or clinical wastes"* are wastes derived from the medical treatment of animals or humans or from bio-research;

*"Patient specimens"* are human or animal materials, collected directly from humans or animals, including, but not limited to, excreta, secreta, blood and its components, tissue and tissue fluid swabs, and body parts being carried for purposes such as research, diagnosis, investigational activities, disease treatment and prevention.

*Classification*

2.2.62.1.4 Infectious substances shall be classified in Class 6.2 and assigned to UN Nos 2814, 2900, 3291 or 3373, as appropriate.

Infectious substances are divided into the following categories:

2.2.62.1.4.1 Category A: An infectious substance which is carried in a form that, when exposure to it occurs, is capable of causing permanent disability, life-threatening or fatal disease in otherwise healthy humans or animals. Indicative examples of substances that meet these criteria are given in the table in this paragraph.

**NOTE :** *An exposure occurs when an infectious substance is released outside of the protective packaging, resulting in physical contact with humans or animals.*

- (a) Infectious substances meeting these criteria which cause disease in humans or both in humans and animals shall be assigned to UN No. 2814. Infectious substances which cause disease only in animals shall be assigned to UN No. 2900;
- (b) Assignment to UN No. 2814 or UN No. 2900 shall be based on the known medical history and symptoms of the source human or animal, endemic local conditions, or professional judgement concerning individual circumstances of the source human or animal.

**NOTE 1:** *The proper shipping name for UN No. 2814 is “INFECTIOUS SUBSTANCE, AFFECTING HUMANS”. The proper shipping name for UN No. 2900 is “INFECTIOUS SUBSTANCE, AFFECTING ANIMALS only”.*

**NOTE 2:** *The following table is not exhaustive. Infectious substances, including new or emerging pathogens, which do not appear in the table but which meet the same criteria shall be assigned to Category A. In addition, if there is doubt as to whether or not a substance meets the criteria it shall be included in Category A.*

**NOTE 3:** *In the following table, the micro-organisms written in italics are bacteria, mycoplasmas, rickettsia or fungi.*

**INDICATIVE EXAMPLES OF INFECTIOUS SUBSTANCES INCLUDED IN CATEGORY A  
IN ANY FORM UNLESS OTHERWISE INDICATED  
(2.2.62.1.4.1)**

| UN Number and name                                    | Microorganism  |
|---|--|
| UN No. 2814<br>Infectious substances affecting humans | <i>Bacillus anthracis (cultures only)</i><br><i>Brucella abortus (cultures only)</i><br><i>Brucella melitensis (cultures only)</i><br><i>Brucella suis (cultures only)</i><br><i>Burkholderia mallei - Pseudomonas mallei – Glanders (cultures only)</i><br><i>Burkholderia pseudomallei – Pseudomonas pseudomallei (cultures only)</i><br><i>Chlamydia psittaci - avian strains (cultures only)</i><br><i>Clostridium botulinum (cultures only)</i><br><i>Coccidioides immitis (cultures only)</i><br><i>Coxiella burnetii (cultures only)</i><br>Crimean-Congo haemorrhagic fever virus<br>Dengue virus (cultures only)<br>Eastern equine encephalitis virus (cultures only)<br><i>Escherichia coli</i> , verotoxigenic (cultures only) <sup>a</sup><br>Ebola virus<br>Flexal virus<br><i>Francisella tularensis (cultures only)</i><br>Guanarito virus<br>Hantaan virus<br>Hantavirus causing haemorrhagic fever with renal syndrome<br>Hendra virus<br>Hepatitis B virus (cultures only)<br>Herpes B virus (cultures only)<br>Human immunodeficiency virus (cultures only)<br>Highly pathogenic avian influenza virus (cultures only)<br>Japanese Encephalitis virus (cultures only)<br>Junin virus<br>Kyasanur Forest disease virus<br>Lassa virus<br>Machupo virus<br>Marburg virus<br>Monkeypox virus<br><i>Mycobacterium tuberculosis (cultures only)</i> <sup>a</sup><br>Nipah virus<br>Omsk haemorrhagic fever virus<br>Poliovirus (cultures only)<br>Rabies virus (cultures only)<br><i>Rickettsia prowazekii (cultures only)</i><br><i>Rickettsia rickettsii (cultures only)</i><br>Rift Valley fever virus (cultures only)<br>Russian spring-summer encephalitis virus (cultures only)<br>Sabia virus<br><i>Shigella dysenteriae type 1 (cultures only)</i> <sup>a</sup><br>Tick-borne encephalitis virus (cultures only)<br>Variola virus<br>Venezuelan equine encephalitis virus (cultures only)<br>West Nile virus (cultures only)<br>Yellow fever virus (cultures only)<br><i>Yersinia pestis (cultures only)</i> |

<sup>a</sup> Nevertheless, when the cultures are intended for diagnostic or clinical purposes, they may be classified as infectious substances of Category B.

| <b>INDICATIVE EXAMPLES OF INFECTIOUS SUBSTANCES INCLUDED IN CATEGORY A<br/>IN ANY FORM UNLESS OTHERWISE INDICATED<br/>(2.2.62.1.4.1)</b> |   |
|--|---|
| <b>UN Number and<br/>name</b>  | <b>Microorganism</b>  |
| <b>UN No. 2900</b><br>Infectious<br>substances<br>affecting animals<br>only  | African swine fever virus (cultures only)<br>Avian paramyxovirus Type 1 - Velogenic Newcastle disease virus (cultures only)<br>Classical swine fever virus (cultures only)<br>Foot and mouth disease virus (cultures only)<br>Lumpy skin disease virus (cultures only)<br><i>Mycoplasma mycoides</i> - Contagious bovine pleuropneumonia (cultures only)<br>Peste des petits ruminants virus (cultures only)<br>Rinderpest virus (cultures only)<br>Sheep-pox virus (cultures only)<br>Goatpox virus (cultures only)<br>Swine vesicular disease virus (cultures only)<br>Vesicular stomatitis virus (cultures only) |

2.2.62.1.4.2 Category B: An infectious substance which does not meet the criteria for inclusion in Category A. Infectious substances in Category B shall be assigned to UN No. 3373.

**NOTE:** *The proper shipping name of UN No. 3373 is "BIOLOGICAL SUBSTANCE, CATEGORY B".*

2.2.62.1.5 *Exemptions*

2.2.62.1.5.1 Substances which do not contain infectious substances or substances which are unlikely to cause disease in humans or animals are not subject to the provisions of ADN unless they meet the criteria for inclusion in another class.

2.2.62.1.5.2 Substances containing microorganisms which are non-pathogenic to humans or animals are not subject to ADN unless they meet the criteria for inclusion in another class.

2.2.62.1.5.3 Substances in a form that any present pathogens have been neutralized or inactivated such that they no longer pose a health risk are not subject to ADN unless they meet the criteria for inclusion in another class.

2.2.62.1.5.4 Substances where the concentration of pathogens is at a level naturally encountered (including foodstuff and water samples) and which are not considered to pose a significant risk of infection are not subject to ADN unless they meet the criteria for inclusion in another class.

2.2.62.1.5.5 Dried blood spots, collected by applying a drop of blood onto absorbent material, or faecal occult blood screening tests and blood or blood components which have been collected for the purposes of transfusion or for the preparation of blood products to be used for transfusion or transplantation and any tissues or organs intended for use in transplantation are not subject to the provisions of ADN.

2.2.62.1.5.6 Human or animal specimens for which there is minimal likelihood that pathogens are present are not subject to ADN if the specimen is carried in a packaging which will prevent any leakage and which is marked with the words "Exempt human specimen" or "Exempt animal specimen", as appropriate.

The packaging is deemed to comply with the above requirements if it meets the following conditions:

- (a) The packaging consists of three components:
  - (i) a leak-proof primary receptacle(s);
  - (ii) a leak-proof secondary packaging; and
  - (iii) an outer packaging of adequate strength for its capacity, mass and intended use, and with at least one surface having minimum dimensions of 100 mm × 100 mm;
- (b) For liquids, absorbent material in sufficient quantity to absorb the entire contents is placed between the primary receptacle(s) and the secondary packaging so that, during carriage, any release or leak of a liquid substance will not reach the outer packaging and will not compromise the integrity of the cushioning material;
- (c) When multiple fragile primary receptacles are placed in a single secondary packaging, they are either individually wrapped or separated to prevent contact between them.

**NOTE 1:** *An element of professional judgement is required to determine if a substance is exempt under this paragraph. That judgement should be based on the known medical history, symptoms and individual circumstances of the source, human or animal, and endemic local conditions. Examples of specimens which may be carried under this paragraph include blood or urine tests to monitor cholesterol levels, blood glucose levels, hormone levels, or prostate specific antibodies (PSA); those required to monitor organ function such as heart, liver or kidney function for humans or animals with non-infectious diseases, or for therapeutic drug monitoring; those conducted for insurance or employment purposes and intended to determine the presence of drugs or alcohol; pregnancy tests; biopsies to detect cancer; and antibody detection in humans or animals in the absence of any concern for infection (e.g. evaluation of vaccine induced immunity, diagnosis of autoimmune disease, etc.).*

**NOTE 2:** *For air transport, packagings for specimens exempted under this paragraph shall meet the conditions in (a) to (c).*

2.2.62.1.6-  
2.2.62.1.8 (Reserved)

2.2.62.1.9 *Biological products*

For the purposes of ADN, biological products are divided into the following groups:

- (a) those which are manufactured and packaged in accordance with the requirements of appropriate national authorities and carried for the purposes of final packaging or distribution, and use for personal health care by medical professionals or individuals. Substances in this group are not subject to the provisions of ADN;
- (b) those which do not fall under paragraph (a) and are known or reasonably believed to contain infectious substances and which meet the criteria for inclusion in Category A or Category B. Substances in this group shall be assigned to UN No. 2814, UN No. 2900 or UN No. 3373, as appropriate.

**NOTE:** *Some licensed biological products may present a biohazard only in certain parts of the world. In that case, competent authorities may require these biological products to be in compliance with local requirements for infectious substances or may impose other restrictions.*

2.2.62.1.10 *Genetically modified micro-organisms and organisms*

Genetically modified micro-organisms not meeting the definition of infectious substance shall be classified according to section 2.2.9.

2.2.62.1.11 *Medical or clinical wastes*

- 2.2.62.1.11.1 Medical or clinical wastes containing Category A infectious substances shall be assigned to UN No. 2814 or UN No. 2900 as appropriate. Medical or clinical wastes containing infectious substances in Category B shall be assigned to UN No. 3291.

**NOTE:** *Medical or clinical wastes assigned to number 18 01 03 (Wastes from human or animal health care and/or related research – wastes from natal care, diagnosis, treatment or prevention of disease in humans – wastes whose collection and disposal is subject to special requirement in order to prevent infection) or 18 02 02 (Wastes from human or animal health care and/or related research – wastes from research, diagnosis, treatment or prevention of disease involving animals – wastes whose collection and disposal is subject to special requirements in order to prevent infection) according to the list of wastes annexed to the Commission Decision 2000/532/EC<sup>5</sup> as amended, shall be classified according to the provisions set out in this paragraph, based on the medical or veterinary diagnosis concerning the patient or the animal.*

- 2.2.62.1.11.2 Medical or clinical wastes which are reasonably believed to have a low probability of containing infectious substances shall be assigned to UN No. 3291. For the assignment, international, regional or national waste catalogues may be taken into account.

**NOTE 1:** *The proper shipping name for UN No. 3291 is "CLINICAL WASTE, UNSPECIFIED, N.O.S." or "(BIO) MEDICAL WASTE, N.O.S". or "REGULATED MEDICAL WASTE, N.O.S".*

**NOTE 2:** *Notwithstanding the classification criteria set out above, medical or clinical wastes assigned to number 18 01 04 (Wastes from human or animal health care and/or related research – wastes from natal care, diagnosis, treatment or prevention of disease in humans – wastes whose collection and disposal is not subject to special requirements in order to prevent infection) or 18 02 03 (Wastes from human or animal health care and/or related research – wastes from research, diagnosis, treatment or prevention of disease involving animals – wastes whose collection and disposal is not subject to special requirements in order to prevent infection) according to the list of wastes annexed to the Commission Decision 2000/532/EC<sup>5</sup> as amended, are not subject to the provisions of ADN.*

- 2.2.62.1.11.3 Decontaminated medical or clinical wastes which previously contained infectious substances are not subject to the provisions of ADN unless they meet the criteria for inclusion in another class.

- 2.2.62.1.11.4 Medical or clinical wastes assigned to UN No. 3291 are assigned to packing group II.

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<sup>5</sup> *Commission Decision 2000/532/EC of 3 May 2000 replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste (replaced by the Directive 2006/12/EC of the European Parliament and of the Council (Official Journal of the European Communities No. L 114 of 27 April 2006, page 9)) and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste (Official Journal of the European Communities No. L 226 of 6 September 2000, page 3).*

2.2.62.1.12 *Infected animals*

2.2.62.1.12.1 Unless an infectious substance cannot be consigned by any other means, live animals shall not be used to consign such a substance. A live animal which has been intentionally infected and is known or suspected to contain an infectious substance shall only be carried under terms and conditions approved by the competent authority<sup>6</sup>.

2.2.62.1.12.2 Animal material affected by pathogens of Category A or by pathogens which would be assigned to Category A in cultures only, shall be assigned to UN 2814 or UN 2900 as appropriate. Animal material affected by pathogens of Category B, other than those which would be assigned to Category A if they were in cultures, shall be assigned to UN 3373.

2.2.62.2 *Substances not accepted for carriage*

Live vertebrate or invertebrate animals shall not be used to carry an infectious agent unless the agent cannot be carried by other means or unless this carriage has been approved by the competent authority (see 2.2.62.1.12.1).

2.2.62.3 *List of collective entries*

|                                |           |   |
|--------------------------------|-----------|---|
| <b>Effects on humans</b>       | <b>I1</b> | 2814 INFECTIOUS SUBSTANCE, AFFECTING HUMANS   |
| <b>Effects on animals only</b> | <b>I2</b> | 2900 INFECTIOUS SUBSTANCE, AFFECTING ANIMALS only   |
| <b>Clinical waste</b>          | <b>I3</b> | 3291 CLINICAL WASTE, UNSPECIFIED, N.O.S. or<br>3291 (BIO)MEDICAL WASTE, N.O.S. or<br>3291 REGULATED MEDICAL WASTE, N.O.S. |
| <b>Biological substances</b>   | <b>I4</b> | 3373 BIOLOGICAL SUBSTANCE, CATEGORY B   |

<sup>6</sup> Such regulations are contained in, e.g. Directive 91/628/EEC (Official Journal of the European Communities No. L 340 of 11 December 1991, p. 17) and in the Recommendations of the Council of Europe (Ministerial Committee) on the carriage of certain animal species.



**2.2.7 Class 7 Radioactive material**

**2.2.7.1 Definitions**

2.2.7.1.1 *Radioactive material* means any material containing radionuclides where both the activity concentration and the total activity in the consignment exceed the values specified in 2.2.7.2.2.1 to 2.2.7.2.2.6.

2.2.7.1.2 *Contamination*

*Contamination* means the presence of a radioactive substance on a surface in quantities in excess of 0.4 Bq/cm<sup>2</sup> for beta and gamma emitters and low toxicity alpha emitters, or 0.04 Bq/cm<sup>2</sup> for all other alpha emitters.

*Non-fixed contamination* means contamination that can be removed from a surface during routine conditions of carriage.

*Fixed contamination* means contamination other than non-fixed contamination.

2.2.7.1.3 *Definitions of specific terms*

*A<sub>1</sub>* and *A<sub>2</sub>*

*A<sub>1</sub>* means the activity value of special form radioactive material which is listed in the Table in 2.2.7.2.2.1 or derived in 2.2.7.2.2.2 and is used to determine the activity limits for the requirements of ADN.

*A<sub>2</sub>* means the activity value of radioactive material, other than special form radioactive material, which is listed in the Table in 2.2.7.2.2.1 or derived in 2.2.7.2.2.2 and is used to determine the activity limits for the requirements of ADN.

*Fissile material* means uranium-233, uranium-235, plutonium-239, plutonium-241, or any combination of these radionuclides. Excepted from this definition is:

- (a) Natural uranium or depleted uranium which is unirradiated; and
- (b) Natural uranium or depleted uranium which has been irradiated in thermal reactors only.

*Low dispersible radioactive material* means either a solid radioactive material or a solid radioactive material in a sealed capsule, that has limited dispersibility and is not in powder form.

*Low specific activity (LSA) material* means radioactive material which by its nature has a limited specific activity, or radioactive material for which limits of estimated average specific activity apply. External shielding materials surrounding the LSA material shall not be considered in determining the estimated average specific activity.

*Low toxicity alpha emitters* are: natural uranium; depleted uranium; natural thorium; uranium-235 or uranium-238; thorium-232; thorium-228 and thorium-230 when contained in ores or physical and chemical concentrates; or alpha emitters with a half-life of less than 10 days.

*Specific activity of a radionuclide* means the activity per unit mass of that nuclide. The specific activity of a material shall mean the activity per unit mass of the material in which the radionuclides are essentially uniformly distributed.

*Special form radioactive material* means either:

- (a) An indispersible solid radioactive material; or
- (b) A sealed capsule containing radioactive material.

*Surface contaminated object (SCO)* means a solid object which is not itself radioactive but which has radioactive material distributed on its surfaces.

*Unirradiated thorium* means thorium containing not more than  $10^{-7}$  g of uranium-233 per gram of thorium-232.

*Unirradiated uranium* means uranium containing not more than  $2 \times 10^3$  Bq of plutonium per gram of uranium-235, not more than  $9 \times 10^6$  Bq of fission products per gram of uranium-235 and not more than  $5 \times 10^{-3}$  g of uranium-236 per gram of uranium-235.

*Uranium - natural, depleted, enriched* means the following:

*Natural uranium* means uranium (which may be chemically separated) containing the naturally occurring distribution of uranium isotopes (approximately 99.28% uranium-238, and 0.72% uranium-235 by mass).

*Depleted uranium* means uranium containing a lesser mass percentage of uranium-235 than in natural uranium.

*Enriched uranium* means uranium containing a greater mass percentage of uranium-235 than 0.72%.

In all cases, a very small mass percentage of uranium-234 is present.

## 2.2.7.2 Classification

### 2.2.7.2.1 General provisions

- 2.2.7.2.1.1 Radioactive material shall be assigned to one of the UN number specified in Table 2.2.7.2.1.1 depending on the activity level of the radionuclides contained in a package, the fissile or non-fissile properties of these radionuclides, the type of package to be presented for carriage, and the nature or form of the contents of the package, or special arrangements governing the carriage operation, in accordance with the provisions laid down in 2.2.7.2.2 to 2.2.7.2.5.

**Table 2.2.7.2.1.1 Assignment of UN numbers**

| <b>Excepted packages</b> |  |
|--------------------------|--|
| (1.7.1.5)                |  |
| UN 2908                  | RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - EMPTY PACKAGING   |
| UN 2909                  | RADIOACTIVE MATERIAL, EXCEPTED PACKAGE – ARTICLES<br>MANUFACTURED FROM NATURAL URANIUM or DEPLETED URANIUM or<br>NATURAL THORIUM |
| UN 2910                  | RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - LIMITED QUANTITY OF<br>MATERIAL   |
| UN 2911                  | RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - INSTRUMENTS or<br>ARTICLES  |

|  |   |
|--|---|
| <b>Low specific activity radioactive material</b><br>(2.2.7.2.3.1) |   |
| UN 2912  | RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-I), non-fissile or fissile-excepted                  |
| UN 3321  | RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-II), non fissile or fissile-excepted                 |
| UN 3322  | RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-III), non fissile or fissile-excepted                |
| UN 3324  | RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-II), FISSILE   |
| UN 3325  | RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-III), FISSILE  |
| <b>Surface contaminated objects</b><br>(2.2.7.2.3.2)               |   |
| UN 2913  | RADIOACTIVE MATERIAL, SURFACE CONTAMINATED OBJECTS (SCO-I or SCO-II), non-fissile or fissile-excepted |
| UN 3326  | RADIOACTIVE MATERIAL, SURFACE CONTAMINATED OBJECTS (SCO-I or SCO-II), FISSILE                         |
| <b>Type A packages</b><br>(2.2.7.2.4.4)                            |   |
| UN 2915  | RADIOACTIVE MATERIAL, TYPE A PACKAGE, non-special form, non-fissile or fissile-excepted               |
| UN 3327  | RADIOACTIVE MATERIAL, TYPE A PACKAGE, FISSILE, non-special form                                       |
| UN 3332  | RADIOACTIVE MATERIAL, TYPE A PACKAGE, SPECIAL FORM, non fissile or fissile-excepted                   |
| UN 3333  | RADIOACTIVE MATERIAL, TYPE A PACKAGE, SPECIAL FORM, FISSILE   |
| <b>Type B(U) packages</b><br>(2.2.7.2.4.6)                         |   |
| UN 2916  | RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, non-fissile or fissile-excepted                              |
| UN 3328  | RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE  |
| <b>Type B(M) packages</b><br>(2.2.7.2.4.6)                         |   |
| UN 2917  | RADIOACTIVE MATERIAL, TYPE B(M) PACKAGE, non-fissile or fissile-excepted                              |
| UN 3329  | RADIOACTIVE MATERIAL, TYPE B(M) PACKAGE, FISSILE  |
| <b>Type C packages</b><br>(2.2.7.2.4.6)                            |   |
| UN 3323  | RADIOACTIVE MATERIAL, TYPE C PACKAGE, non fissile or fissile-excepted                                 |
| UN 3330  | RADIOACTIVE MATERIAL, TYPE C PACKAGE, FISSILE   |
| <b>Special arrangement</b><br>(2.2.7.2.5)                          |   |
| UN 2919  | RADIOACTIVE MATERIAL, TRANSPORTED UNDER SPECIAL ARRANGEMENT, non-fissile or fissile-excepted          |
| UN 3331  | RADIOACTIVE MATERIAL, TRANSPORTED UNDER SPECIAL ARRANGEMENT, FISSILE                                  |
| <b>Uranium hexafluoride</b><br>(2.2.7.2.4.5)                       |   |
| UN 2977  | RADIOACTIVE MATERIAL, URANIUM HEXAFLUORIDE, FISSILE   |
| UN 2978  | RADIOACTIVE MATERIAL, URANIUM HEXAFLUORIDE, non-fissile or fissile-excepted                           |

2.2.7.2.2 *Determination of activity level*

2.2.7.2.2.1 The following basic values for individual radionuclides are given in Table 2.2.7.2.2.1:

- (a)  $A_1$  and  $A_2$  in TBq;
- (b) Activity concentration for exempt material in Bq/g; and
- (c) Activity limits for exempt consignments in Bq.

**Table 2.2.7.2.2.1: Basic radionuclides values for individual radionuclides**

| <b>Radionuclide<br/>(atomic number)</b> | $A_1$<br><b>(TBq)</b> | $A_2$<br><b>(TBq)</b> | <b>Activity<br/>concentration<br/>for exempt<br/>material<br/>(Bq/g)</b> | <b>Activity limit<br/>for an exempt<br/>consignment<br/>(Bq)</b> |
|---|-----------------------|-----------------------|--|--|
| Actinium (89)                           |                       |                       |  |  |
| Ac-225 (a)                              | $8 \times 10^{-1}$    | $6 \times 10^{-3}$    | $1 \times 10^1$  | $1 \times 10^4$  |
| Ac-227 (a)                              | $9 \times 10^{-1}$    | $9 \times 10^{-5}$    | $1 \times 10^{-1}$   | $1 \times 10^3$  |
| Ac-228                                  | $6 \times 10^{-1}$    | $5 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^6$  |
| Silver (47)                             |                       |                       |  |  |
| Ag-105                                  | $2 \times 10^0$       | $2 \times 10^0$       | $1 \times 10^2$  | $1 \times 10^6$  |
| Ag-108m (a)                             | $7 \times 10^{-1}$    | $7 \times 10^{-1}$    | $1 \times 10^1$ (b)  | $1 \times 10^6$ (b)  |
| Ag-110m (a)                             | $4 \times 10^{-1}$    | $4 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^6$  |
| Ag-111                                  | $2 \times 10^0$       | $6 \times 10^{-1}$    | $1 \times 10^3$  | $1 \times 10^6$  |
| Aluminium (13)                          |                       |                       |  |  |
| Al-26                                   | $1 \times 10^{-1}$    | $1 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^5$  |
| Americium (95)                          |                       |                       |  |  |
| Am-241                                  | $1 \times 10^1$       | $1 \times 10^{-3}$    | $1 \times 10^0$  | $1 \times 10^4$  |
| Am-242m (a)                             | $1 \times 10^1$       | $1 \times 10^{-3}$    | $1 \times 10^0$ (b)  | $1 \times 10^4$ (b)  |
| Am-243 (a)                              | $5 \times 10^0$       | $1 \times 10^{-3}$    | $1 \times 10^0$ (b)  | $1 \times 10^3$ (b)  |
| Argon (18)                              |                       |                       |  |  |
| Ar-37                                   | $4 \times 10^1$       | $4 \times 10^1$       | $1 \times 10^6$  | $1 \times 10^8$  |
| Ar-39                                   | $4 \times 10^1$       | $2 \times 10^1$       | $1 \times 10^7$  | $1 \times 10^4$  |
| Ar-41                                   | $3 \times 10^{-1}$    | $3 \times 10^{-1}$    | $1 \times 10^2$  | $1 \times 10^9$  |
| Arsenic (33)                            |                       |                       |  |  |
| As-72                                   | $3 \times 10^{-1}$    | $3 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^5$  |
| As-73                                   | $4 \times 10^1$       | $4 \times 10^1$       | $1 \times 10^3$  | $1 \times 10^7$  |
| As-74                                   | $1 \times 10^0$       | $9 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^6$  |
| As-76                                   | $3 \times 10^{-1}$    | $3 \times 10^{-1}$    | $1 \times 10^2$  | $1 \times 10^5$  |
| As-77                                   | $2 \times 10^1$       | $7 \times 10^{-1}$    | $1 \times 10^3$  | $1 \times 10^6$  |
| Astatine (85)                           |                       |                       |  |  |
| At-211 (a)                              | $2 \times 10^1$       | $5 \times 10^{-1}$    | $1 \times 10^3$  | $1 \times 10^7$  |
| Gold (79)                               |                       |                       |  |  |
| Au-193                                  | $7 \times 10^0$       | $2 \times 10^0$       | $1 \times 10^2$  | $1 \times 10^7$  |

| <b>Radionuclide<br/>(atomic number)</b> | $A_1$<br><b>(TBq)</b> | $A_2$<br><b>(TBq)</b> | <b>Activity<br/>concentration<br/>for exempt<br/>material<br/>(Bq/g)</b> | <b>Activity limit<br/>for an exempt<br/>consignment<br/>(Bq)</b> |
|---|-----------------------|-----------------------|--|--|
| Au-194                                  | $1 \times 10^0$       | $1 \times 10^0$       | $1 \times 10^1$  | $1 \times 10^6$  |
| Au-195                                  | $1 \times 10^1$       | $6 \times 10^0$       | $1 \times 10^2$  | $1 \times 10^7$  |
| Au-198                                  | $1 \times 10^0$       | $6 \times 10^{-1}$    | $1 \times 10^2$  | $1 \times 10^6$  |
| Au-199                                  | $1 \times 10^1$       | $6 \times 10^{-1}$    | $1 \times 10^2$  | $1 \times 10^6$  |
| Barium (56)                             |                       |                       |  |  |
| Ba-131 (a)                              | $2 \times 10^0$       | $2 \times 10^0$       | $1 \times 10^2$  | $1 \times 10^6$  |
| Ba-133                                  | $3 \times 10^0$       | $3 \times 10^0$       | $1 \times 10^2$  | $1 \times 10^6$  |
| Ba-133m                                 | $2 \times 10^1$       | $6 \times 10^{-1}$    | $1 \times 10^2$  | $1 \times 10^6$  |
| Ba-140 (a)                              | $5 \times 10^{-1}$    | $3 \times 10^{-1}$    | $1 \times 10^1$ (b)  | $1 \times 10^5$ (b)  |
| Beryllium (4)                           |                       |                       |  |  |
| Be-7                                    | $2 \times 10^1$       | $2 \times 10^1$       | $1 \times 10^3$  | $1 \times 10^7$  |
| Be-10                                   | $4 \times 10^1$       | $6 \times 10^{-1}$    | $1 \times 10^4$  | $1 \times 10^6$  |
| Bismuth (83)                            |                       |                       |  |  |
| Bi-205                                  | $7 \times 10^{-1}$    | $7 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^6$  |
| Bi-206                                  | $3 \times 10^{-1}$    | $3 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^5$  |
| Bi-207                                  | $7 \times 10^{-1}$    | $7 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^6$  |
| Bi-210                                  | $1 \times 10^0$       | $6 \times 10^{-1}$    | $1 \times 10^3$  | $1 \times 10^6$  |
| Bi-210m (a)                             | $6 \times 10^{-1}$    | $2 \times 10^{-2}$    | $1 \times 10^1$  | $1 \times 10^5$  |
| Bi-212 (a)                              | $7 \times 10^{-1}$    | $6 \times 10^{-1}$    | $1 \times 10^1$ (b)  | $1 \times 10^5$ (b)  |
| Berkelium (97)                          |                       |                       |  |  |
| Bk-247                                  | $8 \times 10^0$       | $8 \times 10^{-4}$    | $1 \times 10^0$  | $1 \times 10^4$  |
| Bk-249 (a)                              | $4 \times 10^1$       | $3 \times 10^{-1}$    | $1 \times 10^3$  | $1 \times 10^6$  |
| Bromine (35)                            |                       |                       |  |  |
| Br-76                                   | $4 \times 10^{-1}$    | $4 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^5$  |
| Br-77                                   | $3 \times 10^0$       | $3 \times 10^0$       | $1 \times 10^2$  | $1 \times 10^6$  |
| Br-82                                   | $4 \times 10^{-1}$    | $4 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^6$  |
| Carbon (6)                              |                       |                       |  |  |
| C-11                                    | $1 \times 10^0$       | $6 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^6$  |
| C-14                                    | $4 \times 10^1$       | $3 \times 10^0$       | $1 \times 10^4$  | $1 \times 10^7$  |
| Calcium (20)                            |                       |                       |  |  |
| Ca-41                                   | Unlimited             | Unlimited             | $1 \times 10^5$  | $1 \times 10^7$  |

| <b>Radionuclide<br/>(atomic number)</b> | <b><math>A_1</math><br/>(TBq)</b> | <b><math>A_2</math><br/>(TBq)</b> | <b>Activity<br/>concentration<br/>for exempt<br/>material<br/>(Bq/g)</b> | <b>Activity limit<br/>for an exempt<br/>consignment<br/>(Bq)</b> |
|---|-----------------------------------|-----------------------------------|--|--|
| Ca-45                                   | $4 \times 10^1$                   | $1 \times 10^0$                   | $1 \times 10^4$  | $1 \times 10^7$  |
| Ca-47 (a)                               | $3 \times 10^0$                   | $3 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^6$  |
| Cadmium (48)                            |                                   |                                   |  |  |
| Cd-109                                  | $3 \times 10^1$                   | $2 \times 10^0$                   | $1 \times 10^4$  | $1 \times 10^6$  |
| Cd-113m                                 | $4 \times 10^1$                   | $5 \times 10^{-1}$                | $1 \times 10^3$  | $1 \times 10^6$  |
| Cd-115 (a)                              | $3 \times 10^0$                   | $4 \times 10^{-1}$                | $1 \times 10^2$  | $1 \times 10^6$  |
| Cd-115m                                 | $5 \times 10^{-1}$                | $5 \times 10^{-1}$                | $1 \times 10^3$  | $1 \times 10^6$  |
| Cerium (58)                             |                                   |                                   |  |  |
| Ce-139                                  | $7 \times 10^0$                   | $2 \times 10^0$                   | $1 \times 10^2$  | $1 \times 10^6$  |
| Ce-141                                  | $2 \times 10^1$                   | $6 \times 10^{-1}$                | $1 \times 10^2$  | $1 \times 10^7$  |
| Ce-143                                  | $9 \times 10^{-1}$                | $6 \times 10^{-1}$                | $1 \times 10^2$  | $1 \times 10^6$  |
| Ce-144 (a)                              | $2 \times 10^{-1}$                | $2 \times 10^{-1}$                | $1 \times 10^2$ (b)  | $1 \times 10^5$ (b)  |
| Californium (98)                        |                                   |                                   |  |  |
| Cf-248                                  | $4 \times 10^1$                   | $6 \times 10^{-3}$                | $1 \times 10^1$  | $1 \times 10^4$  |
| Cf-249                                  | $3 \times 10^0$                   | $8 \times 10^{-4}$                | $1 \times 10^0$  | $1 \times 10^3$  |
| Cf-250                                  | $2 \times 10^1$                   | $2 \times 10^{-3}$                | $1 \times 10^1$  | $1 \times 10^4$  |
| Cf-251                                  | $7 \times 10^0$                   | $7 \times 10^{-4}$                | $1 \times 10^0$  | $1 \times 10^3$  |
| Cf-252                                  | $1 \times 10^{-1}$                | $3 \times 10^{-3}$                | $1 \times 10^1$  | $1 \times 10^4$  |
| Cf-253 (a)                              | $4 \times 10^1$                   | $4 \times 10^{-2}$                | $1 \times 10^2$  | $1 \times 10^5$  |
| Cf-254                                  | $1 \times 10^{-3}$                | $1 \times 10^{-3}$                | $1 \times 10^0$  | $1 \times 10^3$  |
| Chlorine (17)                           |                                   |                                   |  |  |
| Cl-36                                   | $1 \times 10^1$                   | $6 \times 10^{-1}$                | $1 \times 10^4$  | $1 \times 10^6$  |
| Cl-38                                   | $2 \times 10^{-1}$                | $2 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^5$  |
| Curium (96)                             |                                   |                                   |  |  |
| Cm-240                                  | $4 \times 10^1$                   | $2 \times 10^{-2}$                | $1 \times 10^2$  | $1 \times 10^5$  |
| Cm-241                                  | $2 \times 10^0$                   | $1 \times 10^0$                   | $1 \times 10^2$  | $1 \times 10^6$  |
| Cm-242                                  | $4 \times 10^1$                   | $1 \times 10^{-2}$                | $1 \times 10^2$  | $1 \times 10^5$  |
| Cm-243                                  | $9 \times 10^0$                   | $1 \times 10^{-3}$                | $1 \times 10^0$  | $1 \times 10^4$  |
| Cm-244                                  | $2 \times 10^1$                   | $2 \times 10^{-3}$                | $1 \times 10^1$  | $1 \times 10^4$  |
| Cm-245                                  | $9 \times 10^0$                   | $9 \times 10^{-4}$                | $1 \times 10^0$  | $1 \times 10^3$  |
| Cm-246                                  | $9 \times 10^0$                   | $9 \times 10^{-4}$                | $1 \times 10^0$  | $1 \times 10^3$  |

| <b>Radionuclide<br/>(atomic number)</b> | <b><math>A_1</math><br/>(TBq)</b> | <b><math>A_2</math><br/>(TBq)</b> | <b>Activity<br/>concentration<br/>for exempt<br/>material<br/>(Bq/g)</b> | <b>Activity limit<br/>for an exempt<br/>consignment<br/>(Bq)</b> |
|---|-----------------------------------|-----------------------------------|--|--|
| Cm-247 (a)                              | $3 \times 10^0$                   | $1 \times 10^{-3}$                | $1 \times 10^0$  | $1 \times 10^4$  |
| Cm-248                                  | $2 \times 10^{-2}$                | $3 \times 10^{-4}$                | $1 \times 10^0$  | $1 \times 10^3$  |
| Cobalt (27)                             |                                   |                                   |  |  |
| Co-55                                   | $5 \times 10^{-1}$                | $5 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^6$  |
| Co-56                                   | $3 \times 10^{-1}$                | $3 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^5$  |
| Co-57                                   | $1 \times 10^1$                   | $1 \times 10^1$                   | $1 \times 10^2$  | $1 \times 10^6$  |
| Co-58                                   | $1 \times 10^0$                   | $1 \times 10^0$                   | $1 \times 10^1$  | $1 \times 10^6$  |
| Co-58m                                  | $4 \times 10^1$                   | $4 \times 10^1$                   | $1 \times 10^4$  | $1 \times 10^7$  |
| Co-60                                   | $4 \times 10^{-1}$                | $4 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^5$  |
| Chromium (24)                           |                                   |                                   |  |  |
| Cr-51                                   | $3 \times 10^1$                   | $3 \times 10^1$                   | $1 \times 10^3$  | $1 \times 10^7$  |
| Caesium (55)                            |                                   |                                   |  |  |
| Cs-129                                  | $4 \times 10^0$                   | $4 \times 10^0$                   | $1 \times 10^2$  | $1 \times 10^5$  |
| Cs-131                                  | $3 \times 10^1$                   | $3 \times 10^1$                   | $1 \times 10^3$  | $1 \times 10^6$  |
| Cs-132                                  | $1 \times 10^0$                   | $1 \times 10^0$                   | $1 \times 10^1$  | $1 \times 10^5$  |
| Cs-134                                  | $7 \times 10^{-1}$                | $7 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^4$  |
| Cs-134m                                 | $4 \times 10^1$                   | $6 \times 10^{-1}$                | $1 \times 10^3$  | $1 \times 10^5$  |
| Cs-135                                  | $4 \times 10^1$                   | $1 \times 10^0$                   | $1 \times 10^4$  | $1 \times 10^7$  |
| Cs-136                                  | $5 \times 10^{-1}$                | $5 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^5$  |
| Cs-137 (a)                              | $2 \times 10^0$                   | $6 \times 10^{-1}$                | $1 \times 10^1$ (b)  | $1 \times 10^4$ (b)  |
| Copper (29)                             |                                   |                                   |  |  |
| Cu-64                                   | $6 \times 10^0$                   | $1 \times 10^0$                   | $1 \times 10^2$  | $1 \times 10^6$  |
| Cu-67                                   | $1 \times 10^1$                   | $7 \times 10^{-1}$                | $1 \times 10^2$  | $1 \times 10^6$  |
| Dysprosium (66)                         |                                   |                                   |  |  |
| Dy-159                                  | $2 \times 10^1$                   | $2 \times 10^1$                   | $1 \times 10^3$  | $1 \times 10^7$  |
| Dy-165                                  | $9 \times 10^{-1}$                | $6 \times 10^{-1}$                | $1 \times 10^3$  | $1 \times 10^6$  |
| Dy-166 (a)                              | $9 \times 10^{-1}$                | $3 \times 10^{-1}$                | $1 \times 10^3$  | $1 \times 10^6$  |
| Erbium (68)                             |                                   |                                   |  |  |
| Er-169                                  | $4 \times 10^1$                   | $1 \times 10^0$                   | $1 \times 10^4$  | $1 \times 10^7$  |
| Er-171                                  | $8 \times 10^{-1}$                | $5 \times 10^{-1}$                | $1 \times 10^2$  | $1 \times 10^6$  |
| Europium (63)                           |                                   |                                   |  |  |



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|---|-----------------------------------|-----------------------------------|--|--|
| Eu-147                                  | $2 \times 10^0$                   | $2 \times 10^0$                   | $1 \times 10^2$  | $1 \times 10^6$  |
| Eu-148                                  | $5 \times 10^{-1}$                | $5 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^6$  |
| Eu-149                                  | $2 \times 10^1$                   | $2 \times 10^1$                   | $1 \times 10^2$  | $1 \times 10^7$  |
| Eu-150(short lived)                     | $2 \times 10^0$                   | $7 \times 10^{-1}$                | $1 \times 10^3$  | $1 \times 10^6$  |
| Eu-150(long lived)                      | $7 \times 10^{-1}$                | $7 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^6$  |
| Eu-152                                  | $1 \times 10^0$                   | $1 \times 10^0$                   | $1 \times 10^1$  | $1 \times 10^6$  |
| Eu-152m                                 | $8 \times 10^{-1}$                | $8 \times 10^{-1}$                | $1 \times 10^2$  | $1 \times 10^6$  |
| Eu-154                                  | $9 \times 10^{-1}$                | $6 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^6$  |
| Eu-155                                  | $2 \times 10^1$                   | $3 \times 10^0$                   | $1 \times 10^2$  | $1 \times 10^7$  |
| Eu-156                                  | $7 \times 10^{-1}$                | $7 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^6$  |
| Fluorine (9)                            |                                   |                                   |  |  |
| F-18                                    | $1 \times 10^0$                   | $6 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^6$  |
| Iron (26)                               |                                   |                                   |  |  |
| Fe-52 (a)                               | $3 \times 10^{-1}$                | $3 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^6$  |
| Fe-55                                   | $4 \times 10^1$                   | $4 \times 10^1$                   | $1 \times 10^4$  | $1 \times 10^6$  |
| Fe-59                                   | $9 \times 10^{-1}$                | $9 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^6$  |
| Fe-60 (a)                               | $4 \times 10^1$                   | $2 \times 10^{-1}$                | $1 \times 10^2$  | $1 \times 10^5$  |
| Gallium (31)                            |                                   |                                   |  |  |
| Ga-67                                   | $7 \times 10^0$                   | $3 \times 10^0$                   | $1 \times 10^2$  | $1 \times 10^6$  |
| Ga-68                                   | $5 \times 10^{-1}$                | $5 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^5$  |
| Ga-72                                   | $4 \times 10^{-1}$                | $4 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^5$  |
| Gadolinium (64)                         |                                   |                                   |  |  |
| Gd-146 (a)                              | $5 \times 10^{-1}$                | $5 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^6$  |
| Gd-148                                  | $2 \times 10^1$                   | $2 \times 10^{-3}$                | $1 \times 10^1$  | $1 \times 10^4$  |
| Gd-153                                  | $1 \times 10^1$                   | $9 \times 10^0$                   | $1 \times 10^2$  | $1 \times 10^7$  |
| Gd-159                                  | $3 \times 10^0$                   | $6 \times 10^{-1}$                | $1 \times 10^3$  | $1 \times 10^6$  |
| Germanium (32)                          |                                   |                                   |  |  |
| Ge-68 (a)                               | $5 \times 10^{-1}$                | $5 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^5$  |
| Ge-71                                   | $4 \times 10^1$                   | $4 \times 10^1$                   | $1 \times 10^4$  | $1 \times 10^8$  |
| Ge-77                                   | $3 \times 10^{-1}$                | $3 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^5$  |
| Hafnium (72)                            |                                   |                                   |  |  |

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|---|-----------------------------------|-----------------------------------|--|--|
| Hf-172 (a)                              | $6 \times 10^{-1}$                | $6 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^6$  |
| Hf-175                                  | $3 \times 10^0$                   | $3 \times 10^0$                   | $1 \times 10^2$  | $1 \times 10^6$  |
| Hf-181                                  | $2 \times 10^0$                   | $5 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^6$  |
| Hf-182                                  | Unlimited                         | Unlimited                         | $1 \times 10^2$  | $1 \times 10^6$  |
| Mercury (80)                            |                                   |                                   |  |  |
| Hg-194 (a)                              | $1 \times 10^0$                   | $1 \times 10^0$                   | $1 \times 10^1$  | $1 \times 10^6$  |
| Hg-195m (a)                             | $3 \times 10^0$                   | $7 \times 10^{-1}$                | $1 \times 10^2$  | $1 \times 10^6$  |
| Hg-197                                  | $2 \times 10^1$                   | $1 \times 10^1$                   | $1 \times 10^2$  | $1 \times 10^7$  |
| Hg-197m                                 | $1 \times 10^1$                   | $4 \times 10^{-1}$                | $1 \times 10^2$  | $1 \times 10^6$  |
| Hg-203                                  | $5 \times 10^0$                   | $1 \times 10^0$                   | $1 \times 10^2$  | $1 \times 10^5$  |
| Holmium (67)                            |                                   |                                   |  |  |
| Ho-166                                  | $4 \times 10^{-1}$                | $4 \times 10^{-1}$                | $1 \times 10^3$  | $1 \times 10^5$  |
| Ho-166m                                 | $6 \times 10^{-1}$                | $5 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^6$  |
| Iodine (53)                             |                                   |                                   |  |  |
| I-123                                   | $6 \times 10^0$                   | $3 \times 10^0$                   | $1 \times 10^2$  | $1 \times 10^7$  |
| I-124                                   | $1 \times 10^0$                   | $1 \times 10^0$                   | $1 \times 10^1$  | $1 \times 10^6$  |
| I-125                                   | $2 \times 10^1$                   | $3 \times 10^0$                   | $1 \times 10^3$  | $1 \times 10^6$  |
| I-126                                   | $2 \times 10^0$                   | $1 \times 10^0$                   | $1 \times 10^2$  | $1 \times 10^6$  |
| I-129                                   | Unlimited                         | Unlimited                         | $1 \times 10^2$  | $1 \times 10^5$  |
| I-131                                   | $3 \times 10^0$                   | $7 \times 10^{-1}$                | $1 \times 10^2$  | $1 \times 10^6$  |
| I-132                                   | $4 \times 10^{-1}$                | $4 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^5$  |
| I-133                                   | $7 \times 10^{-1}$                | $6 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^6$  |
| I-134                                   | $3 \times 10^{-1}$                | $3 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^5$  |
| I-135 (a)                               | $6 \times 10^{-1}$                | $6 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^6$  |
| Indium (49)                             |                                   |                                   |  |  |
| In-111                                  | $3 \times 10^0$                   | $3 \times 10^0$                   | $1 \times 10^2$  | $1 \times 10^6$  |
| In-113m                                 | $4 \times 10^0$                   | $2 \times 10^0$                   | $1 \times 10^2$  | $1 \times 10^6$  |
| In-114m (a)                             | $1 \times 10^1$                   | $5 \times 10^{-1}$                | $1 \times 10^2$  | $1 \times 10^6$  |
| In-115m                                 | $7 \times 10^0$                   | $1 \times 10^0$                   | $1 \times 10^2$  | $1 \times 10^6$  |
| Iridium (77)                            |                                   |                                   |  |  |
| Ir-189 (a)                              | $1 \times 10^1$                   | $1 \times 10^1$                   | $1 \times 10^2$  | $1 \times 10^7$  |

| <b>Radionuclide<br/>(atomic number)</b> | $A_1$<br><b>(TBq)</b> | $A_2$<br><b>(TBq)</b> | <b>Activity<br/>concentration<br/>for exempt<br/>material<br/>(Bq/g)</b> | <b>Activity limit<br/>for an exempt<br/>consignment<br/>(Bq)</b> |
|---|-----------------------|-----------------------|--|--|
| Ir-190                                  | $7 \times 10^{-1}$    | $7 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^6$  |
| Ir-192                                  | $1 \times 10^0$ (c)   | $6 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^4$  |
| Ir-194                                  | $3 \times 10^{-1}$    | $3 \times 10^{-1}$    | $1 \times 10^2$  | $1 \times 10^5$  |
| Potassium (19)                          |                       |                       |  |  |
| K-40                                    | $9 \times 10^{-1}$    | $9 \times 10^{-1}$    | $1 \times 10^2$  | $1 \times 10^6$  |
| K-42                                    | $2 \times 10^{-1}$    | $2 \times 10^{-1}$    | $1 \times 10^2$  | $1 \times 10^6$  |
| K-43                                    | $7 \times 10^{-1}$    | $6 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^6$  |
| Krypton (36)                            |                       |                       |  |  |
| Kr-79                                   | $4 \times 10^0$       | $1 \times 10^0$       | $1 \times 10^3$  | $1 \times 10^5$  |
| Kr-81                                   | $4 \times 10^1$       | $4 \times 10^1$       | $1 \times 10^4$  | $1 \times 10^7$  |
| Kr-85                                   | $1 \times 10^1$       | $1 \times 10^1$       | $1 \times 10^5$  | $1 \times 10^4$  |
| Kr-85m                                  | $8 \times 10^0$       | $3 \times 10^0$       | $1 \times 10^3$  | $1 \times 10^{10}$   |
| Kr-87                                   | $2 \times 10^{-1}$    | $2 \times 10^{-1}$    | $1 \times 10^2$  | $1 \times 10^9$  |
| Lanthanum (57)                          |                       |                       |  |  |
| La-137                                  | $3 \times 10^1$       | $6 \times 10^0$       | $1 \times 10^3$  | $1 \times 10^7$  |
| La-140                                  | $4 \times 10^{-1}$    | $4 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^5$  |
| Lutetium (71)                           |                       |                       |  |  |
| Lu-172                                  | $6 \times 10^{-1}$    | $6 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^6$  |
| Lu-173                                  | $8 \times 10^0$       | $8 \times 10^0$       | $1 \times 10^2$  | $1 \times 10^7$  |
| Lu-174                                  | $9 \times 10^0$       | $9 \times 10^0$       | $1 \times 10^2$  | $1 \times 10^7$  |
| Lu-174m                                 | $2 \times 10^1$       | $1 \times 10^1$       | $1 \times 10^2$  | $1 \times 10^7$  |
| Lu-177                                  | $3 \times 10^1$       | $7 \times 10^{-1}$    | $1 \times 10^3$  | $1 \times 10^7$  |
| Magnesium (12)                          |                       |                       |  |  |
| Mg-28 (a)                               | $3 \times 10^{-1}$    | $3 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^5$  |
| Manganese (25)                          |                       |                       |  |  |
| Mn-52                                   | $3 \times 10^{-1}$    | $3 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^5$  |
| Mn-53                                   | Unlimited             | Unlimited             | $1 \times 10^4$  | $1 \times 10^9$  |
| Mn-54                                   | $1 \times 10^0$       | $1 \times 10^0$       | $1 \times 10^1$  | $1 \times 10^6$  |
| Mn-56                                   | $3 \times 10^{-1}$    | $3 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^5$  |
| Molybdenum (42)                         |                       |                       |  |  |
| Mo-93                                   | $4 \times 10^1$       | $2 \times 10^1$       | $1 \times 10^3$  | $1 \times 10^8$  |

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|---|-----------------------|-----------------------|--|--|
| Mo-99 (a)                               | $1 \times 10^0$       | $6 \times 10^{-1}$    | $1 \times 10^2$  | $1 \times 10^6$  |
| Nitrogen (7)                            |                       |                       |  |  |
| N-13                                    | $9 \times 10^{-1}$    | $6 \times 10^{-1}$    | $1 \times 10^2$  | $1 \times 10^9$  |
| Sodium (11)                             |                       |                       |  |  |
| Na-22                                   | $5 \times 10^{-1}$    | $5 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^6$  |
| Na-24                                   | $2 \times 10^{-1}$    | $2 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^5$  |
| Niobium (41)                            |                       |                       |  |  |
| Nb-93m                                  | $4 \times 10^1$       | $3 \times 10^1$       | $1 \times 10^4$  | $1 \times 10^7$  |
| Nb-94                                   | $7 \times 10^{-1}$    | $7 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^6$  |
| Nb-95                                   | $1 \times 10^0$       | $1 \times 10^0$       | $1 \times 10^1$  | $1 \times 10^6$  |
| Nb-97                                   | $9 \times 10^{-1}$    | $6 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^6$  |
| Neodymium (60)                          |                       |                       |  |  |
| Nd-147                                  | $6 \times 10^0$       | $6 \times 10^{-1}$    | $1 \times 10^2$  | $1 \times 10^6$  |
| Nd-149                                  | $6 \times 10^{-1}$    | $5 \times 10^{-1}$    | $1 \times 10^2$  | $1 \times 10^6$  |
| Nickel (28)                             |                       |                       |  |  |
| Ni-59                                   | Unlimited             | Unlimited             | $1 \times 10^4$  | $1 \times 10^8$  |
| Ni-63                                   | $4 \times 10^1$       | $3 \times 10^1$       | $1 \times 10^5$  | $1 \times 10^8$  |
| Ni-65                                   | $4 \times 10^{-1}$    | $4 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^6$  |
| Neptunium (93)                          |                       |                       |  |  |
| Np-235                                  | $4 \times 10^1$       | $4 \times 10^1$       | $1 \times 10^3$  | $1 \times 10^7$  |
| Np-236(short-lived)                     | $2 \times 10^1$       | $2 \times 10^0$       | $1 \times 10^3$  | $1 \times 10^7$  |
| Np-236(long-lived)                      | $9 \times 10^0$       | $2 \times 10^{-2}$    | $1 \times 10^2$  | $1 \times 10^5$  |
| Np-237                                  | $2 \times 10^1$       | $2 \times 10^{-3}$    | $1 \times 10^0$ (b)  | $1 \times 10^3$ (b)  |
| Np-239                                  | $7 \times 10^0$       | $4 \times 10^{-1}$    | $1 \times 10^2$  | $1 \times 10^7$  |
| Osmium (76)                             |                       |                       |  |  |
| Os-185                                  | $1 \times 10^0$       | $1 \times 10^0$       | $1 \times 10^1$  | $1 \times 10^6$  |
| Os-191                                  | $1 \times 10^1$       | $2 \times 10^0$       | $1 \times 10^2$  | $1 \times 10^7$  |
| Os-191m                                 | $4 \times 10^1$       | $3 \times 10^1$       | $1 \times 10^3$  | $1 \times 10^7$  |
| Os-193                                  | $2 \times 10^0$       | $6 \times 10^{-1}$    | $1 \times 10^2$  | $1 \times 10^6$  |
| Os-194 (a)                              | $3 \times 10^{-1}$    | $3 \times 10^{-1}$    | $1 \times 10^2$  | $1 \times 10^5$  |
| Phosphorus (15)                         |                       |                       |  |  |

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|---|-----------------------|-----------------------|--|--|
| P-32                                    | $5 \times 10^{-1}$    | $5 \times 10^{-1}$    | $1 \times 10^3$  | $1 \times 10^5$  |
| P-33                                    | $4 \times 10^1$       | $1 \times 10^0$       | $1 \times 10^5$  | $1 \times 10^8$  |
| Protactinium (91)                       |                       |                       |  |  |
| Pa-230 (a)                              | $2 \times 10^0$       | $7 \times 10^{-2}$    | $1 \times 10^1$  | $1 \times 10^6$  |
| Pa-231                                  | $4 \times 10^0$       | $4 \times 10^{-4}$    | $1 \times 10^0$  | $1 \times 10^3$  |
| Pa-233                                  | $5 \times 10^0$       | $7 \times 10^{-1}$    | $1 \times 10^2$  | $1 \times 10^7$  |
| Lead (82)                               |                       |                       |  |  |
| Pb-201                                  | $1 \times 10^0$       | $1 \times 10^0$       | $1 \times 10^1$  | $1 \times 10^6$  |
| Pb-202                                  | $4 \times 10^1$       | $2 \times 10^1$       | $1 \times 10^3$  | $1 \times 10^6$  |
| Pb-203                                  | $4 \times 10^0$       | $3 \times 10^0$       | $1 \times 10^2$  | $1 \times 10^6$  |
| Pb-205                                  | Unlimited             | Unlimited             | $1 \times 10^4$  | $1 \times 10^7$  |
| Pb-210 (a)                              | $1 \times 10^0$       | $5 \times 10^{-2}$    | $1 \times 10^1$ (b)  | $1 \times 10^4$ (b)  |
| Pb-212 (a)                              | $7 \times 10^{-1}$    | $2 \times 10^{-1}$    | $1 \times 10^1$ (b)  | $1 \times 10^5$ (b)  |
| Palladium (46)                          |                       |                       |  |  |
| Pd-103 (a)                              | $4 \times 10^1$       | $4 \times 10^1$       | $1 \times 10^3$  | $1 \times 10^8$  |
| Pd-107                                  | Unlimited             | Unlimited             | $1 \times 10^5$  | $1 \times 10^8$  |
| Pd-109                                  | $2 \times 10^0$       | $5 \times 10^{-1}$    | $1 \times 10^3$  | $1 \times 10^6$  |
| Promethium (61)                         |                       |                       |  |  |
| Pm-143                                  | $3 \times 10^0$       | $3 \times 10^0$       | $1 \times 10^2$  | $1 \times 10^6$  |
| Pm-144                                  | $7 \times 10^{-1}$    | $7 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^6$  |
| Pm-145                                  | $3 \times 10^1$       | $1 \times 10^1$       | $1 \times 10^3$  | $1 \times 10^7$  |
| Pm-147                                  | $4 \times 10^1$       | $2 \times 10^0$       | $1 \times 10^4$  | $1 \times 10^7$  |
| Pm-148m (a)                             | $8 \times 10^{-1}$    | $7 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^6$  |
| Pm-149                                  | $2 \times 10^0$       | $6 \times 10^{-1}$    | $1 \times 10^3$  | $1 \times 10^6$  |
| Pm-151                                  | $2 \times 10^0$       | $6 \times 10^{-1}$    | $1 \times 10^2$  | $1 \times 10^6$  |
| Polonium (84)                           |                       |                       |  |  |
| Po-210                                  | $4 \times 10^1$       | $2 \times 10^{-2}$    | $1 \times 10^1$  | $1 \times 10^4$  |
| Praseodymium (59)                       |                       |                       |  |  |
| Pr-142                                  | $4 \times 10^{-1}$    | $4 \times 10^{-1}$    | $1 \times 10^2$  | $1 \times 10^5$  |
| Pr-143                                  | $3 \times 10^0$       | $6 \times 10^{-1}$    | $1 \times 10^4$  | $1 \times 10^6$  |
| Platinum (78)                           |                       |                       |  |  |

| <b>Radionuclide<br/>(atomic number)</b> | <b><math>A_1</math><br/>(TBq)</b> | <b><math>A_2</math><br/>(TBq)</b> | <b>Activity<br/>concentration<br/>for exempt<br/>material<br/>(Bq/g)</b> | <b>Activity limit<br/>for an exempt<br/>consignment<br/>(Bq)</b> |
|---|-----------------------------------|-----------------------------------|--|--|
| Pt-188 (a)                              | $1 \times 10^0$                   | $8 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^6$  |
| Pt-191                                  | $4 \times 10^0$                   | $3 \times 10^0$                   | $1 \times 10^2$  | $1 \times 10^6$  |
| Pt-193                                  | $4 \times 10^1$                   | $4 \times 10^1$                   | $1 \times 10^4$  | $1 \times 10^7$  |
| Pt-193m                                 | $4 \times 10^1$                   | $5 \times 10^{-1}$                | $1 \times 10^3$  | $1 \times 10^7$  |
| Pt-195m                                 | $1 \times 10^1$                   | $5 \times 10^{-1}$                | $1 \times 10^2$  | $1 \times 10^6$  |
| Pt-197                                  | $2 \times 10^1$                   | $6 \times 10^{-1}$                | $1 \times 10^3$  | $1 \times 10^6$  |
| Pt-197m                                 | $1 \times 10^1$                   | $6 \times 10^{-1}$                | $1 \times 10^2$  | $1 \times 10^6$  |
| Plutonium (94)                          |                                   |                                   |  |  |
| Pu-236                                  | $3 \times 10^1$                   | $3 \times 10^{-3}$                | $1 \times 10^1$  | $1 \times 10^4$  |
| Pu-237                                  | $2 \times 10^1$                   | $2 \times 10^1$                   | $1 \times 10^3$  | $1 \times 10^7$  |
| Pu-238                                  | $1 \times 10^1$                   | $1 \times 10^{-3}$                | $1 \times 10^0$  | $1 \times 10^4$  |
| Pu-239                                  | $1 \times 10^1$                   | $1 \times 10^{-3}$                | $1 \times 10^0$  | $1 \times 10^4$  |
| Pu-240                                  | $1 \times 10^1$                   | $1 \times 10^{-3}$                | $1 \times 10^0$  | $1 \times 10^3$  |
| Pu-241 (a)                              | $4 \times 10^1$                   | $6 \times 10^{-2}$                | $1 \times 10^2$  | $1 \times 10^5$  |
| Pu-242                                  | $1 \times 10^1$                   | $1 \times 10^{-3}$                | $1 \times 10^0$  | $1 \times 10^4$  |
| Pu-244 (a)                              | $4 \times 10^{-1}$                | $1 \times 10^{-3}$                | $1 \times 10^0$  | $1 \times 10^4$  |
| Radium (88)                             |                                   |                                   |  |  |
| Ra-223 (a)                              | $4 \times 10^{-1}$                | $7 \times 10^{-3}$                | $1 \times 10^2$ (b)  | $1 \times 10^5$ (b)  |
| Ra-224 (a)                              | $4 \times 10^{-1}$                | $2 \times 10^{-2}$                | $1 \times 10^1$ (b)  | $1 \times 10^5$ (b)  |
| Ra-225 (a)                              | $2 \times 10^{-1}$                | $4 \times 10^{-3}$                | $1 \times 10^2$  | $1 \times 10^5$  |
| Ra-226 (a)                              | $2 \times 10^{-1}$                | $3 \times 10^{-3}$                | $1 \times 10^1$ (b)  | $1 \times 10^4$ (b)  |
| Ra-228 (a)                              | $6 \times 10^{-1}$                | $2 \times 10^{-2}$                | $1 \times 10^1$ (b)  | $1 \times 10^5$ (b)  |
| Rubidium (37)                           |                                   |                                   |  |  |
| Rb-81                                   | $2 \times 10^0$                   | $8 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^6$  |
| Rb-83 (a)                               | $2 \times 10^0$                   | $2 \times 10^0$                   | $1 \times 10^2$  | $1 \times 10^6$  |
| Rb-84                                   | $1 \times 10^0$                   | $1 \times 10^0$                   | $1 \times 10^1$  | $1 \times 10^6$  |
| Rb-86                                   | $5 \times 10^{-1}$                | $5 \times 10^{-1}$                | $1 \times 10^2$  | $1 \times 10^5$  |
| Rb-87                                   | Unlimited                         | Unlimited                         | $1 \times 10^4$  | $1 \times 10^7$  |
| Rb(nat)                                 | Unlimited                         | Unlimited                         | $1 \times 10^4$  | $1 \times 10^7$  |
| Rhenium (75)                            |                                   |                                   |  |  |
| Re-184                                  | $1 \times 10^0$                   | $1 \times 10^0$                   | $1 \times 10^1$  | $1 \times 10^6$  |

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|---|-----------------------|-----------------------|--|--|
| Re-184m                                 | $3 \times 10^0$       | $1 \times 10^0$       | $1 \times 10^2$  | $1 \times 10^6$  |
| Re-186                                  | $2 \times 10^0$       | $6 \times 10^{-1}$    | $1 \times 10^3$  | $1 \times 10^6$  |
| Re-187                                  | Unlimited             | Unlimited             | $1 \times 10^6$  | $1 \times 10^9$  |
| Re-188                                  | $4 \times 10^{-1}$    | $4 \times 10^{-1}$    | $1 \times 10^2$  | $1 \times 10^5$  |
| Re-189 (a)                              | $3 \times 10^0$       | $6 \times 10^{-1}$    | $1 \times 10^2$  | $1 \times 10^6$  |
| Re(nat)                                 | Unlimited             | Unlimited             | $1 \times 10^6$  | $1 \times 10^9$  |
| Rhodium (45)                            |                       |                       |  |  |
| Rh-99                                   | $2 \times 10^0$       | $2 \times 10^0$       | $1 \times 10^1$  | $1 \times 10^6$  |
| Rh-101                                  | $4 \times 10^0$       | $3 \times 10^0$       | $1 \times 10^2$  | $1 \times 10^7$  |
| Rh-102                                  | $5 \times 10^{-1}$    | $5 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^6$  |
| Rh-102m                                 | $2 \times 10^0$       | $2 \times 10^0$       | $1 \times 10^2$  | $1 \times 10^6$  |
| Rh-103m                                 | $4 \times 10^1$       | $4 \times 10^1$       | $1 \times 10^4$  | $1 \times 10^8$  |
| Rh-105                                  | $1 \times 10^1$       | $8 \times 10^{-1}$    | $1 \times 10^2$  | $1 \times 10^7$  |
| Radon (86)                              |                       |                       |  |  |
| Rn-222 (a)                              | $3 \times 10^{-1}$    | $4 \times 10^{-3}$    | $1 \times 10^1$ (b)  | $1 \times 10^8$ (b)  |
| Ruthenium (44)                          |                       |                       |  |  |
| Ru-97                                   | $5 \times 10^0$       | $5 \times 10^0$       | $1 \times 10^2$  | $1 \times 10^7$  |
| Ru-103 (a)                              | $2 \times 10^0$       | $2 \times 10^0$       | $1 \times 10^2$  | $1 \times 10^6$  |
| Ru-105                                  | $1 \times 10^0$       | $6 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^6$  |
| Ru-106 (a)                              | $2 \times 10^{-1}$    | $2 \times 10^{-1}$    | $1 \times 10^2$ (b)  | $1 \times 10^5$ (b)  |
| Sulphur (16)                            |                       |                       |  |  |
| S-35                                    | $4 \times 10^1$       | $3 \times 10^0$       | $1 \times 10^5$  | $1 \times 10^8$  |
| Antimony (51)                           |                       |                       |  |  |
| Sb-122                                  | $4 \times 10^{-1}$    | $4 \times 10^{-1}$    | $1 \times 10^2$  | $1 \times 10^4$  |
| Sb-124                                  | $6 \times 10^{-1}$    | $6 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^6$  |
| Sb-125                                  | $2 \times 10^0$       | $1 \times 10^0$       | $1 \times 10^2$  | $1 \times 10^6$  |
| Sb-126                                  | $4 \times 10^{-1}$    | $4 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^5$  |
| Scandium (21)                           |                       |                       |  |  |
| Sc-44                                   | $5 \times 10^{-1}$    | $5 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^5$  |
| Sc-46                                   | $5 \times 10^{-1}$    | $5 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^6$  |
| Sc-47                                   | $1 \times 10^1$       | $7 \times 10^{-1}$    | $1 \times 10^2$  | $1 \times 10^6$  |

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|---|-----------------------------------|-----------------------------------|--|--|
| Sc-48                                   | $3 \times 10^{-1}$                | $3 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^5$  |
| Selenium (34)                           |                                   |                                   |  |  |
| Se-75                                   | $3 \times 10^0$                   | $3 \times 10^0$                   | $1 \times 10^2$  | $1 \times 10^6$  |
| Se-79                                   | $4 \times 10^1$                   | $2 \times 10^0$                   | $1 \times 10^4$  | $1 \times 10^7$  |
| Silicon (14)                            |                                   |                                   |  |  |
| Si-31                                   | $6 \times 10^{-1}$                | $6 \times 10^{-1}$                | $1 \times 10^3$  | $1 \times 10^6$  |
| Si-32                                   | $4 \times 10^1$                   | $5 \times 10^{-1}$                | $1 \times 10^3$  | $1 \times 10^6$  |
| Samarium (62)                           |                                   |                                   |  |  |
| Sm-145                                  | $1 \times 10^1$                   | $1 \times 10^1$                   | $1 \times 10^2$  | $1 \times 10^7$  |
| Sm-147                                  | Unlimited                         | Unlimited                         | $1 \times 10^1$  | $1 \times 10^4$  |
| Sm-151                                  | $4 \times 10^1$                   | $1 \times 10^1$                   | $1 \times 10^4$  | $1 \times 10^8$  |
| Sm-153                                  | $9 \times 10^0$                   | $6 \times 10^{-1}$                | $1 \times 10^2$  | $1 \times 10^6$  |
| Tin (50)                                |                                   |                                   |  |  |
| Sn-113 (a)                              | $4 \times 10^0$                   | $2 \times 10^0$                   | $1 \times 10^3$  | $1 \times 10^7$  |
| Sn-117m                                 | $7 \times 10^0$                   | $4 \times 10^{-1}$                | $1 \times 10^2$  | $1 \times 10^6$  |
| Sn-119m                                 | $4 \times 10^1$                   | $3 \times 10^1$                   | $1 \times 10^3$  | $1 \times 10^7$  |
| Sn-121m (a)                             | $4 \times 10^1$                   | $9 \times 10^{-1}$                | $1 \times 10^3$  | $1 \times 10^7$  |
| Sn-123                                  | $8 \times 10^{-1}$                | $6 \times 10^{-1}$                | $1 \times 10^3$  | $1 \times 10^6$  |
| Sn-125                                  | $4 \times 10^{-1}$                | $4 \times 10^{-1}$                | $1 \times 10^2$  | $1 \times 10^5$  |
| Sn-126 (a)                              | $6 \times 10^{-1}$                | $4 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^5$  |
| Strontium (38)                          |                                   |                                   |  |  |
| Sr-82 (a)                               | $2 \times 10^{-1}$                | $2 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^5$  |
| Sr-85                                   | $2 \times 10^0$                   | $2 \times 10^0$                   | $1 \times 10^2$  | $1 \times 10^6$  |
| Sr-85m                                  | $5 \times 10^0$                   | $5 \times 10^0$                   | $1 \times 10^2$  | $1 \times 10^7$  |
| Sr-87m                                  | $3 \times 10^0$                   | $3 \times 10^0$                   | $1 \times 10^2$  | $1 \times 10^6$  |
| Sr-89                                   | $6 \times 10^{-1}$                | $6 \times 10^{-1}$                | $1 \times 10^3$  | $1 \times 10^6$  |
| Sr-90 (a)                               | $3 \times 10^{-1}$                | $3 \times 10^{-1}$                | $1 \times 10^2$ (b)  | $1 \times 10^4$ (b)  |
| Sr-91 (a)                               | $3 \times 10^{-1}$                | $3 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^5$  |
| Sr-92 (a)                               | $1 \times 10^0$                   | $3 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^6$  |
| Tritium (1)                             |                                   |                                   |  |  |
| T(H-3)                                  | $4 \times 10^1$                   | $4 \times 10^1$                   | $1 \times 10^6$  | $1 \times 10^9$  |



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|---|-----------------------|-----------------------|--|--|
| Tantalum (73)                           |                       |                       |  |  |
| Ta-178(long-lived)                      | $1 \times 10^0$       | $8 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^6$  |
| Ta-179                                  | $3 \times 10^1$       | $3 \times 10^1$       | $1 \times 10^3$  | $1 \times 10^7$  |
| Ta-182                                  | $9 \times 10^{-1}$    | $5 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^4$  |
| Terbium (65)                            |                       |                       |  |  |
| Tb-157                                  | $4 \times 10^1$       | $4 \times 10^1$       | $1 \times 10^4$  | $1 \times 10^7$  |
| Tb-158                                  | $1 \times 10^0$       | $1 \times 10^0$       | $1 \times 10^1$  | $1 \times 10^6$  |
| Tb-160                                  | $1 \times 10^0$       | $6 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^6$  |
| Technetium (43)                         |                       |                       |  |  |
| Tc-95m (a)                              | $2 \times 10^0$       | $2 \times 10^0$       | $1 \times 10^1$  | $1 \times 10^6$  |
| Tc-96                                   | $4 \times 10^{-1}$    | $4 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^6$  |
| Tc-96m (a)                              | $4 \times 10^{-1}$    | $4 \times 10^{-1}$    | $1 \times 10^3$  | $1 \times 10^7$  |
| Tc-97                                   | Unlimited             | Unlimited             | $1 \times 10^3$  | $1 \times 10^8$  |
| Tc-97m                                  | $4 \times 10^1$       | $1 \times 10^0$       | $1 \times 10^3$  | $1 \times 10^7$  |
| Tc-98                                   | $8 \times 10^{-1}$    | $7 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^6$  |
| Tc-99                                   | $4 \times 10^1$       | $9 \times 10^{-1}$    | $1 \times 10^4$  | $1 \times 10^7$  |
| Tc-99m                                  | $1 \times 10^1$       | $4 \times 10^0$       | $1 \times 10^2$  | $1 \times 10^7$  |
| Tellurium (52)                          |                       |                       |  |  |
| Te-121                                  | $2 \times 10^0$       | $2 \times 10^0$       | $1 \times 10^1$  | $1 \times 10^6$  |
| Te-121m                                 | $5 \times 10^0$       | $3 \times 10^0$       | $1 \times 10^2$  | $1 \times 10^6$  |
| Te-123m                                 | $8 \times 10^0$       | $1 \times 10^0$       | $1 \times 10^2$  | $1 \times 10^7$  |
| Te-125m                                 | $2 \times 10^1$       | $9 \times 10^{-1}$    | $1 \times 10^3$  | $1 \times 10^7$  |
| Te-127                                  | $2 \times 10^1$       | $7 \times 10^{-1}$    | $1 \times 10^3$  | $1 \times 10^6$  |
| Te-127m (a)                             | $2 \times 10^1$       | $5 \times 10^{-1}$    | $1 \times 10^3$  | $1 \times 10^7$  |
| Te-129                                  | $7 \times 10^{-1}$    | $6 \times 10^{-1}$    | $1 \times 10^2$  | $1 \times 10^6$  |
| Te-129m (a)                             | $8 \times 10^{-1}$    | $4 \times 10^{-1}$    | $1 \times 10^3$  | $1 \times 10^6$  |
| Te-131m (a)                             | $7 \times 10^{-1}$    | $5 \times 10^{-1}$    | $1 \times 10^1$  | $1 \times 10^6$  |
| Te-132 (a)                              | $5 \times 10^{-1}$    | $4 \times 10^{-1}$    | $1 \times 10^2$  | $1 \times 10^7$  |
| Thorium (90)                            |                       |                       |  |  |
| Th-227                                  | $1 \times 10^1$       | $5 \times 10^{-3}$    | $1 \times 10^1$  | $1 \times 10^4$  |
| Th-228 (a)                              | $5 \times 10^{-1}$    | $1 \times 10^{-3}$    | $1 \times 10^0$ (b)  | $1 \times 10^4$ (b)  |

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|---|-----------------------------------|-----------------------------------|--|--|
| Th-229                                  | $5 \times 10^0$                   | $5 \times 10^{-4}$                | $1 \times 10^0$ (b)  | $1 \times 10^3$ (b)  |
| Th-230                                  | $1 \times 10^1$                   | $1 \times 10^{-3}$                | $1 \times 10^0$  | $1 \times 10^4$  |
| Th-231                                  | $4 \times 10^1$                   | $2 \times 10^{-2}$                | $1 \times 10^3$  | $1 \times 10^7$  |
| Th-232                                  | Unlimited                         | Unlimited                         | $1 \times 10^1$  | $1 \times 10^4$  |
| Th-234 (a)                              | $3 \times 10^{-1}$                | $3 \times 10^{-1}$                | $1 \times 10^3$ (b)  | $1 \times 10^5$ (b)  |
| Th(nat)                                 | Unlimited                         | Unlimited                         | $1 \times 10^0$ (b)  | $1 \times 10^3$ (b)  |
| Titanium (22)                           |                                   |                                   |  |  |
| Ti-44 (a)                               | $5 \times 10^{-1}$                | $4 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^5$  |
| Thallium (81)                           |                                   |                                   |  |  |
| Tl-200                                  | $9 \times 10^{-1}$                | $9 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^6$  |
| Tl-201                                  | $1 \times 10^1$                   | $4 \times 10^0$                   | $1 \times 10^2$  | $1 \times 10^6$  |
| Tl-202                                  | $2 \times 10^0$                   | $2 \times 10^0$                   | $1 \times 10^2$  | $1 \times 10^6$  |
| Tl-204                                  | $1 \times 10^1$                   | $7 \times 10^{-1}$                | $1 \times 10^4$  | $1 \times 10^4$  |
| Thulium (69)                            |                                   |                                   |  |  |
| Tm-167                                  | $7 \times 10^0$                   | $8 \times 10^{-1}$                | $1 \times 10^2$  | $1 \times 10^6$  |
| Tm-170                                  | $3 \times 10^0$                   | $6 \times 10^{-1}$                | $1 \times 10^3$  | $1 \times 10^6$  |
| Tm-171                                  | $4 \times 10^1$                   | $4 \times 10^1$                   | $1 \times 10^4$  | $1 \times 10^8$  |
| Uranium (92)                            |                                   |                                   |  |  |
| U-230 (fast lung absorption) (a)(d)     | $4 \times 10^1$                   | $1 \times 10^{-1}$                | $1 \times 10^1$ (b)  | $1 \times 10^5$ (b)  |
| U-230 (medium lung absorption) (a)(e)   | $4 \times 10^1$                   | $4 \times 10^{-3}$                | $1 \times 10^1$  | $1 \times 10^4$  |
| U-230 (slow lung absorption) (a)(f)     | $3 \times 10^1$                   | $3 \times 10^{-3}$                | $1 \times 10^1$  | $1 \times 10^4$  |
| U-232 (fast lung absorption) (d)        | $4 \times 10^1$                   | $1 \times 10^{-2}$                | $1 \times 10^0$ (b)  | $1 \times 10^3$ (b)  |
| U-232 (medium lung absorption) (e)      | $4 \times 10^1$                   | $7 \times 10^{-3}$                | $1 \times 10^1$  | $1 \times 10^4$  |
| U-232 (slow lung absorption) (f)        | $1 \times 10^1$                   | $1 \times 10^{-3}$                | $1 \times 10^1$  | $1 \times 10^4$  |
| U-233 (fast lung absorption) (d)        | $4 \times 10^1$                   | $9 \times 10^{-2}$                | $1 \times 10^1$  | $1 \times 10^4$  |
| U-233 (medium lung absorption) (e)      | $4 \times 10^1$                   | $2 \times 10^{-2}$                | $1 \times 10^2$  | $1 \times 10^5$  |
| U-233 (slow lung absorption) (f)        | $4 \times 10^1$                   | $6 \times 10^{-3}$                | $1 \times 10^1$  | $1 \times 10^5$  |
| U-234 (fast lung absorption) (d)        | $4 \times 10^1$                   | $9 \times 10^{-2}$                | $1 \times 10^1$  | $1 \times 10^4$  |
| U-234 (medium lung absorption) (e)      | $4 \times 10^1$                   | $2 \times 10^{-2}$                | $1 \times 10^2$  | $1 \times 10^5$  |
| U-234 (slow lung absorption) (f)        | $4 \times 10^1$                   | $6 \times 10^{-3}$                | $1 \times 10^1$  | $1 \times 10^5$  |
| U-235 (all lung absorption types)       | Unlimited                         | Unlimited                         | $1 \times 10^1$ (b)  | $1 \times 10^4$ (b)  |

| <b>Radionuclide<br/>(atomic number)</b>        | <b><math>A_1</math><br/>(TBq)</b> | <b><math>A_2</math><br/>(TBq)</b> | <b>Activity<br/>concentration<br/>for exempt<br/>material<br/>(Bq/g)</b> | <b>Activity limit<br/>for an exempt<br/>consignment<br/>(Bq)</b> |
|--|-----------------------------------|-----------------------------------|--|--|
| (a)(d)(e)(f)                                   |                                   |                                   |  |  |
| U-236 (fast lung absorption) (d)               | Unlimited                         | Unlimited                         | $1 \times 10^1$  | $1 \times 10^4$  |
| U-236 (medium lung absorption) (e)             | $4 \times 10^1$                   | $2 \times 10^{-2}$                | $1 \times 10^2$  | $1 \times 10^5$  |
| U-236 (slow lung absorption) (f)               | $4 \times 10^1$                   | $6 \times 10^{-3}$                | $1 \times 10^1$  | $1 \times 10^4$  |
| U-238 (all lung absorption types)<br>(d)(e)(f) | Unlimited                         | Unlimited                         | $1 \times 10^1$ (b)  | $1 \times 10^4$ (b)  |
| U (nat)  | Unlimited                         | Unlimited                         | $1 \times 10^0$ (b)  | $1 \times 10^3$ (b)  |
| U (enriched to 20% or less) (g)                | Unlimited                         | Unlimited                         | $1 \times 10^0$  | $1 \times 10^3$  |
| U (dep)  | Unlimited                         | Unlimited                         | $1 \times 10^0$  | $1 \times 10^3$  |
| Vanadium (23)                                  |                                   |                                   |  |  |
| V-48   | $4 \times 10^{-1}$                | $4 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^5$  |
| V-49   | $4 \times 10^1$                   | $4 \times 10^1$                   | $1 \times 10^4$  | $1 \times 10^7$  |
| Tungsten (74)                                  |                                   |                                   |  |  |
| W-178 (a)                                      | $9 \times 10^0$                   | $5 \times 10^0$                   | $1 \times 10^1$  | $1 \times 10^6$  |
| W-181  | $3 \times 10^1$                   | $3 \times 10^1$                   | $1 \times 10^3$  | $1 \times 10^7$  |
| W-185  | $4 \times 10^1$                   | $8 \times 10^{-1}$                | $1 \times 10^4$  | $1 \times 10^7$  |
| W-187  | $2 \times 10^0$                   | $6 \times 10^{-1}$                | $1 \times 10^2$  | $1 \times 10^6$  |
| W-188 (a)                                      | $4 \times 10^{-1}$                | $3 \times 10^{-1}$                | $1 \times 10^2$  | $1 \times 10^5$  |
| Xenon (54)                                     |                                   |                                   |  |  |
| Xe-122 (a)                                     | $4 \times 10^{-1}$                | $4 \times 10^{-1}$                | $1 \times 10^2$  | $1 \times 10^9$  |
| Xe-123   | $2 \times 10^0$                   | $7 \times 10^{-1}$                | $1 \times 10^2$  | $1 \times 10^9$  |
| Xe-127   | $4 \times 10^0$                   | $2 \times 10^0$                   | $1 \times 10^3$  | $1 \times 10^5$  |
| Xe-131m  | $4 \times 10^1$                   | $4 \times 10^1$                   | $1 \times 10^4$  | $1 \times 10^4$  |
| Xe-133   | $2 \times 10^1$                   | $1 \times 10^1$                   | $1 \times 10^3$  | $1 \times 10^4$  |
| Xe-135   | $3 \times 10^0$                   | $2 \times 10^0$                   | $1 \times 10^3$  | $1 \times 10^{10}$   |
| Yttrium (39)                                   |                                   |                                   |  |  |
| Y-87 (a)                                       | $1 \times 10^0$                   | $1 \times 10^0$                   | $1 \times 10^1$  | $1 \times 10^6$  |
| Y-88   | $4 \times 10^{-1}$                | $4 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^6$  |
| Y-90   | $3 \times 10^{-1}$                | $3 \times 10^{-1}$                | $1 \times 10^3$  | $1 \times 10^5$  |
| Y-91   | $6 \times 10^{-1}$                | $6 \times 10^{-1}$                | $1 \times 10^3$  | $1 \times 10^6$  |
| Y-91m  | $2 \times 10^0$                   | $2 \times 10^0$                   | $1 \times 10^2$  | $1 \times 10^6$  |

| <b>Radionuclide<br/>(atomic number)</b> | <b><math>A_1</math><br/>(TBq)</b> | <b><math>A_2</math><br/>(TBq)</b> | <b>Activity<br/>concentration<br/>for exempt<br/>material<br/>(Bq/g)</b> | <b>Activity limit<br/>for an exempt<br/>consignment<br/>(Bq)</b> |
|---|-----------------------------------|-----------------------------------|--|--|
| Y-92                                    | $2 \times 10^{-1}$                | $2 \times 10^{-1}$                | $1 \times 10^2$  | $1 \times 10^5$  |
| Y-93                                    | $3 \times 10^{-1}$                | $3 \times 10^{-1}$                | $1 \times 10^2$  | $1 \times 10^5$  |
| Ytterbium (70)                          |                                   |                                   |  |  |
| Yb-169                                  | $4 \times 10^0$                   | $1 \times 10^0$                   | $1 \times 10^2$  | $1 \times 10^7$  |
| Yb-175                                  | $3 \times 10^1$                   | $9 \times 10^{-1}$                | $1 \times 10^3$  | $1 \times 10^7$  |
| Zinc (30)                               |                                   |                                   |  |  |
| Zn-65                                   | $2 \times 10^0$                   | $2 \times 10^0$                   | $1 \times 10^1$  | $1 \times 10^6$  |
| Zn-69                                   | $3 \times 10^0$                   | $6 \times 10^{-1}$                | $1 \times 10^4$  | $1 \times 10^6$  |
| Zn-69m (a)                              | $3 \times 10^0$                   | $6 \times 10^{-1}$                | $1 \times 10^2$  | $1 \times 10^6$  |
| Zirconium (40)                          |                                   |                                   |  |  |
| Zr-88                                   | $3 \times 10^0$                   | $3 \times 10^0$                   | $1 \times 10^2$  | $1 \times 10^6$  |
| Zr-93                                   | Unlimited                         | Unlimited                         | $1 \times 10^3$ (b)  | $1 \times 10^7$ (b)  |
| Zr-95 (a)                               | $2 \times 10^0$                   | $8 \times 10^{-1}$                | $1 \times 10^1$  | $1 \times 10^6$  |
| Zr-97 (a)                               | $4 \times 10^{-1}$                | $4 \times 10^{-1}$                | $1 \times 10^1$ (b)  | $1 \times 10^5$ (b)  |

(a)  $A_1$  and/or  $A_2$  values for these parent radionuclides include contributions from daughter radionuclides with half-lives less than 10 days, as listed in the following:

|         |               |
|---------|---------------|
| Mg-28   | Al-28         |
| Ar-42   | K-42          |
| Ca-47   | Sc-47         |
| Ti-44   | Sc-44         |
| Fe-52   | Mn-52m        |
| Fe-60   | Co-60m        |
| Zn-69m  | Zn-69         |
| Ge-68   | Ga-68         |
| Rb-83   | Kr-83m        |
| Sr-82   | Rb-82         |
| Sr-90   | Y-90          |
| Sr-91   | Y-91m         |
| Sr-92   | Y-92          |
| Y-87    | Sr-87m        |
| Zr-95   | Nb-95m        |
| Zr-97   | Nb-97m, Nb-97 |
| Mo-99   | Tc-99m        |
| Tc-95m  | Tc-95         |
| Tc-96m  | Tc-96         |
| Ru-103  | Rh-103m       |
| Ru-106  | Rh-106        |
| Pd-103  | Rh-103m       |
| Ag-108m | Ag-108        |
| Ag-110m | Ag-110        |

|         |  |
|---------|--|
| Cd-115  | In-115m  |
| In-114m | In-114   |
| Sn-113  | In-113m  |
| Sn-121m | Sn-121   |
| Sn-126  | Sb-126m  |
| Te-118  | Sb-118   |
| Te-127m | Te-127   |
| Te-129m | Te-129   |
| Te-131m | Te-131   |
| Te-132  | I-132  |
| I-135   | Xe-135m  |
| Xe-122  | I-122  |
| Cs-137  | Ba-137m  |
| Ba-131  | Cs-131   |
| Ba-140  | La-140   |
| Ce-144  | Pr-144m, Pr-144  |
| Pm-148m | Pm-148   |
| Gd-146  | Eu-146   |
| Dy-166  | Ho-166   |
| Hf-172  | Lu-172   |
| W-178   | Ta-178   |
| W-188   | Re-188   |
| Re-189  | Os-189m  |
| Os-194  | Ir-194   |
| Ir-189  | Os-189m  |
| Pt-188  | Ir-188   |
| Hg-194  | Au-194   |
| Hg-195m | Hg-195   |
| Pb-210  | Bi-210   |
| Pb-212  | Bi-212, Tl-208, Po-212                                 |
| Bi-210m | Tl-206   |
| Bi-212  | Tl-208, Po-212   |
| At-211  | Po-211   |
| Rn-222  | Po-218, Pb-214, At-218, Bi-214, Po-214                 |
| Ra-223  | Rn-219, Po-215, Pb-211, Bi-211, Po-211, Tl-207         |
| Ra-224  | Rn-220, Po-216, Pb-212, Bi-212, Tl-208, Po-212         |
| Ra-225  | Ac-225, Fr-221, At-217, Bi-213, Tl-209, Po-213, Pb-209 |
| Ra-226  | Rn-222, Po-218, Pb-214, At-218, Bi-214, Po-214         |
| Ra-228  | Ac-228   |
| Ac-225  | Fr-221, At-217, Bi-213, Tl-209, Po-213, Pb-209         |
| Ac-227  | Fr-223   |
| Th-228  | Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Tl-208, Po-212 |
| Th-234  | Pa-234m, Pa-234  |
| Pa-230  | Ac-226, Th-226, Fr-222, Ra-222, Rn-218, Po-214         |
| U-230   | Th-226, Ra-222, Rn-218, Po-214                         |
| U-235   | Th-231   |
| Pu-241  | U-237  |
| Pu-244  | U-240, Np-240m   |
| Am-242m | Am-242, Np-238   |
| Am-243  | Np-239   |
| Cm-247  | Pu-243   |
| Bk-249  | Am-245   |
| Cf-253  | Cm-249   |

- (b) Parent nuclides and their progeny included in secular equilibrium are listed in the following:

|         |  |
|---------|--|
| Sr-90   | Y-90   |
| Zr-93   | Nb-93m   |
| Zr-97   | Nb-97  |
| Ru-106  | Rh-106   |
| Ag-108m | Ag-108   |
| Cs-137  | Ba-137m  |
| Ce-144  | Pr-144   |
| Ba-140  | La-140   |
| Bi-212  | Tl-208 (0.36), Po-212 (0.64)   |
| Pb-210  | Bi-210, Po-210   |
| Pb-212  | Bi-212, Tl-208 (0.36), Po-212 (0.64)   |
| Rn-222  | Po-218, Pb-214, Bi-214, Po-214   |
| Ra-223  | Rn-219, Po-215, Pb-211, Bi-211, Tl-207   |
| Ra-224  | Rn-220, Po-216, Pb-212, Bi-212, Tl-208 (0.36), Po-212 (0.64)   |
| Ra-226  | Rn-222, Po-218, Pb-214, Bi-214, Po-214, Pb-210, Bi-210, Po-210   |
| Ra-228  | Ac-228   |
| Th-228  | Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Tl-208 (0.36), Po-212 (0.64)                                   |
| Th-229  | Ra-225, Ac-225, Fr-221, At-217, Bi-213, Po-213, Pb-209   |
| Th-nat  | Ra-228, Ac-228, Th-228, Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Tl-208 (0.36), Po-212 (0.64)           |
| Th-234  | Pa-234m  |
| U-230   | Th-226, Ra-222, Rn-218, Po-214   |
| U-232   | Th-228, Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Tl-208 (0.36), Po-212 (0.64)                           |
| U-235   | Th-231   |
| U-238   | Th-234, Pa-234m  |
| U-nat   | Th-234, Pa-234m, U-234, Th-230, Ra-226, Rn-222, Po-218, Pb-214, Bi-214, Po-214, Pb-210, Bi-210, Po-210 |
|         | Np-237 Pa-233  |
| Am-242m | Am-242   |
| Am-243  | Np-239   |

- (c) The quantity may be determined from a measurement of the rate of decay or a measurement of the radiation level at a prescribed distance from the source.
- (d) These values apply only to compounds of uranium that take the chemical form of  $UF_6$ ,  $UO_2F_2$  and  $UO_2(NO_3)_2$  in both normal and accident conditions of carriage.
- (e) These values apply only to compounds of uranium that take the chemical form of  $UO_3$ ,  $UF_4$ ,  $UCl_4$  and hexavalent compounds in both normal and accident conditions of carriage.
- (f) These values apply to all compounds of uranium other than those specified in (d) and (e) above.
- (g) These values apply to unirradiated uranium only.

#### 2.2.7.2.2.2

For individual radionuclides which are not listed in Table 2.2.7.2.2.1 the determination of the basic radionuclide values referred to in 2.2.7.2.2.1 shall require multilateral approval. It is permissible to use an  $A_2$  value calculated using a dose coefficient for the appropriate lung absorption type as recommended by the International Commission on Radiological Protection, if the chemical forms of each radionuclide under both normal and accident conditions of carriage are taken into consideration. Alternatively, the radionuclide values in Table 2.2.7.2.2.2 may be used without obtaining competent authority approval.

**Table 2.2.7.2.2.2: Basic radionuclide values for unknown radionuclides or mixtures**

| Radioactive contents  | A <sub>1</sub> | A <sub>2</sub>     | Activity concentration for exempt material | Activity limit for exempt consignments |
|---|----------------|--------------------|--|--|
|   | (TBq)          | (TBq)              | (Bq/g)                                     | (Bq)                                   |
| Only beta or gamma emitting nuclides are known to be present                        | 0.1            | 0.02               | $1 \times 10^1$                            | $1 \times 10^4$                        |
| Alpha emitting nuclides but no neutron emitters are known to be present             | 0.2            | $9 \times 10^{-5}$ | $1 \times 10^{-1}$                         | $1 \times 10^3$                        |
| Neutron emitting nuclides are known to be present or no relevant data are available | 0.001          | $9 \times 10^{-5}$ | $1 \times 10^{-1}$                         | $1 \times 10^3$                        |

2.2.7.2.2.3 In the calculations of A<sub>1</sub> and A<sub>2</sub> for a radionuclide not in Table 2.2.7.2.2.1, a single radioactive decay chain in which the radionuclides are present in their naturally occurring proportions, and in which no daughter nuclide has a half-life either longer than 10 days or longer than that of the parent nuclide, shall be considered as a single radionuclide; and the activity to be taken into account and the A<sub>1</sub> or A<sub>2</sub> value to be applied shall be those corresponding to the parent nuclide of that chain. In the case of radioactive decay chains in which any daughter nuclide has a half-life either longer than 10 days or greater than that of the parent nuclide, the parent and such daughter nuclides shall be considered as mixtures of different nuclides.

2.2.7.2.2.4 For mixtures of radionuclides, the determination of the basic radionuclide values referred to in 2.2.7.2.2.1 may be determined as follows:

$$X_m = \frac{1}{\sum_i \frac{f(i)}{X(i)}}$$

where,

f(i) is the fraction of activity or activity concentration of radionuclide i in the mixture;

X(i) is the appropriate value of A<sub>1</sub> or A<sub>2</sub>, or the activity concentration for exempt material or the activity limit for an exempt consignment as appropriate for the radionuclide i; and

X<sub>m</sub> is the derived value of A<sub>1</sub> or A<sub>2</sub>, or the activity concentration for exempt material or the activity limit for an exempt consignment in the case of a mixture.

2.2.7.2.2.5 When the identity of each radionuclide is known but the individual activities of some of the radionuclides are not known, the radionuclides may be grouped and the lowest radionuclide value, as appropriate, for the radionuclides in each group may be used in applying the formulas in 2.2.7.2.2.4 and 2.2.7.2.4.4. Groups may be based on the total alpha activity and the total beta/gamma activity when these are known, using the lowest radionuclide values for the alpha emitters or beta/gamma emitters, respectively.

2.2.7.2.2.6 For individual radionuclides or for mixtures of radionuclides for which relevant data are not available, the values shown in Table 2.2.7.2.2.2 shall be used.

### 2.2.7.2.3 *Determination of other material characteristics*

#### 2.2.7.2.3.1 Low specific activity (LSA) material

##### 2.2.7.2.3.1.1 *(Reserved)*

2.2.7.2.3.1.2 LSA material shall be in one of three groups:

##### (a) LSA-I

- (i) uranium and thorium ores and concentrates of such ores, and other ores containing naturally occurring radionuclides which are intended to be processed for the use of these radionuclides;
- (ii) natural uranium, depleted uranium, natural thorium or their compounds or mixtures, providing they are unirradiated and in solid or liquid form;
- (iii) radioactive material for which the A<sub>2</sub> value is unlimited, excluding material classified as fissile according to 2.2.7.2.3.5; or
- (iv) other radioactive material in which the activity is distributed throughout and the estimated average specific activity does not exceed 30 times the values for activity concentration specified in 2.2.7.2.2.1 to 2.2.7.2.2.6, excluding material classified as fissile according to 2.2.7.2.3.5;

##### (b) LSA-II



- (i) water with tritium concentration up to 0.8 TBq/l; or
  - (ii) other material in which the activity is distributed throughout and the estimated average specific activity does not exceed  $10^{-4}$  A<sub>2</sub>/g for solids and gases, and  $10^{-5}$  A<sub>2</sub>/g for liquids;
- (c) LSA-III - Solids (e.g. consolidated wastes, activated materials), excluding powders, in which:
- (i) the radioactive material is distributed throughout a solid or a collection of solid objects, or is essentially uniformly distributed in a solid compact binding agent (such as concrete, bitumen, ceramic, etc.);
  - (ii) the radioactive material is relatively insoluble, or it is intrinsically contained in a relatively insoluble matrix, so that, even under loss of packaging, the loss of radioactive material per package by leaching when placed in water for seven days would not exceed 0.1 A<sub>2</sub>; and
  - (iii) the estimated average specific activity of the solid, excluding any shielding material, does not exceed  $2 \times 10^{-3}$  A<sub>2</sub>/g.

2.2.7.2.3.1.3 LSA-III material shall be a solid of such a nature that if the entire contents of a package were subjected to the test specified in 2.2.7.2.3.1.4 the activity in the water would not exceed 0.1 A<sub>2</sub>.

2.2.7.2.3.1.4 LSA-III material shall be tested as follows:

A solid material sample representing the entire contents of the package shall be immersed for 7 days in water at ambient temperature. The volume of water to be used in the test shall be sufficient to ensure that at the end of the 7 day test period the free volume of the unabsorbed and unreacted water remaining shall be at least 10% of the volume of the solid test sample itself. The water shall have an initial pH of 6-8 and a maximum conductivity of 1 mS/m at 20 °C. The total activity of the free volume of water shall be measured following the 7 day immersion of the test sample.

2.2.7.2.3.1.5 Demonstration of compliance with the performance standards in 2.2.7.2.3.1.4 shall be in accordance with 6.4.12.1 and 6.4.12.2 of ADR.

2.2.7.2.3.2 Surface contaminated object (SCO)

SCO is classified in one of two groups:

- (a) SCO-I: A solid object on which:
  - (i) the non-fixed contamination on the accessible surface averaged over 300 cm<sup>2</sup> (or the area of the surface if less than 300 cm<sup>2</sup>) does not exceed 4 Bq/cm<sup>2</sup> for beta and gamma emitters and low toxicity alpha emitters, or 0.4 Bq/cm<sup>2</sup> for all other alpha emitters; and
  - (ii) the fixed contamination on the accessible surface averaged over 300 cm<sup>2</sup> (or the area of the surface if less than 300 cm<sup>2</sup>) does not exceed  $4 \times 10^4$  Bq/cm<sup>2</sup> for beta and gamma emitters and low toxicity alpha emitters, or  $4 \times 10^3$  Bq/cm<sup>2</sup> for all other alpha emitters; and
  - (iii) the non-fixed contamination plus the fixed contamination on the inaccessible surface averaged over 300 cm<sup>2</sup> (or the area of the surface if less than 300 cm<sup>2</sup>)

does not exceed  $4 \times 10^4$  Bq/cm<sup>2</sup> for beta and gamma emitters and low toxicity alpha emitters, or  $4 \times 10^3$  Bq/cm<sup>2</sup> for all other alpha emitters;

- (b) SCO-II: A solid object on which either the fixed or non-fixed contamination on the surface exceeds the applicable limits specified for SCO-I in (a) above and on which:
- (i) the non-fixed contamination on the accessible surface averaged over 300 cm<sup>2</sup> (or the area of the surface if less than 300 cm<sup>2</sup>) does not exceed 400 Bq/cm<sup>2</sup> for beta and gamma emitters and low toxicity alpha emitters, or 40 Bq/cm<sup>2</sup> for all other alpha emitters; and
  - (ii) the fixed contamination on the accessible surface, averaged over 300 cm<sup>2</sup> (or the area of the surface if less than 300 cm<sup>2</sup>) does not exceed  $8 \times 10^5$  Bq/cm<sup>2</sup> for beta and gamma emitters and low toxicity alpha emitters, or  $8 \times 10^4$  Bq/cm<sup>2</sup> for all other alpha emitters; and
  - (iii) the non-fixed contamination plus the fixed contamination on the inaccessible surface averaged over 300 cm<sup>2</sup> (or the area of the surface if less than 300 cm<sup>2</sup>) does not exceed  $8 \times 10^5$  Bq/cm<sup>2</sup> for beta and gamma emitters and low toxicity alpha emitters, or  $8 \times 10^4$  Bq/cm<sup>2</sup> for all other alpha emitters.

#### 2.2.7.2.3.3 Special form radioactive material

2.2.7.2.3.3.1 Special form radioactive material shall have at least one dimension not less than 5 mm. When a sealed capsule constitutes part of the special form radioactive material, the capsule shall be so manufactured that it can be opened only by destroying it. The design for special form radioactive material requires unilateral approval.

2.2.7.2.3.3.2 Special form radioactive material shall be of such a nature or shall be so designed that if it is subjected to the tests specified in 2.2.7.2.3.3.4 to 2.2.7.2.3.3.8, it shall meet the following requirements:

- (a) It would not break or shatter under the impact, percussion and bending tests 2.2.7.2.3.3.5 (a), (b), (c), 2.2.7.2.3.3.6 (a) as applicable;
- (b) It would not melt or disperse in the applicable heat test 2.2.7.2.3.3.5 (d) or 2.2.7.2.3.3.6 (b) as applicable; and
- (c) The activity in the water from the leaching tests specified in 2.2.7.2.3.3.7 and 2.2.7.2.3.3.8 would not exceed 2 kBq; or alternatively for sealed sources, the leakage rate for the volumetric leakage assessment test specified in ISO 9978:1992 "Radiation Protection - Sealed Radioactive Sources - Leakage Test Methods", would not exceed the applicable acceptance threshold acceptable to the competent authority.

2.2.7.2.3.3.3 Demonstration of compliance with the performance standards in 2.2.7.2.3.3.2 shall be in accordance with 6.4.12.1 and 6.4.12.2 of ADR.

2.2.7.2.3.3.4 Specimens that comprise or simulate special form radioactive material shall be subjected to the impact test, the percussion test, the bending test, and the heat test specified in 2.2.7.2.3.3.5 or alternative tests as authorized in 2.2.7.2.3.3.6. A different specimen may be used for each of the tests. Following each test, a leaching assessment or volumetric leakage test shall be performed on the specimen by a method no less sensitive than the methods given in 2.2.7.2.3.3.7 for indispersible solid material or 2.2.7.2.3.3.8 for encapsulated material.

2.2.7.2.3.3.5 The relevant test methods are:

- (a) Impact test: The specimen shall drop onto the target from a height of 9 m. The target shall be as defined in 6.4.14 of ADR;
- (b) Percussion test: The specimen shall be placed on a sheet of lead which is supported by a smooth solid surface and struck by the flat face of a mild steel bar so as to cause an impact equivalent to that resulting from a free drop of 1.4 kg through 1 m. The lower part of the bar shall be 25 mm in diameter with the edges rounded off to a radius of  $(3.0 \pm 0.3)$  mm. The lead, of hardness number 3.5 to 4.5 on the Vickers scale and not more than 25 mm thick, shall cover an area greater than that covered by the specimen. A fresh surface of lead shall be used for each impact. The bar shall strike the specimen so as to cause maximum damage;
- (c) Bending test: The test shall apply only to long, slender sources with both a minimum length of 10 cm and a length to minimum width ratio of not less than 10. The specimen shall be rigidly clamped in a horizontal position so that one half of its length protrudes from the face of the clamp. The orientation of the specimen shall be such that the specimen will suffer maximum damage when its free end is struck by the flat face of a steel bar. The bar shall strike the specimen so as to cause an impact equivalent to that resulting from a free vertical drop of 1.4 kg through 1 m. The lower part of the bar shall be 25 mm in diameter with the edges rounded off to a radius of  $(3.0 \pm 0.3)$  mm;
- (d) Heat test: The specimen shall be heated in air to a temperature of 800 °C and held at that temperature for a period of 10 minutes and shall then be allowed to cool.

2.2.7.2.3.3.6 Specimens that comprise or simulate radioactive material enclosed in a sealed capsule may be excepted from:

- (a) The tests prescribed in 2.2.7.2.3.3.5 (a) and (b) provided the mass of the special form radioactive material:
  - (i) is less than 200 g and they are alternatively subjected to the Class 4 impact test prescribed in ISO 2919:1999 “Radiation protection - Sealed radioactive sources - General requirements and classification”; or
  - (ii) is less than 500 g and they are alternatively subjected to the Class 5 impact test prescribed in ISO 2919:1999 “Radiation protection - Sealed radioactive sources - General requirements and classification”; and
- (b) The test prescribed in 2.2.7.2.3.3.5 (d) provided they are alternatively subjected to the Class 6 temperature test specified in ISO 2919:1999 “Radiation protection - Sealed radioactive sources - General requirements and classification”.

2.2.7.2.3.3.7 For specimens which comprise or simulate indispersible solid material, a leaching assessment shall be performed as follows:

- (a) The specimen shall be immersed for 7 days in water at ambient temperature. The volume of water to be used in the test shall be sufficient to ensure that at the end of the 7 day test period the free volume of the unabsorbed and unreacted water remaining shall be at least 10% of the volume of the solid test sample itself. The water shall have an initial pH of 6-8 and a maximum conductivity of 1 mS/m at 20 °C;
- (b) The water with specimen shall then be heated to a temperature of  $(50 \pm 5)$  °C and maintained at this temperature for 4 hours;

- (c) The activity of the water shall then be determined;
- (d) The specimen shall then be kept for at least 7 days in still air at not less than 30 °C and relative humidity not less than 90%;
- (e) The specimen shall then be immersed in water of the same specification as in (a) above and the water with the specimen heated to  $(50 \pm 5)$  °C and maintained at this temperature for 4 hours;
- (f) The activity of the water shall then be determined.

2.2.7.2.3.3.8 For specimens which comprise or simulate radioactive material enclosed in a sealed capsule, either a leaching assessment or a volumetric leakage assessment shall be performed as follows:

- (a) The leaching assessment shall consist of the following steps:
  - (i) the specimen shall be immersed in water at ambient temperature. The water shall have an initial pH of 6-8 with a maximum conductivity of 1 mS/m at 20 C;
  - (ii) the water and specimen shall be heated to a temperature of  $(50 \pm 5)$  °C and maintained at this temperature for 4 hours;
  - (iii) the activity of the water shall then be determined;
  - (iv) the specimen shall then be kept for at least 7 days in still air at not less than 30°C and relative humidity of not less than 90%;
  - (v) the process in (i), (ii) and (iii) shall be repeated;
- (b) The alternative volumetric leakage assessment shall comprise any of the tests prescribed in ISO 9978:1992 “Radiation Protection - Sealed radioactive sources - Leakage test methods”, which are acceptable to the competent authority.

2.2.7.2.3.4 Low dispersible radioactive material

2.2.7.2.3.4.1 The design for low dispersible radioactive material shall require multilateral approval. Low dispersible radioactive material shall be such that the total amount of this radioactive material in a package shall meet the following requirements:

- (a) The radiation level at 3 m from the unshielded radioactive material does not exceed 10 mSv/h;
- (b) If subjected to the tests specified in 6.4.20.3 and 6.4.20.4 of ADR, the airborne release in gaseous and particulate forms of up to 100 µm aerodynamic equivalent diameter would not exceed 100 A<sub>2</sub>. A separate specimen may be used for each test; and
- (c) If subjected to the test specified in 2.2.7.2.3.1.4 the activity in the water would not exceed 100 A<sub>2</sub>. In the application of this test, the damaging effects of the tests specified in (b) above shall be taken into account.

2.2.7.2.3.4.2 Low dispersible radioactive material shall be tested as follows:

A specimen that comprises or simulates low dispersible radioactive material shall be subjected to the enhanced thermal test specified in 6.4.20.3 of ADR and the impact test

specified in 6.4.20.4 of ADR. A different specimen may be used for each of the tests. Following each test, the specimen shall be subjected to the leach test specified in 2.2.7.2.3.1.4. After each test it shall be determined if the applicable requirements of 2.2.7.2.3.4.1 have been met.

2.2.7.2.3.4.3 Demonstration of compliance with the performance standards in 2.2.7.2.3.4.1 and 2.2.7.2.3.4.2 shall be in accordance with 6.4.12.1 and 6.4.12.2 of ADR.

2.2.7.2.3.5 Fissile material

Packages containing fissile radionuclides shall be classified under the relevant entry of table 2.2.7.2.1.1 for fissile material unless one of the conditions (a) to (d) of this paragraph is met. Only one type of exception is allowed per consignment.

(a) A mass limit per consignment such that:

$$\frac{\text{mass of uranium-235 (g)}}{X} + \frac{\text{mass of other fissile material (g)}}{Y} < 1$$

where X and Y are the mass limits defined in Table 2.2.7.2.3.5, provided that the smallest external dimension of each package is not less than 10 cm and that either:

- (i) each individual package contains not more than 15 g of fissile material; for unpackaged material, this quantity limitation shall apply to the consignment being carried in or on the wagon/vehicle/conveyance; or
- (ii) the fissile material is a homogeneous hydrogenous solution or mixture where the ratio of fissile nuclides to hydrogen is less than 5% by mass; or
- (iii) there are not more than 5 g of fissile material in any 10 litre volume of material.

Neither beryllium nor deuterium shall be present in quantities exceeding 1% of the applicable consignment mass limits provided in Table 2.2.7.2.3.5, except for deuterium in natural concentration in hydrogen;

- (b) Uranium enriched in uranium-235 to a maximum of 1% by mass, and with a total plutonium and uranium-233 content not exceeding 1% of the mass of uranium-235, provided that the fissile material is distributed essentially homogeneously throughout the material. In addition, if uranium-235 is present in metallic, oxide or carbide forms, it shall not form a lattice arrangement;
- (c) Liquid solutions of uranyl nitrate enriched in uranium-235 to a maximum of 2% by mass, with a total plutonium and uranium-233 content not exceeding 0.002% of the mass of uranium, and with a minimum nitrogen to uranium atomic ratio (N/U) of 2;
- (d) Packages containing, individually, a total plutonium mass not more than 1 kg, of which not more than 20% by mass may consist of plutonium-239, plutonium-241 or any combination of those radionuclides.

**Table 2.2.7.2.3.5: Consignment mass limits for exceptions from the requirements for packages containing fissile material**

| <b>Fissile material</b>    | <b>Fissile material mass (g) mixed with substances having an average hydrogen density less than or equal to water</b> | <b>Fissile material mass (g) mixed with substances having an average hydrogen density greater than water</b> |
|----------------------------|---|--|
| Uranium-235 (X)            | 400   | 290  |
| Other fissile material (Y) | 250   | 180  |

#### 2.2.7.2.4 Classification of packages or unpacked material

The quantity of radioactive material in a package shall not exceed the relevant limits for the package type as specified below.

##### 2.2.7.2.4.1 Classification as excepted package

###### 2.2.7.2.4.1.1 Packages may be classified as excepted packages if:

- (a) They are empty packagings having contained radioactive material;
- (b) They contain instruments or articles in limited quantities;
- (c) They contain articles manufactured of natural uranium, depleted uranium or natural thorium; or
- (d) They contain radioactive material in limited quantities.

###### 2.2.7.2.4.1.2 A package containing radioactive material may be classified as an excepted package provided that the radiation level at any point on its external surface does not exceed 5 $\mu$ Sv/h.

**Table 2.2.7.2.4.1.2: Activity limits for excepted packages**

| <b>Physical state of contents</b> | <b>Instruments or article</b>  |                                   | <b>Materials<br/>Package limits<sup>a</sup></b> |
|-----------------------------------|--------------------------------|-----------------------------------|---|
|                                   | <b>Item limits<sup>a</sup></b> | <b>Package limits<sup>a</sup></b> |   |
| (1)                               | (2)                            | (3)                               | (4)   |
| <b>Solids</b>                     |                                |                                   |   |
| special form                      | $10^{-2} A_1$                  | $A_1$                             | $10^{-3} A_1$                                   |
| other form                        | $10^{-2} A_2$                  | $A_2$                             | $10^{-3} A_2$                                   |
| <b>Liquids</b>                    | $10^{-3} A_2$                  | $10^{-1} A_2$                     | $10^{-4} A_2$                                   |
| <b>Gases</b>                      |                                |                                   |   |
| Tritium                           | $2 \times 10^{-2} A_2$         | $2 \times 10^{-1} A_2$            | $2 \times 10^{-2} A_2$                          |
| special form                      | $10^{-3} A_1$                  | $10^{-2} A_1$                     | $10^{-3} A_1$                                   |
| other forms                       | $10^{-3} A_2$                  | $10^{-2} A_2$                     | $10^{-3} A_2$                                   |

<sup>a</sup> For mixtures of radionuclides, see 2.2.7.2.2.4 to 2.2.7.2.2.6.

###### 2.2.7.2.4.1.3 Radioactive material which is enclosed in or is included as a component part of an instrument or other manufactured article may be classified under UN No. 2911 RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - INSTRUMENTS or ARTICLES provided that:

- (a) The radiation level at 10 cm from any point on the external surface of any unpackaged instrument or article is not greater than 0.1 mSv/h; and

- (b) Each instrument or manufactured article bears the marking “RADIOACTIVE” except:
  - (i) radioluminescent time-pieces or devices;
  - (ii) consumer products that either have received regulatory approval according to 1.7.1.4 (d) or do not individually exceed the activity limit for an exempt consignment in Table 2.2.7.2.2.1 (column 5), provided such products are carried in a package that bears the marking “RADIOACTIVE” on an internal surface in such a manner that warning of the presence of radioactive material is visible on opening the package; and
- (c) The active material is completely enclosed by non-active components (a device performing the sole function of containing radioactive material shall not be considered to be an instrument or manufactured article); and
- (d) The limits specified in columns 2 and 3 of Table 2.2.7.2.4.1.2 are met for each individual item and each package, respectively.

2.2.7.2.4.1.4 Radioactive material with an activity not exceeding the limit specified in column 4 of Table 2.2.7.2.4.1.2, may be classified under UN No. 2910 RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - LIMITED QUANTITY OF MATERIAL provided that:

- (a) The package retains its radioactive contents under routine conditions of carriage; and
- (b) The package bears the marking “RADIOACTIVE” on an internal surface in such a manner that a warning of the presence of radioactive material is visible on opening the package.

2.2.7.2.4.1.5 An empty packaging which had previously contained radioactive material with an activity not exceeding the limit specified in column 4 of Table 2.2.7.2.4.1.2 may be classified under UN No. 2908 RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - EMPTY PACKAGING, provided that:

- (a) It is in a well-maintained condition and securely closed;
- (b) The outer surface of any uranium or thorium in its structure is covered with an inactive sheath made of metal or some other substantial material;
- (c) The level of internal non-fixed contamination, when averaged over any 300 cm<sup>2</sup>, does not exceed:
  - (i) 400 Bq/cm<sup>2</sup> for beta and gamma emitters and low toxicity alpha emitters; and
  - (ii) 40 Bq/cm<sup>2</sup> for all other alpha emitters; and
- (d) Any labels which may have been displayed on it in conformity with 5.2.2.1.11.1 are no longer visible.

2.2.7.2.4.1.6 Articles manufactured of natural uranium, depleted uranium or natural thorium and articles in which the sole radioactive material is unirradiated natural uranium, unirradiated depleted uranium or unirradiated natural thorium may be classified under UN No. 2909 RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - ARTICLES MANUFACTURED FROM NATURAL URANIUM or DEPLETED URANIUM or NATURAL THORIUM,

provided that the outer surface of the uranium or thorium is enclosed in an inactive sheath made of metal or some other substantial material.

2.2.7.2.4.2 Classification as Low specific activity (LSA) material

Radioactive material may only be classified as LSA material if the conditions of 2.2.7.2.3.1 and 4.1.9.2 of ADR are met.

2.2.7.2.4.3 Classification as Surface contaminated object (SCO)

Radioactive material may be classified as SCO if the conditions of 2.2.7.2.3.2 and 4.1.9.2 of ADR are met.

2.2.7.2.4.4 Classification as Type A package

Packages containing radioactive material may be classified as Type A packages provided that the following conditions are met:

Type A packages shall not contain activities greater than the following:

- (a) For special form radioactive material -  $A_1$ ; or
- (b) For all other radioactive material -  $A_2$ .

For mixtures of radionuclides whose identities and respective activities are known, the following condition shall apply to the radioactive contents of a Type A package:

$$\sum_i \frac{B(i)}{A_1(i)} + \sum_j \frac{C(j)}{A_2(j)} \leq 1$$

where  $B(i)$  is the activity of radionuclide  $i$  as special form radioactive material;

$A_1(i)$  is the  $A_1$  value for radionuclide  $i$ ;

$C(j)$  is the activity of radionuclide  $j$  as other than special form radioactive material; and

$A_2(j)$  is the  $A_2$  value for radionuclide  $j$ .

2.2.7.2.4.5 Classification of Uranium hexafluoride

Uranium hexafluoride shall only be assigned to UN Nos. 2977 RADIOACTIVE MATERIAL, URANIUM HEXAFLUORIDE, FISSILE, or 2978 RADIOACTIVE MATERIAL, URANIUM HEXAFLUORIDE, non-fissile or fissile-excepted.

2.2.7.2.4.5.1 Packages containing uranium hexafluoride shall not contain:

- (a) A mass of uranium hexafluoride different from that authorized for the package design;
- (b) A mass of uranium hexafluoride greater than a value that would lead to an ullage smaller than 5% at the maximum temperature of the package as specified for the plant systems where the package shall be used; or
- (c) Uranium hexafluoride other than in solid form or at an internal pressure above atmospheric pressure when presented for carriage.



2.2.7.2.4.6 Classification as Type B(U), Type B(M) or Type C packages

2.2.7.2.4.6.1 Packages not otherwise classified in 2.2.7.2.4 (2.2.7.2.4.1 to 2.2.7.2.4.5) shall be classified in accordance with the competent authority approval certificate for the package issued by the country of origin of design.

2.2.7.2.4.6.2 A package may only be classified as a Type B(U) if it does not contain:

- (a) Activities greater than those authorized for the package design;
- (b) Radionuclides different from those authorized for the package design; or
- (c) Contents in a form, or a physical or chemical state different from those authorized for the package design;

as specified in the certificate of approval.

2.2.7.2.4.6.3 A package may only be classified as a Type B(M) if it does not contain:

- (a) Activities greater than those authorized for the package design;
- (b) Radionuclides different from those authorized for the package design; or
- (c) Contents in a form, or a physical or chemical state different from those authorized for the package design;

as specified in the certificate of approval.

2.2.7.2.4.6.4 A package may only be classified as a Type C if it does not contain:

- (a) Activities greater than those authorized for the package design;
- (b) Radionuclides different from those authorized for the package design; or
- (c) Contents in a form, or physical or chemical state different from those authorized for the package design;

as specified in the certificate of approval.

2.2.7.2.5 *Special arrangements*

Radioactive material shall be classified as transported under special arrangement when it is intended to be carried in accordance with 1.7.4.

**2.2.8 Class 8 Corrosive substances****2.2.8.1 Criteria**

2.2.8.1.1 The heading of Class 8 covers substances and articles containing substances of this class which by chemical action attack epithelial tissue - of skin or mucous membranes - with which they are in contact, or which in the event of leakage are capable of damaging or destroying other goods, or means of transport. The heading of this class also covers other substances which form a corrosive liquid only in the presence of water, or which produce corrosive vapour or mist in the presence of natural moisture of the air.

2.2.8.1.2 Substances and articles of Class 8 are subdivided as follows:

- C1-C10 Corrosive substances without subsidiary risk:
- C1-C4 Acid substances:
    - C1 Inorganic, liquid;
    - C2 Inorganic, solid;
    - C3 Organic, liquid;
    - C4 Organic, solid;
  - C5-C8 Basic substances:
    - C5 Inorganic, liquid;
    - C6 Inorganic, solid;
    - C7 Organic, liquid;
    - C8 Organic, solid;
  - C9-C10 Other corrosive substances:
    - C9 Liquid;
    - C10 Solid;
  - C11 Articles;
  - CF Corrosive substances, flammable:
    - CF1 Liquid;
    - CF2 Solid;
  - CS Corrosive substances, self-heating:
    - CS1 Liquid;
    - CS2 Solid;
  - CW Corrosive substances which, in contact with water, emit flammable gases:
    - CW1 Liquid;
    - CW2 Solid;
  - CO Corrosive substances, oxidizing:
    - CO1 Liquid;
    - CO2 Solid;
  - CT Corrosive substances, toxic:
    - CT1 Liquid;
    - CT2 Solid;

|     |   |
|-----|---|
| CFT | Corrosive substances, flammable, liquid, toxic; |
| COT | Corrosive substances, oxidizing, toxic.         |

*Classification and assignment of packing groups*

2.2.8.1.3 Substances of Class 8 shall be classified in three packing groups according to the degree of danger they present for carriage, as follows:

|                    |                                |
|--------------------|--------------------------------|
| Packing group I:   | highly corrosive substances    |
| Packing group II:  | corrosive substances           |
| Packing group III: | slightly corrosive substances. |

2.2.8.1.4 Substances and articles classified in Class 8 are listed in Table A of Chapter 3.2. Allocation of substances to packing groups I, II and III has been made on the basis of experience taking into account such additional factors as inhalation risk (see 2.2.8.1.5) and reactivity with water (including the formation of dangerous decomposition products).

2.2.8.1.5 A substance or preparation meeting the criteria of Class 8 having an inhalation toxicity of dusts and mists (LC<sub>50</sub>) in the range of packing group I, but toxicity through oral ingestion or dermal contact only in the range of packing group III or less, shall be allocated to Class 8.

2.2.8.1.6 Substances, including mixtures, not mentioned by name in Table A of Chapter 3.2 can be assigned to the relevant entry of sub-section 2.2.8.3, and to the relevant packing group on the basis of the length of time of contact necessary to produce full thickness destruction of human skin in accordance with the criteria of (a) to (c) below.

Liquids, and solids which may become liquid during carriage, which are judged not to cause full thickness destruction of human skin shall still be considered for their potential to cause corrosion to certain metal surfaces. In assigning the packing group, account shall be taken of human experience in instances of accidental exposure. In the absence of human experience, the grouping shall be based on data obtained from experiments in accordance with OECD Guideline 404<sup>8</sup>.

- (a) Packing group I is assigned to substances that cause full thickness destruction of intact skin tissue within an observation period up to 60 minutes starting after the exposure time of 3 minutes or less.
- (b) Packing group II is assigned to substances that cause full thickness destruction of intact skin tissue within an observation period up to 14 days starting after the exposure time of more than 3 minutes but not more than 60 minutes.
- (c) Packing group III is assigned to substances that:
  - cause full thickness destruction of intact skin tissue within an observation period up to 14 days starting after the exposure time of more than 60 minutes but not more than 4 hours; or
  - are judged not to cause full thickness destruction of intact skin tissue, but which exhibit a corrosion rate on either steel or aluminium surfaces exceeding 6.25 mm a year at a test temperature of 55 °C when tested on both

<sup>8</sup> *OECD guidelines for Testing of Chemicals, No. 404 "Acute Dermal Irritation/Corrosion" (1992).*

materials. For the purposes of testing steel, type S235JR+CR (1.0037 resp. St 37-2), S275J2G3+CR (1.0144 resp. St 44-3), ISO 3574, Unified Numbering System (UNS) G10200 or SAE 1020, and for testing aluminium, non-clad, types 7075-T6 or AZ5GU-T6 shall be used. An acceptable test is prescribed in the Manual of Tests and Criteria, Part III, Section 37.

**NOTE:** *Where an initial test on either steel or aluminium indicates the substance being tested is corrosive the follow up test on the other metal is not required.*

2.2.8.1.7 If substances of Class 8, as a result of admixtures, come into categories of risk different from those to which the substances mentioned by name in Table A of Chapter 3.2 belong, these mixtures or solutions shall be assigned to the entries to which they belong, on the basis of their actual degree of danger.

**NOTE:** *For the classification of solutions and mixtures (such as preparations and wastes), see also 2.1.3.*

2.2.8.1.8 On the basis of the criteria set out in paragraph 2.2.8.1.6, it may also be determined whether the nature of a solution or mixture mentioned by name or containing a substance mentioned by name is such that the solution or mixture is not subject to the provisions for this class.

2.2.8.1.9 Substances, solutions and mixtures, which

- do not meet the criteria of Directives 67/548/EEC<sup>3</sup> or 1999/45/EC<sup>4</sup> as amended and therefore are not classified as corrosive according to these directives, as amended; and
- do not exhibit a corrosive effect on steel or aluminium,

may be considered as substances not belonging to Class 8.

**NOTE:** *UN No. 1910 calcium oxide and UN No. 2812 sodium aluminate, listed in the UN Model Regulations, are not subject to the provisions of ADN.*

## **2.2.8.2 Substances not accepted for carriage**

2.2.8.2.1 The chemically unstable substances of Class 8 shall not be accepted for carriage unless the necessary steps have been taken to prevent their dangerous decomposition or polymerization during carriage. To this end it shall in particular be ensured that receptacles and tanks do not contain any substance liable to promote these reactions.

2.2.8.2.2 The following substances shall not be accepted for carriage:

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<sup>3</sup> Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances (Official Journal of the European Communities No. L 196 of 16.08.1967, page 1).

<sup>4</sup> Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 on the approximation of laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations (Official Journal of the European Communities No. L 200 of 30 July 1999, pages 1 to 68).

- UN No. 1798 NITROHYDROCHLORIC ACID;
- chemically unstable mixtures of spent sulphuric acid;
- chemically unstable mixtures of nitrating acid or mixtures of residual sulphuric and nitric acids, not denitrated;
- perchloric acid aqueous solution with more than 72 % pure acid, by mass, or mixtures of perchloric acid with any liquid other than water.

2.2.8.3 *List of collective entries***Corrosive substances without subsidiary risk**

|                                   |                  |                               |   |
|-----------------------------------|------------------|-------------------------------|---|
| <b>Acid</b>                       | <b>inorganic</b> | <b>liquid</b> C1              | 2584 ALKYLsulphonic acids, LIQUID with more than 5% free sulphuric acid or<br>2584 ARYLsulphonic acids, LIQUID with more than 5% free sulphuric acid<br>2693 BISulphites, AQUEOUS SOLUTION, N.O.S.<br>2837 BISulphates, AQUEOUS SOLUTION<br>3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  |
|                                   |                  | <b>solid</b> C2               | 1740 HYDROGENDIFLUORIDES, SOLID, N.O.S.<br>2583 ALKYLsulphonic acids, SOLID with more than 5% free sulphuric acid or<br>2583 ARYLsulphonic acids, SOLID with more than 5% free sulphuric acid<br>3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.  |
| <b>C1-C4</b>                      | <b>organic</b>   | <b>liquid</b> C3              | 2586 ALKYLsulphonic acids, LIQUID with not more than 5% free sulphuric acid or<br>2586 ARYLsulphonic acids, LIQUID with not more than 5% free sulphuric acid<br>2987 CHLOROSILANES, CORROSIVE, N.O.S.<br>3145 ALKYLPHENOLS, LIQUID, N.O.S. (including C <sub>2</sub> -C <sub>12</sub> homologues)<br>3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.                       |
|                                   |                  | <b>solid</b> C4               | 2430 ALKYLPHENOLS, SOLID, N.O.S. (including C <sub>2</sub> -C <sub>12</sub> homologues)<br>2585 ALKYLsulphonic acids, SOLID with not more than 5% free sulphuric acid or<br>2585 ARYLsulphonic acids, SOLID with not more than 5% free sulphuric acid<br>3261 CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.  |
| <b>Basic</b>                      | <b>inorganic</b> | <b>liquid</b> C5              | 1719 CAUSTIC ALKALI LIQUID, N.O.S.<br>2797 BATTERY FLUID, ALKALI<br>3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.   |
|                                   |                  | <b>solid</b> C6               | 3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.  |
| <b>C5-C8</b>                      | <b>organic</b>   | <b>liquid</b> C7              | 2735 AMINES, LIQUID, CORROSIVE, N.O.S. or<br>2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S.<br>3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.  |
|                                   |                  | <b>solid</b> C8               | 3259 AMINES, SOLID, CORROSIVE, N.O.S., or<br>3259 POLYAMINES, SOLID, CORROSIVE, N.O.S.<br>3263 CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.  |
| <b>Other corrosive substances</b> |                  | <b>liquid</b> C9              | 1903 DISINFECTANT, LIQUID, CORROSIVE, N.O.S.<br>2801 DYE, LIQUID, CORROSIVE, N.O.S. or<br>2801 DYE INTERMEDIATE, LIQUID, CORROSIVE, N.O.S.<br>3066 PAINT (including paint, enamel, stain, shellac, varnish, polish, liquid filler and lacquer base)<br>or<br>3066 PAINT RELATED MATERIAL (including paint thinning or reducing compound)<br>1760 CORROSIVE LIQUID, N.O.S. |
| <b>C9-C10</b>                     |                  | <b>solid</b> <sup>a</sup> C10 | 3147 DYE, SOLID, CORROSIVE, N.O.S. or<br>3147 DYE INTERMEDIATE, SOLID, CORROSIVE, N.O.S.<br>3244 SOLIDS CONTAINING CORROSIVE LIQUID, N.O.S.<br>1759 CORROSIVE SOLID, N.O.S.   |
| <b>Articles</b>                   |                  | <b>C11</b>                    | 2794 BATTERIES, WET, FILLED WITH ACID, electric storage<br>2795 BATTERIES, WET, FILLED WITH ALKALI, electric storage<br>2800 BATTERIES, WET, NON-SPILLABLE, electric storage<br>3028 BATTERIES, DRY, CONTAINING POTASSIUM HYDROXIDE SOLID, electric storage   |

(cont'd on next page)

<sup>a</sup> *Mixtures of solids which are not subject to the provisions of ADN and of corrosive liquids may be carried under UN No. 3244 without being subject to the classification criteria of Class 8, provided there is no free liquid visible at the time the substance is loaded or at the time the packaging or cargo transport unit is closed. Each packaging shall correspond to a design type which has passed the leakproofness test for Packing group II level.*

**Corrosive substances with subsidiary risk(s)**

|   |                           |            |  |
|---|---------------------------|------------|--|
| (cont'd)                                    | <b>liquid</b>             | <b>CF1</b> | 3470 PAINT, CORROSIVE, FLAMMABLE (including paint, enamel, stain, shellac, varnish, polish, liquid filler and lacquer base) or<br>3470 PAINT RELATED MATERIAL, CORROSIVE, FLAMMABLE (including paint thinning or reducing compound)<br>2734 AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. or<br>2734 POLYAMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S.<br>2986 CHLOROSILANES, CORROSIVE, FLAMMABLE, N.O.S.<br>2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. |
| <b>Flammable<sup>b</sup></b>                |                           |            |  |
| <b>CF</b>                                   | <b>solid</b>              | <b>CF2</b> | 2921 CORROSIVE SOLID, FLAMMABLE, N.O.S.  |
| <b>Self-heating</b>                         | <b>liquid</b>             | <b>CS1</b> | 3301 CORROSIVE LIQUID, SELF-HEATING, N.O.S.  |
| <b>CS</b>                                   | <b>solid</b>              | <b>CS2</b> | 3095 CORROSIVE SOLID, SELF-HEATING, N.O.S.   |
| <b>Water-reactive</b>                       | <b>liquid<sup>b</sup></b> | <b>CW1</b> | 3094 CORROSIVE LIQUID, WATER-REACTIVE, N.O.S.  |
| <b>CW</b>                                   | <b>solid</b>              | <b>CW2</b> | 3096 CORROSIVE SOLID, WATER-REACTIVE, N.O.S.   |
| <b>Oxidizing</b>                            | <b>liquid</b>             | <b>CO1</b> | 3093 CORROSIVE LIQUID, OXIDIZING, N.O.S.   |
| <b>CO</b>                                   | <b>solid</b>              | <b>CO2</b> | 3084 CORROSIVE SOLID, OXIDIZING, N.O.S.  |
| <b>Toxic<sup>d</sup></b>                    | <b>liquid<sup>c</sup></b> | <b>CT1</b> | 3471 HYDROGENDIFLUORIDES SOLUTION, N.O.S.<br>2922 CORROSIVE LIQUID, TOXIC, N.O.S.  |
| <b>CT</b>                                   | <b>solid<sup>e</sup></b>  | <b>CT2</b> | 2923 CORROSIVE SOLID, TOXIC, N.O.S.  |
| <b>Flammable, liquid, toxic<sup>d</sup></b> |                           | <b>CFT</b> | No collective entry with this classification code available; if need be, classification under a collective entry with a classification code to be determined according to table of precedence of hazard in 2.1.3.10.   |
| <b>Oxidizing, toxic<sup>d, e</sup></b>      |                           | <b>COT</b> | No collective entry with this classification code available; if need be, classification under a collective entry with a classification code to be determined according to table of precedence of hazard in 2.1.3.10.   |

<sup>b</sup> Chlorosilanes which, in contact with water or moist air, emit flammable gases, are substances of Class 4.3.

<sup>c</sup> Chloroformates having predominantly toxic properties are substances of Class 6.1.

<sup>d</sup> Corrosive substances which are highly toxic by inhalation, as defined in 2.2.61.1.4 to 2.2.61.1.9 are substances of Class 6.1.

<sup>e</sup> UN No. 2505 AMMONIUM FLUORIDE, UN No. 1812 POTASSIUM FLUORIDE, UN No. 1690 SODIUM FLUORIDE, SOLD, UN No. 2674 SODIUM FLUOROSILICATE, UN No. 2856 FLUOROSILICATES, N.O.S., UN No. 3415 SODIUM FLUORIDE SOLUTION and UN No. 3422 POTASSIUM FLUORIDE SOLUTION are substances of Class 6.1.

**2.2.9 Class 9 Miscellaneous dangerous substances and articles**

**2.2.9.1 Criteria**

2.2.9.1.1 The heading of Class 9 covers substances and articles which, during carriage, present a danger not covered by the heading of other classes.

2.2.9.1.2 The substances and articles of Class 9 are subdivided as follows:

M1 Substances which, on inhalation as fine dust, may endanger health;

M2 Substances and apparatus which, in the event of fire, may form dioxins;

M3 Substances evolving flammable vapour;

M4 Lithium batteries;

M5 Life-saving appliances;

M6-M8 Environmentally hazardous substances:

M6 Pollutant to the aquatic environment, liquid;

M7 Pollutant to the aquatic environment, solid;

M8 Genetically modified micro-organisms and organisms;

M9-M10 Elevated temperature substances:

M9 Liquid;

M10 Solid;

M11 Other substances presenting a danger during carriage, but not meeting the definitions of another class.

*Definitions and classification*

2.2.9.1.3 Substances and articles classified in Class 9 are listed in Table A of Chapter 3.2. The assignment of substances and articles not mentioned by name in Table A of Chapter 3.2 to the relevant entry of that Table or of sub-section 2.2.9.3 shall be done in accordance with 2.2.9.1.4 to 2.2.9.1.14 below.

*Substances which, on inhalation as fine dust, may endanger health*

2.2.9.1.4 Substances which, on inhalation as fine dust, may endanger health include asbestos and mixtures containing asbestos.

*Substances and apparatus which, in the event of fire, may form dioxins*

2.2.9.1.5 Substances and apparatus which, in the event of fire, may form dioxins include polychlorinated biphenyls (PCBs) and terphenyls (PCTs) and polyhalogenated biphenyls and terphenyls and mixtures containing these substances, as well as apparatus such as transformers, condensers and apparatus containing those substances or mixtures.

**NOTE:** Mixtures with a PCB or PCT content of not more than 50 mg/kg are not subject to the provisions of ADN.



*Substances evolving flammable vapour*

- 2.2.9.1.6 Substances evolving flammable vapour include polymers containing flammable liquids with a flash-point not exceeding 55 °C.

*Lithium batteries*

- 2.2.9.1.7 The term “lithium battery” covers all cells and batteries containing lithium in any form. They may be assigned to Class 9 if they meet the requirements of special provision 230 of Chapter 3.3. They are not subject to the provisions of ADN if they meet the requirements of special provision 188 of Chapter 3.3. They shall be classified in accordance with the procedures of Section 38.3 of the Manual of Tests and Criteria.

*Life-saving appliances*

- 2.2.9.1.8 Life-saving appliances include life-saving appliances and motor vehicle components which meet the descriptions of special provisions 235 or 296 of Chapter 3.3.

*Environmentally hazardous substances*

- 2.2.9.1.9 *(Deleted)*

*Pollutants to the aquatic environment*

- 2.2.9.1.10

- 2.2.9.1.10.1 For carriage in packages or in bulk, substances, solutions and mixtures meeting the criteria for Acute 1, Chronic 1 or Chronic 2 in Chapter 2.4 (see also 2.1.3.8) shall be considered to be environmentally hazardous (aquatic environment). Substances which cannot be assigned to other classes in ADN or to other Class 9 entries and which meet these criteria shall be assigned to UN Nos. 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., or 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, and to packing group III.

- 2.2.9.1.10.2 For carriage in tank vessels, the substances, solutions and mixtures referred to in 2.2.9.1.10.1 and those meeting the criteria for Acute 2, Acute 3 or Chronic 3 in Chapter 2.4 shall be considered to be environmentally hazardous.

Substances classified as environmentally hazardous which meet the criteria for Acute or Chronic Category 1 shall be assigned to group ‘N1’.

Substances classified as environmentally hazardous which meet the criteria for Chronic Categories 2 or 3 shall be assigned to group ‘N2’.

Substances classified as environmentally hazardous which meet the criteria for Acute Categories 2 or 3 shall be assigned to group ‘N3’.

Substances which meet the criteria of 2.2.9.1.10 shall be assigned to UN Nos. 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, or 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., MOLTEN. Those that meet the additional criteria in this paragraph shall be assigned to identification Nos. 9005, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, MOLTEN, or 9006, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

2.2.9.1.10.3 Notwithstanding the provisions of 2.2.9.1.10.1,

- (a) Substances which cannot be assigned to entries other than UN Nos. 3077 and 3082 in Class 9 or to other entries in Classes 1 to 8, but which are identified in Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances,<sup>9</sup> as amended, as substances to which letter N 'Environmentally hazardous' (R50; R50/53; R51/53) has been allocated; and
- (b) Solutions and mixtures (such as preparations and wastes) of substances to which letter N 'Environmentally hazardous' (R50; R50/53; R51/53) has been allocated in Directive 67/548/EEC, as amended, and which, according to Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations,<sup>10</sup> as amended, are also allocated letter N 'Environmentally hazardous' (R50; R50/53; R51/53) and which cannot be assigned to entries other than UN Nos. 3077 and 3082 in Class 9 or to other entries in Classes 1 to 8;

Shall be assigned to UN Nos. 3077 and 3082, as appropriate.

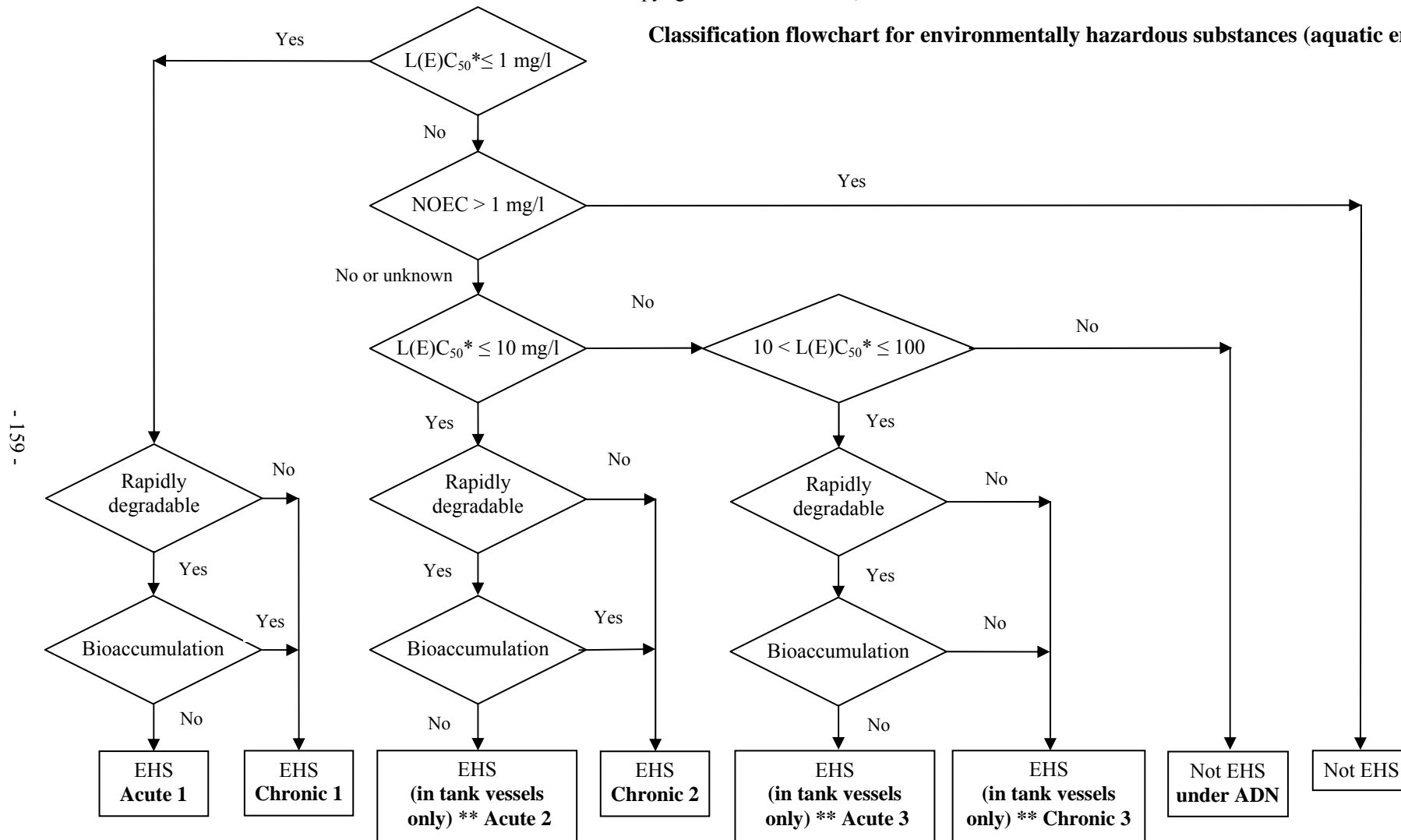
2.2.9.1.10.4 Classification flowchart for environmentally hazardous substances

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<sup>9</sup> *Official Journal of the European Communities No. 196, of 16 August 1967, pp. 1-5.*

<sup>10</sup> *Official Journal of the European Communities No. L 200, of 30 July 1999, pp. 1-68.*

**Classification flowchart for environmentally hazardous substances (aquatic environment)**



EHS = Environmentally hazardous substance (aquatic environment).

\* Lowest value of 96-hour LC<sub>50</sub>, 48-hour EC<sub>50</sub> or 72- or 92-hour ErC<sub>50</sub> as appropriate.

\*\* Substances not considered dangerous for the environment when transported in packages.

*Genetically modified micro-organisms or organisms*

- 2.2.9.1.11 Genetically modified micro-organisms (GMMOs) and genetically modified organisms (GMOs) are micro-organisms and organisms in which genetic material has been purposely altered through genetic engineering in a way that does not occur naturally. They are assigned to Class 9 (UN No. 3245) if they do not meet the definition of infectious substances, but are capable of altering animals, plants or microbiological substances in a way not normally the result of natural reproduction.

**NOTE 1:** *GMMOs and GMOs which are infectious are substances of Class 6.2, UN Nos. 2814, 2900 or 3373).*

**NOTE 2:** *GMMOs or GMOs are not subject to the provisions of ADN when authorized for use by the competent authorities of the countries of origin, transit and destination<sup>11</sup>.*

**NOTE 3:** Live animals shall not be used to carry genetically modified micro-organisms classified in Class 9 unless the substance can be carried no other way.

- 2.2.9.1.12 *(Deleted)*

*Elevated temperature substances*

- 2.2.9.1.13 Elevated temperature substances include substances which are carried or handed over for carriage in the liquid state at or above 100 °C and, in the case of those with a flash-point, below their flash-point. They also include solids which are carried or handed over for carriage at or above 240 °C.

**NOTE 1:** *Elevated temperature substances may be assigned to Class 9 only if they do not meet the criteria of any other class.*

**NOTE 2:** *Substances having a flash-point above 60 °C which are carried or handed over for carriage within a range of 15 K below the flash-point are substances of Class 3, identification number 9001.*

*Other substances presenting a danger during carriage but not meeting the definitions of another class.*

- 2.2.9.1.14 The following other miscellaneous substances not meeting the definitions of another class are assigned to Class 9:

Solid ammonia compounds having a flash-point below 60 °C  
Low hazard dithionites  
Highly volatile liquids  
Substances emitting noxious fumes  
Substances containing allergens  
Chemical kits and first aid kits

The following miscellaneous substances not meeting the definition of another class are assigned to Class 9 when they are carried in bulk or in tank vessels:

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<sup>11</sup> See in particular Part C of Directive 2001/18/EC of the European Parliament and of the Council on the deliberate release into the environment of genetically modified organisms and repealing Council Directive 90/220/EEC (Official Journal of the European Communities, No. L 106, of 17 April 2001, pp. 8-14), which sets out the authorization procedures for the European Community.

- UN 2071 AMMONIUM NITRATE FERTILIZERS: uniform non-segregating mixtures of nitrogen phosphate or nitrogen potash types or complete fertilizers of nitrogen phosphate potash type, with not more than 70% ammonium nitrate and not more than 0.4% total combustible material, or with not more than 45% ammonium nitrate irrespective of their content of combustible material;

**NOTE 1:** *In determining the ammonium nitrate content, all nitrate ions for which a molecular equivalent of ammonium ions is present in the mixture shall be calculated as ammonium nitrate mass.*

**NOTE 2:** *Ammonium nitrate fertilizers of Class 9 are not subject to ADN if:*

- *the results of the trough test (see Manual of Tests and Criteria, Part III, sub-section 38.2) show that they are not capable of undergoing self-sustaining decomposition; and*
- *the calculation referred to in NOTE 1 does not give an excess of nitrate greater than 10% by mass, calculated in  $KNO_3$ .*
- UN 2216 FISH MEAL, STABILIZED (humidity between 5% by mass and 12% by mass with not more than 15% fat by mass); or
- UN 2216 FISH SCRAP, STABILIZED (humidity between 5% by mass and 12% by mass with not more than 15% fat by mass);
- Identification No. 9003 SUBSTANCES HAVING A FLASH-POINT ABOVE 60° C AND NOT MORE THAN 100° C which cannot be assigned to another class or another entry of Class 9;
- Identification No. 9004, 4,4'-DIPHENYLMETHANE DIISOCYANATE.;
- Identification No. 9005, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, MOLTEN, which cannot be assigned to UN No. 3077;
- Identification No. 9006, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., which cannot be assigned to UN No. 3082.

**NOTE:** *UN No. 1845 carbon dioxide, solid (dry ice), UN No. 2807 magnetized material, UN No. 3166 engine, internal combustion or vehicle, flammable gas powered or vehicle, flammable liquid powered, UN No. 3171 battery-powered vehicle or 3171 battery-powered equipment (wet battery), UN No. 3334 aviation regulated liquid, n.o.s., UN No. 3335 aviation regulated solid, n.o.s. and UN No. 3363 dangerous goods in machinery or dangerous goods in apparatus, listed in the UN Model Regulations, are not subject to the provisions of ADN.*

#### *Assignment of the packing groups*

2.2.9.1.15 When indicated in column 4 of Table A of Chapter 3.2, substances and articles of Class 9 are assigned to one of the following packing groups according to their degree of danger:

Packing group II: substances presenting medium danger;  
Packing group III: substances presenting low danger.

#### **2.2.9.2 Substances and articles not accepted for carriage**

The following substances and articles shall not be accepted for carriage:

- Lithium batteries which do not meet the relevant conditions of special provisions 188, 230 or 636 of Chapter 3.3;
- Uncleaned empty containment vessels for apparatus such as transformers, condensers and hydraulic apparatus containing substances assigned to UN Nos. 2315, 3151, 3152 or 3432.

### 2.2.9.3 List of collective entries

|   |            |  |
|---|------------|--|
| <b>Substances which, on inhalation as fine dust, may endanger health</b>      | <b>M1</b>  | 2212 BLUE ASBESTOS (crocidolite) or<br>2212 BROWN ASBESTOS (amosite, mysorite)<br>2590 WHITE ASBESTOS (chrysotile, actinolite, anthophyllite, tremolite)   |
| <b>Substances and apparatus which, in the event of fire, may form dioxins</b> | <b>M2</b>  | 2315 POLYCHLORINATED BIPHENYLS, LIQUID<br>3432 POLYCHLORINATED BIPHENYLS, SOLID<br>3151 POLYHALOGENATED BIPHENYLS, LIQUID or<br>3151 POLYHALOGENATED TERPHENYLS, LIQUID<br>3152 POLYHALOGENATED BIPHENYLS, SOLID or<br>3152 POLYHALOGENATED TERPHENYLS, SOLID  |
| <b>Substances evolving flammable vapour</b>                                   | <b>M3</b>  | 2211 POLYMERIC BEADS, EXPANDABLE, evolving flammable vapour<br>3314 PLASTICS MOULDING COMPOUND in dough, sheet or extruded rope form evolving flammable vapour   |
| <b>Lithium batteries</b>  | <b>M4</b>  | 3090 LITHIUM BATTERIES (including lithium alloy batteries)<br>3091 LITHIUM BATTERIES CONTAINED IN EQUIPMENT (including lithium alloy batteries) or<br>3091 LITHIUM BATTERIES PACKED WITH EQUIPMENT (including lithium alloy batteries)<br>3480 LITHIUM ION BATTERIES (including lithium ion polymer batteries)<br>3481 LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT (including lithium ion polymer batteries) or<br>3481 LITHIUM ION BATTERIES PACKED WITH EQUIPMENT (including lithium ion polymer batteries) |
| <b>Live-saving appliances</b>   | <b>M5</b>  | 2990 LIFE-SAVING APPLIANCES, SELF-INFLATING<br>3072 LIFE-SAVING APPLIANCES NOT SELF-INFLATING containing dangerous goods as equipment<br>3268 AIR BAG INFLATORS or<br>3268 AIR BAG MODULES or<br>3268 SEAT-BELT PRETENSIONERS  |
| <b>Environmentally hazardous substances</b>                                   | <b>M6</b>  | <b>pollutant to the aquatic environment, liquid</b><br>3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  |
|   | <b>M7</b>  | <b>pollutant to the aquatic environment, solid</b><br>3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  |
| <b>Elevated temperature substances</b>  | <b>M8</b>  | <b>genetically modified micro-organisms and organisms</b><br>3245 GENETICALLY MODIFIED MICROORGANISMS or<br>3245 GENETICALLY MODIFIED ORGANISMS  |
|   | <b>M9</b>  | <b>liquid</b><br>3257 ELEVATED TEMPERATURE LIQUID, N.O.S., at or above 100 °C and below its flash-point (including molten metal, molten salts, etc.)   |
|   | <b>M10</b> | <b>solid</b><br>3258 ELEVATED TEMPERATURE SOLID, N.O.S., at or above 240 °C  |

(cont'd on next page)

**2.2.9.3**      *List of collective entries (cont'd)*

**Other substances or articles presenting a danger during carriage, but not meeting the definitions of another class**

**M11**

|   |
|---|
| No collective entry available. Only substances listed in Table A of Chapter 3.2 are subject to the provisions for Class 9 under this classification code, as follows:<br>1841 ACETALDEHYDE AMMONIA<br>1931 ZINC DITHIONITE (ZINC HYDROSULPHITE)<br>1941 DIBROMODIFLUOROMETHANE<br>1990 BENZALDEHYDE<br>2969 CASTOR BEANS, or<br>2969 CASTOR MEAL, or<br>2969 CASTOR POMACE, or<br>2969 CASTOR FLAKE<br>3316 CHEMICAL KIT, or<br>3316 FIRST AID KIT<br>3359 FUMIGATED UNIT |
|---|





## CHAPTER 2.3

### TEST METHODS

#### 2.3.0 General

Unless otherwise provided for in Chapter 2.2 or in this Chapter, the test methods to be used for the classification of dangerous goods are those described in the Manual of Tests and Criteria.

#### 2.3.1 Exudation test for blasting explosives of Type A

2.3.1.1 Blasting explosives of type A (UN No. 0081) shall, if they contain more than 40 % liquid nitric ester, in addition to the testing specified in the Manual of Tests and Criteria, satisfy the following exudation test.

2.3.1.2 The apparatus for testing blasting explosive for exudation (figs. 1 to 3) consists of a hollow bronze cylinder. This cylinder, which is closed at one end by a plate of the same metal, has an internal diameter of 15.7 mm and a depth of 40 mm.

It is pierced by 20 holes 0.5 mm in diameter (four sets of five holes) on the circumference. A bronze piston, cylindrically fashioned over a length of 48 mm and having a total length of 52 mm, slides into the vertically placed cylinder.

The piston, whose diameter is 15.6 mm, is loaded with a mass of 2 220 g so that a pressure of 120 kPa (1.20 bar) is exerted on the base of the cylinder.

2.3.1.3 A small plug of blasting explosive weighing 5 to 8 g, 30 mm long and 15 mm in diameter, is wrapped in very fine gauze and placed in the cylinder; the piston and its loading mass are then placed on it so that the blasting explosive is subjected to a pressure of 120 kPa (1.20 bar). The time taken for the appearance of the first signs of oily droplets (nitroglycerine) at the outer orifices of the cylinder holes is noted.

2.3.1.4 The blasting explosive is considered satisfactory if the time elapsing before the appearance of the liquid exudations is more than five minutes, the test having been carried out at a temperature of 15 °C to 25 °C.

*Test of blasting explosive for exudation*

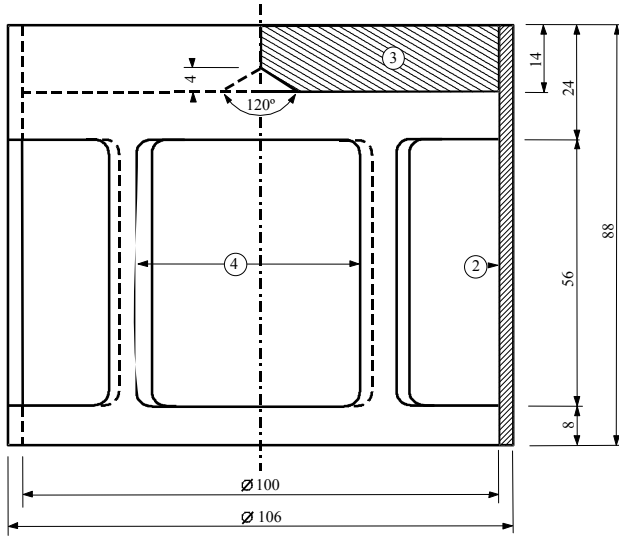


Fig.1: Bell-form charge, mass 2220 g, capable of being suspended from a bronze piston

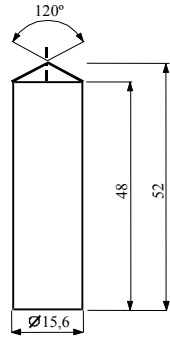


Fig.2: Cylindrical bronze piston, dimensions in mm

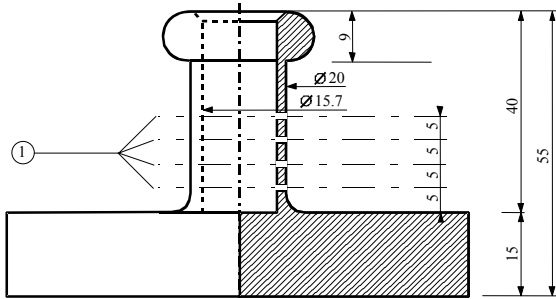


Fig.3: Hollow bronze cylinder, closed at one end; Plan and cut dimensions in mm

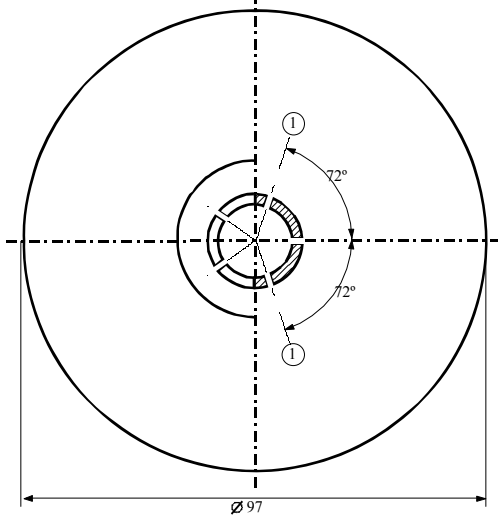


Fig. 1 to 3

- (1) 4 series of 5 holes at 0.5 Ø
- (2) copper
- (3) iron plate with centre cone at the inferior face
- (4) 4 openings, approximately 46x56, set at even intervals on the periphery

**2.3.2 Tests relating to nitrated cellulose mixtures of Class 4.1**

- 2.3.2.1 Nitrocellulose heated for half an hour at 132 °C shall not give off visible yellowish-brown nitrous fumes (nitrous gases). The ignition temperature shall be above 180 °C. See 2.3.2.3 to 2.3.2.8, 2.3.2.9 (a) and 2.3.2.10 below.
- 2.3.2.2 3 g of plasticized nitrocellulose, heated for one hour at 132 °C, shall not give off visible yellowish-brown nitrous fumes (nitrous gases). The ignition temperature shall be above 170 °C. See 2.3.2.3 to 2.3.2.8, 2.3.2.9 (b) and 2.3.2.10 below.
- 2.3.2.3 The test procedures set out below are to be applied when differences of opinion arise as to the acceptability of substances for carriage by road.
- 2.3.2.4 If other methods or test procedures are used to verify the conditions of stability prescribed above in this section, those methods shall lead to the same findings as could be reached by the methods specified below.
- 2.3.2.5 In carrying out the stability tests by heating described below, the temperature of the oven containing the sample under test shall not deviate by more than 2 °C from the prescribed temperature; the prescribed duration of a 30-minute or 60-minute test shall be observed to within two minutes. The oven shall be such that the required temperature is restored not more than five minutes after insertion of the sample.
- 2.3.2.6 Before undergoing the tests in 2.3.2.9 and 2.3.2.10, the samples shall be dried for not less than 15 hours at the ambient temperature in a vacuum desiccator containing fused and granulated calcium chloride, the sample substance being spread in a thin layer; for this purpose, substances which are neither in powder form nor fibrous shall be ground, or grated, or cut into small pieces. The pressure in the desiccator shall be brought below 6.5 kPa (0.065 bar).
- 2.3.2.7 Before being dried as prescribed in 2.3.2.6 above, substances conforming to 2.3.2.2 shall undergo preliminary drying in a well-ventilated oven, with its temperature set at 70 °C, until the loss of mass per quarter-hour is less than 0.3 % of the original mass.
- 2.3.2.8 Weakly nitrated nitrocellulose conforming to 2.3.2.1 shall first undergo preliminary drying as prescribed in 2.3.2.7 above; drying shall then be completed by keeping the nitrocellulose for at least 15 hours over concentrated sulphuric acid in a desiccator.

**2.3.2.9 Test of chemical stability under heat**

(a) *Test of the substance listed in paragraph 2.3.2.1 above.*

(i) In each of two glass test tubes having the following dimensions:

|                   |     |    |
|-------------------|-----|----|
| length            | 350 | mm |
| internal diameter | 16  | mm |
| thickness of wall | 1.5 | mm |

is placed 1 g of substance dried over calcium chloride (if necessary the drying shall be carried out after reducing the substance to pieces weighing not more than 0.05 g each).

Both test tubes, completely covered with loose-fitting closures, are then so placed in an oven that at least four-fifths of their length is visible, and are kept at a constant temperature of 132 °C for 30 minutes. It is observed whether nitrous gases in the form of yellowish-brown fumes clearly visible against a white background are given off during this time.

(ii) In the absence of such fumes the substance is deemed to be stable.

- (b) *Test of plasticized nitrocellulose (see 2.3.2.2)*
- (i) 3 g of plasticized nitrocellulose are placed in glass test tubes, similar to those referred to in (a), which are then placed in an oven kept at a constant temperature of 132 °C.
  - (ii) The test tubes containing the plasticized nitrocellulose are kept in the oven for one hour. During this time no yellowish-brown nitrous fumes (nitrous gases) shall be visible. Observation and appraisal as in (a).

**2.3.2.10** *Ignition temperature (see 2.3.2.1 and 2.3.2.2)*

- (a) The ignition temperature is determined by heating 0.2 g of substance enclosed in a glass test tube immersed in a Wood's alloy bath. The test tube is placed in the bath when the latter has reached 100 °C. The temperature of the bath is then progressively increased by 5 °C per minute;
- (b) The test tubes must have the following dimensions:

|                   |        |
|-------------------|--------|
| length            | 125 mm |
| internal diameter | 15 mm  |
| thickness of wall | 0.5 mm |

and shall be immersed to a depth of 20 mm;
- (c) The test shall be repeated three times, the temperature at which ignition of the substance occurs, i.e., slow or rapid combustion, deflagration or detonation, being noted each time;
- (d) The lowest temperature recorded in the three tests is the ignition temperature.

**2.3.3** **Tests relating to flammable liquids of Classes 3, 6.1 and 8**

**2.3.3.1** *Test for determining flash-point*

2.3.3.1.1 The flash-point shall be determined by means of one of the following types of apparatus:

- (a) Abel;
- (b) Abel-Pensky;
- (c) Tag;
- (d) Pensky-Martens;
- (e) Apparatus in accordance with ISO 3679:1983 or ISO 3680:1983.

2.3.3.1.2 To determine the flash-point of paints, gums and similar viscous products containing solvents, only apparatus and test methods suitable for determining the flash-point for viscous liquids shall be used, in accordance with the following standards:

- (a) International Standard ISO 3679:1983;
- (b) International Standard ISO 3680:1983;
- (c) International Standard ISO 1523:1983;
- (d) German Standard DIN 53213:1978, Part 1.

- 2.3.3.1.3 The test procedure shall be either according to an equilibrium method or according to a non-equilibrium method.
- 2.3.3.1.4 For the procedure according to an equilibrium method, see:
- (a) International Standard ISO 1516:1981;
  - (b) International Standard ISO 3680:1983;
  - (c) International Standard ISO 1523:1983;
  - (d) International Standard ISO 3679:1983.
- 2.3.3.1.5 The procedure according to a non-equilibrium method shall be:
- (a) for the Abel apparatus, see:
    - (i) British Standard BS 2000 Part 170:1995;
    - (ii) French Standard NF MO7-011:1988;
    - (iii) French Standard NF T66-009:1969;
  - (b) for the Abel-Pensky apparatus, see:
    - (i) German Standard DIN 51755, Part 1:1974 (for temperatures from 5 °C to 65 °C);
    - (ii) German Standard DIN 51755, Part 2:1978 (for temperatures below 5 °C);
    - (iii) French Standard NF MO7-036:1984;
  - (c) for the Tag apparatus, see American Standard ASTM D 56:1993;
  - (d) for the Pensky-Martens apparatus, see:
    - (i) International Standard ISO 2719:1988;
    - (ii) European Standard EN 22719 in each of its national versions (e.g. BS 2000, part 404/EN 22719):1994;
    - (iii) American Standard ASTM D 93:1994;
    - (iv) Institute of Petroleum Standard IP 34:1988.
- 2.3.3.1.6 The test methods listed in 2.3.3.1.4 and 2.3.3.1.5 shall only be used for flash-point ranges which are specified in the individual methods. The possibility of chemical reactions between the substance and the sample holder shall be considered when selecting the method to be used. The apparatus shall, as far as is consistent with safety, be placed in a draught-free position. For safety, a method utilizing a small sample size, around 2 ml, shall be used for organic peroxides and self-reactive substances (also known as "energetic" substances), or for toxic substances.
- 2.3.3.1.7 When the flash-point, determined by a non-equilibrium method in accordance with 2.3.3.1.5 is found to be  $23 \pm 2$  °C or  $60 \pm 2$  °C, it shall be confirmed for each temperature range by an equilibrium method in accordance with 2.3.3.1.4.

2.3.3.1.8 In the event of a dispute as to the classification of a flammable liquid, the classification proposed by the consignor shall be accepted if a check-test of the flash-point, yields a result not differing by more than 2 °C from the limits (23 °C and 60 °C respectively) stated in 2.2.3.1. If the difference is more than 2 °C, a second check-test shall be carried out, and the lowest figure of the flash-points obtained in either check-test shall be adopted.

**2.3.3.2 *Test for determining peroxide content***

To determine the peroxide content of a liquid, the procedure is as follows:

A quantity  $p$  (about 5 g, weighed to the nearest 0.01 g) of the liquid to be titrated is placed in an Erlenmeyer flask; 20 cm<sup>3</sup> of acetic anhydride and about 1 g of powdered solid potassium iodide are added; the flask is shaken and, after 10 minutes, heated for 3 minutes to about 60 °C. When it has been left to cool for 5 minutes, 25 cm<sup>3</sup> of water are added. After this, it is left standing for half an hour, then the liberated iodine is titrated with a decinormal solution of sodium thiosulphate, no indicator being added; complete discoloration indicates the end of the reaction. If  $n$  is the number of cm<sup>3</sup> of thiosulphate solution required, the percentage of peroxide (calculated as H<sub>2</sub>O<sub>2</sub>) present in the sample is obtained by the formula:

$$\frac{17n}{100p}$$

## **2.3.4 Test for determining fluidity**

To determine the fluidity of liquid, viscous or pasty substances and mixtures, the following test method shall be used.

### **2.3.4.1 Test apparatus**

Commercial penetrometer conforming to ISO 2137:1985, with a guide rod of  $47.5 \text{ g} \pm 0.05 \text{ g}$ ; sieve disc of duralumin with conical bores and a mass of  $102.5 \text{ g} \pm 0.05 \text{ g}$  (see Figure 1); penetration vessel with an inside diameter of 72 mm to 80 mm for reception of the sample.

### **2.3.4.2 Test procedure**

The sample is poured into the penetration vessel not less than half an hour before the measurement. The vessel is then hermetically closed and left standing until the measurement. The sample in the hermetically closed penetration vessel is heated to  $35 \text{ }^\circ\text{C} \pm 0.5 \text{ }^\circ\text{C}$  and is placed on the penetrometer table immediately prior to measurement (not more than two minutes). The point S of the sieve disc is then brought into contact with the surface of the liquid and the rate of penetration is measured.

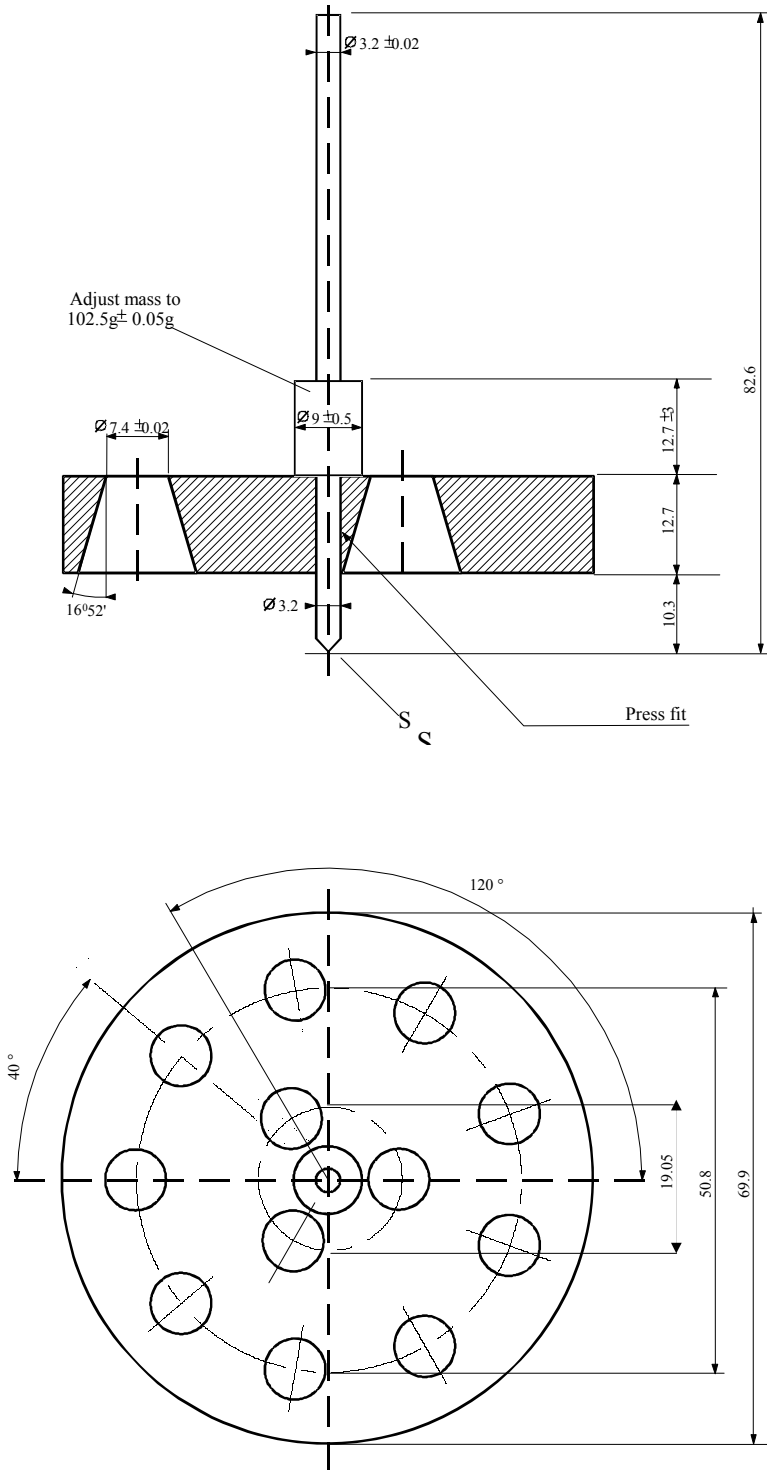
### **2.3.4.3 Evaluation of test results**

A substance is pasty if, after the centre S has been brought into contact with the surface of the sample, the penetration indicated by the dial gauge:

- (a) after a loading time of  $5 \text{ s} \pm 0.1 \text{ s}$ , is less than  $15.0 \text{ mm} \pm 0.3 \text{ mm}$ ; or
- (b) after a loading time of  $5 \text{ s} \pm 0.1 \text{ s}$ , is greater than  $15.0 \text{ mm} \pm 0.3 \text{ mm}$ , but the additional penetration after another  $55 \text{ s} \pm 0.5 \text{ s}$  is less than  $5.0 \text{ mm} \pm 0.5 \text{ mm}$ .

*NOTE: In the case of samples having a flow point, it is often impossible to produce a steady level surface in the penetration vessel and, hence, to establish satisfactory initial measuring conditions for the contact of the point S. Furthermore, with some samples, the impact of the sieve disc can cause an elastic deformation of the surface and, in the first few seconds, simulate a deeper penetration. In all these cases, it may be appropriate to make the evaluation in paragraph (b) above.*

Figure 1 – Penetrometer



Tolerances not specified are  $\pm 0.1$  mm.



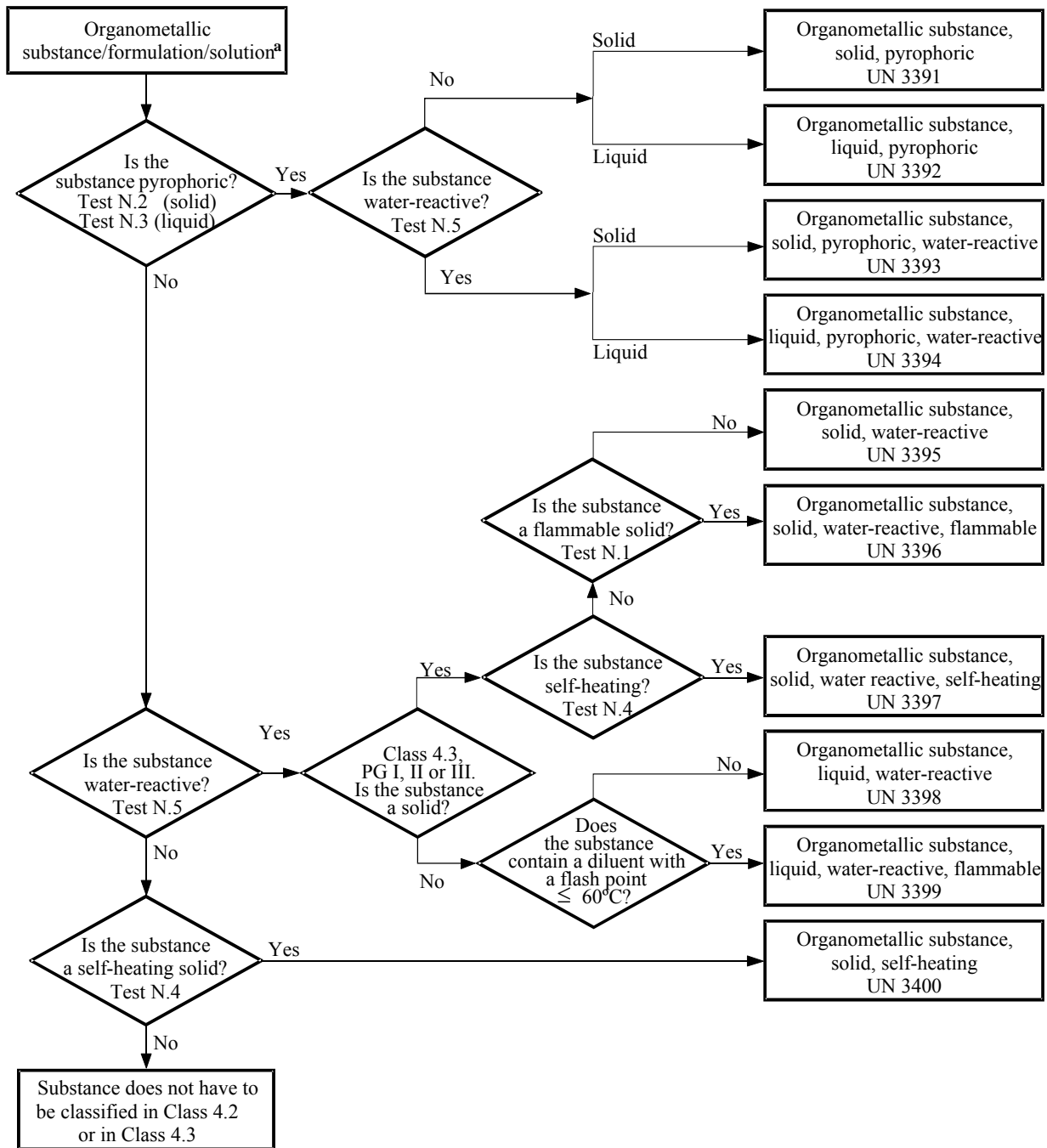
### **2.3.5 Classification of organometallic substances in Classes 4.2 and 4.3**

Depending on their properties as determined in accordance with tests N.1 to N.5 of the Manual of Tests and Criteria, Part III, section 33, organometallic substances may be classified in Classes 4.2 or 4.3, as appropriate, in accordance with the flowchart scheme given in Figure 2.3.5.

**NOTE 1:** *Depending on their other properties and on the precedence of hazard table (see 2.1.3.10), organometallic substances may have to be classified in other classes as appropriate.*

**NOTE 2:** *Flammable solutions with organometallic compounds in concentrations which are not liable to spontaneous combustion or, in contact with water, do not emit flammable gases in dangerous quantities, are substances of Class 3.*

**Figure 2.3.5 Flowchart scheme for the classification of organometallic substances in Classes 4.2 and 4.3<sup>b</sup>**



<sup>a</sup> If applicable and testing is relevant, taking into account reactivity properties, class 6.1 and 8 properties should be considered according to the precedence of hazard table of 2.1.3.10.

<sup>b</sup> Test methods N.1 to N.5 can be found in the Manual of Tests and Criteria, Part III, Section 33.

## CHAPTER 2.4

### CRITERIA FOR SUBSTANCES HAZARDOUS TO THE AQUATIC ENVIRONMENT

#### 2.4.1 General definitions

2.4.1.1 Environmentally hazardous substances include, inter alia, liquid or solid substances pollutant to the aquatic environment and solutions and mixtures of such substances (such as preparations and wastes). For the purposes of this Chapter, 'substance' means chemical elements and their compounds in the natural state or obtained by any production process, including any additive necessary to preserve the stability of the product and any impurities deriving from the process used, but excluding any solvent which may be separated without affecting the stability of the substance or changing its composition.

2.4.1.2 The aquatic environment may be considered in terms of the aquatic organisms that live in the water, and the aquatic ecosystem of which they are part.<sup>1</sup> The basis, therefore, of the identification of hazard is the aquatic toxicity of the substance or mixture, although this may be modified by further information on the degradation and bioaccumulation behaviour.

2.4.1.3 While the following classification procedure is intended to apply to all substances and mixtures, it is recognized that in some cases, e.g. metals or poorly soluble inorganic compounds, special guidance will be necessary.<sup>2</sup>

2.4.1.4 The following definitions apply for acronyms or terms used in this section:

- BCF: Bioconcentration Factor;
- BOD: Biochemical Oxygen Demand;
- COD: Chemical Oxygen Demand;
- GLP: Good Laboratory Practices;
- EC<sub>50</sub>: the effective concentration of substance that causes 50% of the maximum response;
- ErC<sub>50</sub>: EC<sub>50</sub> in terms of reduction of growth;
- K<sub>ow</sub>: octanol/water partition coefficient;
- LC<sub>50</sub> (50% lethal concentration): the concentration of a substance in water which causes the death of 50% (one half) in a group of test animals;
- L(E)C<sub>50</sub>: LC<sub>50</sub> or EC<sub>50</sub>;
- NOEC: No Observed Effect Concentration;
- OECD Test Guidelines: test guidelines published by the Organisation for Economic Co-operation and Development (OECD).

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<sup>1</sup> This does not address aquatic pollutants for which there may be a need to consider effects beyond the aquatic environment such as the impacts on human health, etc

<sup>2</sup> See annex 10 of GHS.

## 2.4.2 Definitions and data requirements

2.4.2.1 The basic elements for classification of environmentally hazardous substances (aquatic environment) are as follows:

- Acute aquatic toxicity;
- Potential for or actual bioaccumulation;
- Degradation (biotic or abiotic) for organic chemicals; and
- Chronic aquatic toxicity.

2.4.2.2 While data from internationally harmonized test methods are preferred, in practice, data from national methods may also be used where they are considered as equivalent. In general, it has been agreed that freshwater and marine species toxicity data can be considered as equivalent data and are preferably to be derived using OECD Test Guidelines or equivalent according to the principles of Good Laboratory Practices (GLP). Where such data are not available, classification should be based on the best available data.

2.4.2.3 **Acute aquatic toxicity** shall normally be determined using a fish 96-hour LC<sub>50</sub> (OECD Test Guideline 203 or equivalent), a crustacea species 48-hour EC<sub>50</sub> (OECD Test Guideline 202 or equivalent) and/or an algal species 72- or 96-hour EC<sub>50</sub> (OECD Test Guideline 201 or equivalent). These species are considered as surrogate for all aquatic organisms, and data on other species such as Lemna may also be considered if the test methodology is suitable.

2.4.2.4 **Bioaccumulation** means net result of uptake, transformation and elimination of a substance in an organism due to all routes of exposure (i.e. air, water, sediment/soil and food).

The **potential for bioaccumulation** shall normally be determined by using the octanol/water partition coefficient, usually reported as a log K<sub>ow</sub> determined by OECD Test Guideline 107 or 117. While this represents a potential to bioaccumulate, an experimentally determined Bioconcentration Factor (BCF) provides a better measure and should be used in preference when available. A BCF should be determined according to OECD Test Guideline 305.

2.4.2.5 **Environmental degradation** may be biotic or abiotic (e.g. hydrolysis) and the criteria reflect this fact. Ready biodegradation can most easily be defined using the OECD biodegradability tests, OECD Test Guideline 301 (A - F). A pass level in these tests can be considered as indicative of rapid degradation in most environments. These are freshwater tests and thus the use of the results from OECD Test Guideline 306, which is more suitable for marine environments, has also been included. Where such data are not available, a BOD<sub>5</sub> (5 days)/COD ratio  $\geq 0.5$  is considered as indicative of rapid degradation. Abiotic degradation such as hydrolysis, primary degradation, both abiotic and biotic, degradation in non-aquatic media and proven rapid degradation in the environment may all be considered in defining rapid degradability.<sup>3</sup>

Substances shall be considered rapidly degradable in the environment if the following criteria are met:

- (a) In 28-day ready biodegradation studies, the following levels of degradation are achieved:
  - (i) Tests based on dissolved organic carbon: 70%;

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<sup>3</sup> *Special guidance on data interpretation is provided in Chapter 4.1 and Annex 9 to GHS.*

- (ii) Tests based on oxygen depletion or carbon dioxide generation: 60% of theoretical maxima;

These levels of biodegradation shall be achieved within 10 days of the start of degradation, which point is taken as the time when 10% of the substance has been degraded; or

- (b) In those cases where only BOD and COD data are available, when the ratio of BOD<sub>5</sub>/COD is  $\geq 0.5$ ; or
- (c) If other convincing scientific evidence is available to demonstrate that the substance or mixture can be degraded (biotically and/or abiotically) in the aquatic environment to a level above 70% within a 28-day period.

2.4.2.6 **Chronic toxicity** data are less available than acute data and the range of testing procedures less standardized. Data generated according to OECD Test Guidelines 210 (Fish Early Life Stage) or 211 (Daphnia Reproduction) and 201 (Algal Growth Inhibition) can be accepted. Other validated and internationally accepted tests could also be used. The No Observed Effect Concentrations (NOECs) or other equivalent L(E)Cx should be used.

### 2.4.3 Classification categories and criteria for substances

*NOTE: Chronic Category 4 of Chapter 4.1 of GHS is reproduced in this section for information, although it is not relevant in the context of ADN.*

2.4.3.1 The following substances shall be considered to be environmentally hazardous (aquatic environment):

- (a) For carriage in packages, substances which meet the criteria for Acute 1, Chronic 1 or Chronic 2, according to the tables below; and
- (b) For carriage in tank vessels, substances which meet the criteria for Acute 1, Acute 2 or Acute 3, or Chronic 1, Chronic 2 or Chronic 3, according to the tables below.

#### Acute toxicity

| <b>Category: Acute 1</b>  |                      |
|---|----------------------|
| 96 hr LC <sub>50</sub> (for fish)                                 | $\leq 1$ mg/l and/or |
| 48 hr EC <sub>50</sub> (for crustacea)                            | $\leq 1$ mg/l and/or |
| 72 or 96 hr ErC <sub>50</sub> (for algae or other aquatic plants) | $\leq 1$ mg/l        |

| <b>Category: Acute 2</b>  |                            |
|---|----------------------------|
| 96 hr LC <sub>50</sub> (for fish)                                 | $>1 - \leq 10$ mg/l and/or |
| 48 hr EC <sub>50</sub> (for crustacea)                            | $>1 - \leq 10$ mg/l and/or |
| 72 or 96 hr ErC <sub>50</sub> (for algae or other aquatic plants) | $>1 - \leq 10$ mg/l        |

| <b>Category: Acute 3</b>  |                              |
|---|------------------------------|
| 96 hr LC <sub>50</sub> (for fish)                                 | $>10 - \leq 100$ mg/l and/or |
| 48 hr EC <sub>50</sub> (for crustacea)                            | $>10 - \leq 100$ mg/l and/or |
| 72 or 96 hr ErC <sub>50</sub> (for algae or other aquatic plants) | $>10 - \leq 100$ mg/l        |

**Chronic toxicity****Category: Chronic 1**

|   |                 |
|---|-----------------|
| 96 hr LC <sub>50</sub> (for fish)   | ≤ 1 mg/l and/or |
| 48 hr EC <sub>50</sub> (for crustacea)  | ≤ 1 mg/l and/or |
| 72 or 96 hr ErC <sub>50</sub> (for algae or other aquatic plants)   | ≤ 1 mg/l        |
| and the substance is not rapidly degradable and/or the log K <sub>ow</sub> ≥ 4 (unless the experimentally determined BCF <500). |                 |

**Category: Chronic 2**

|   |                         |
|---|-------------------------|
| 96 hr LC <sub>50</sub> (for fish)   | > 1 to ≤ 10 mg/l and/or |
| 48 hr EC <sub>50</sub> (for crustacea)  | > 1 to ≤ 10 mg/l and/or |
| 72 or 96 hr ErC <sub>50</sub> (for algae or other aquatic plants)   | > 1 to ≤ 10 mg/l        |
| and the substance is not rapidly degradable and/or the log K <sub>ow</sub> ≥ 4 (unless the experimentally determined BCF <500), unless the chronic toxicity NOECs are > 1 mg/l. |                         |

**Category: Chronic 3**

|   |                           |
|---|---------------------------|
| 96 hr LC <sub>50</sub> (for fish)   | > 10 to ≤ 100 mg/l and/or |
| 48 hr EC <sub>50</sub> (for crustacea)  | > 10 to ≤ 100 mg/l and/or |
| 72 or 96 hr ErC <sub>50</sub> (for algae or other aquatic plants)   | ≥ 10 to ≤ 100 mg/l        |
| and the substance is not rapidly degradable and/or the log K <sub>ow</sub> ≥ 4 (unless the experimentally determined BCF <500), unless the chronic toxicity NOECs are > 1 mg/l. |                           |

**Category: Chronic 4**

Poorly soluble substances for which no acute toxicity is recorded at levels up to the water solubility, and which are not rapidly degradable and have a log K<sub>ow</sub> ≥ 4, indicating a potential to bioaccumulate, will be classified in this category unless other scientific evidence exists showing classification to be unnecessary. Such evidence would include an experimentally determined BCF < 500, or chronic toxicity NOECs > 1 mg/l, or evidence of rapid degradation in the environment.

Substances which come under Chronic Category 4 alone are not considered to be environmentally hazardous in the sense of ADN.

**2.4.4 Classification categories and criteria for mixtures**

*NOTE: Chronic Category 4 of Chapter 4.1 of GHS is reproduced in this section for information, although it is not relevant in the context of ADN.*

2.4.4.1 The classification system for mixtures covers all classification categories which are used for substances, meaning Acute Categories 1 to 3 and Chronic Categories 1 to 4. In order to make use of all available data for purposes of classifying the aquatic environmental hazards of the mixture, the following assumption has been made and is applied where appropriate.

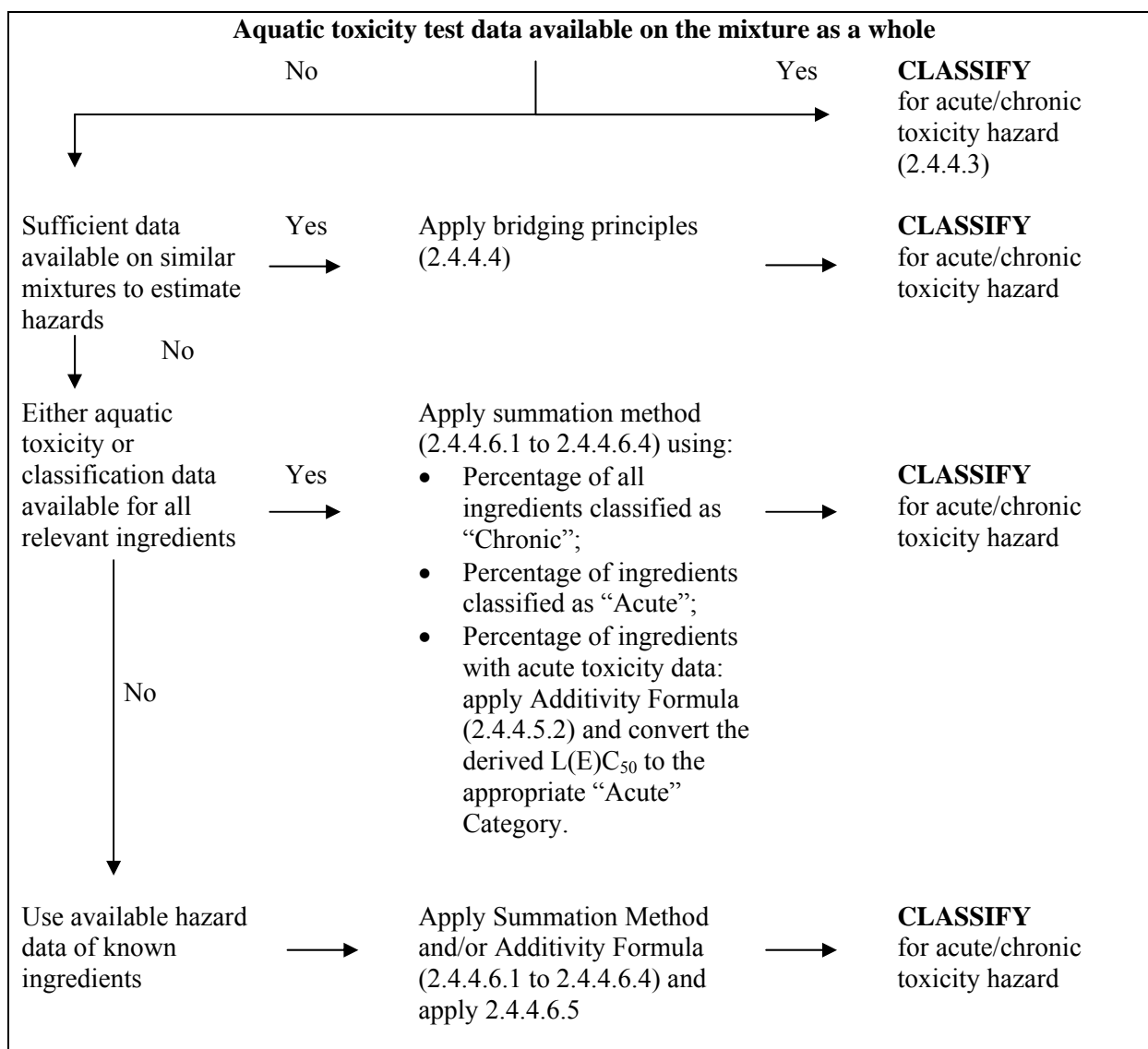
The 'relevant ingredients' of a mixture are those which are present in a concentration of 1% (mass) or greater, unless there is a presumption (e.g. in the case of highly toxic ingredients) that an ingredient present at less than 1% can still be relevant for classifying the mixture for aquatic environmental hazards.

2.4.4.2 The approach for classification of aquatic environmental hazards is tiered and is dependent upon the type of information available for the mixture itself and for its ingredients. Elements of the tiered approach include:

- (a) Classification based on tested mixtures;  
 (b) Classification based on bridging principles,  
 (c) Use of ‘summation of classified ingredients’ and/or an ‘additivity formula’.

Figure 2.4.4.2 outlines the process to be followed.

**Figure 2.4.4.2: Tiered approach to classification of mixtures for acute and chronic environmental hazards**



### 2.4.4.3 *Classification of mixtures when data are available for the complete mixture*

#### 2.4.4.3.1

When the mixture as a whole has been tested to determine its aquatic toxicity, it can be classified according to the criteria that have been agreed for substances, but only for acute toxicity. The classification shall be based on the data for fish, crustacea, algae and plants. Classification of mixtures by using LC<sub>50</sub>, EC<sub>50</sub> or ErC<sub>50</sub> data for the mixture as a whole is not possible for chronic categories since both toxicity data and environmental fate data are needed, and there are no degradability and bioaccumulation data for mixtures as a whole. It is not possible to apply the criteria for chronic classification because the data from degradability

and bioaccumulation tests of mixtures cannot be interpreted; they are meaningful only for single substances.

2.4.4.3.2 When there are acute toxicity test data ( $LC_{50}$  or  $EC_{50}$ ) available for the mixture as a whole, these data as well as information with respect to the classification of ingredients for chronic toxicity shall be used to complete the classification for tested mixtures as follows. When chronic (long-term) toxicity data (NOEC) are also available, these should be used as well.

- (a)  $L(E)C_{50}$  ( $LC_{50}$  or  $EC_{50}$ ) of the tested mixture  $\leq 100$  mg/l and NOEC of the tested mixture  $\leq 1.0$  mg/l or unknown:
  - (i) Classify mixture as Category Acute 1, 2 or 3;
  - (ii) Apply summation of classified ingredients approach (see 2.4.4.6) for chronic classification (Chronic 1 to 4 or no need for chronic classification);
- (b)  $L(E)C_{50}$  of the tested mixture  $\leq 100$  mg/l and NOEC of the tested mixture  $\square 1.0$  mg/l:
  - (i) Classify mixture as Category Acute 1, 2 or 3;
  - (ii) Apply summation of classified ingredients approach (see 2.4.4.6) for classification as Category Chronic 1. If the mixture is not classified as Category Chronic 1, then there is no need for chronic classification;
- (c)  $L(E)C_{50}$  of the tested mixture  $\square 100$  mg/l, or above the water solubility, and NOEC of the tested mixture  $\leq 1.0$  mg/l or unknown:
  - (i) No need to classify for acute toxicity hazard;
  - (ii) Apply summation of classified ingredients approach (see 2.4.4.6) for chronic classification (Chronic 4 or no need for chronic classification);
- (d)  $L(E)C_{50}$  of the tested mixture  $>100$  mg/l, or above the water solubility, and NOEC of the tested mixture  $> 1.0$  mg/l:
  - No need to classify for acute or chronic toxicity hazard.

#### **2.4.4.4** *Classification of mixtures when data are not available for the complete mixture: bridging principles*

2.4.4.4.1 Where the mixture itself has not been tested to determine its aquatic environmental hazard, but there are sufficient data on the individual ingredients and similar tested mixtures to adequately characterize the hazards of the mixture, these data shall be used in accordance with the following agreed bridging rules. This ensures that the classification process uses the available data to the greatest extent possible in characterizing the hazards of the mixture without the necessity for additional testing in animals.

##### **2.4.4.4.2** *Dilution*

2.4.4.4.2.1 If a mixture is formed by diluting another classified mixture or a substance with a diluent which has an equivalent or lower aquatic hazard classification than the least toxic original ingredient and which is not expected to affect the aquatic hazards of other ingredients, then the mixture will be classified as equivalent to the original mixture or substance.



2.4.4.4.2.2 If a mixture is formed by diluting another classified mixture or a substance with water or other totally non-toxic material, the toxicity of the mixture shall be calculated from the original mixture or substance.

2.4.4.4.3 *Batching*

The aquatic hazard classification of one production batch of a complex mixture can be assumed to be substantially equivalent to that of another production batch of the same commercial product and produced by or under the control of the same manufacturer, unless there is reason to believe there is significant variation such that the aquatic hazard classification of the batch has changed. If the latter occurs, new classification is necessary.

2.4.4.4.4 *Concentration of mixtures which are classified with the most severe classification categories (Chronic 1 and Acute 1)*

If a mixture is classified as Chronic 1 and/or Acute 1, and ingredients of the mixture which are classified as Chronic 1 and/or Acute 1 are further concentrated, the more concentrated mixture shall be classified with the same classification category as the original mixture without additional testing.

2.4.4.4.5 *Interpolation within one toxicity category*

If mixtures A and B are in the same classification category and mixture C is made in which the toxicologically active ingredients have concentrations intermediate to those in mixtures A and B, then mixture C shall be in the same category as A and B. Note that the identity of the ingredients is the same in all three mixtures.

2.4.4.4.6 *Substantially similar mixtures*

Given the following:

(a) Two mixtures:

(i) A + B;

(ii) C + B;

(b) The concentration of ingredient B is the same in both mixtures;

(c) The concentration of ingredient A in mixture (i) equals that of ingredient C in mixture (ii);

(d) Classifications for A and C are available and are the same, i.e. they are in the same hazard category and are not expected to affect the aquatic toxicity of B.

Then there is no need to test mixture (ii) if mixture (i) is already characterized by testing and both mixtures are classified in the same category.

2.4.4.5 *Classification of mixtures when data are available for all ingredients or only for some ingredients of the mixture*

2.4.4.5.1 The classification of a mixture is based on summation of the concentrations of its classified ingredients. The percentage of ingredients classified as 'Acute' or 'Chronic' will feed straight into the summation method. Details of the summation method are described in 2.4.4.6.1 to 2.4.4.6.4.

- 2.4.4.5.2 Mixtures can be made of a combination of both ingredients that are classified (as Acute 1 to 3 and/or Chronic 1 to 4) and those for which adequate test data are available. When adequate toxicity data are available for more than one ingredient in the mixture, the combined toxicity of those ingredients may be calculated using the following additivity formula, and the calculated toxicity may be used to assign that portion of the mixture an acute hazard category, which is then subsequently used in applying the summation method.

$$\frac{\sum C_i}{L(E)C_{50m}} = \sum_n \frac{C_i}{L(E)C_{50i}}$$

where:

$C_i$  = concentration of ingredient i (weight percentage)

$L(E)C_{50i}$  =  $LC_{50}$  or  $EC_{50}$  (in mg/l) for ingredient i

$N$  = number of ingredients, and i is running from 1 to n

$L(E)C_{50m}$  =  $L(E)C_{50}$  of the part of the mixture with test data

- 2.4.4.5.3 When applying the additivity formula for part of the mixture, it is preferable to calculate the toxicity of this part of the mixture using for each substance toxicity values that relate to the same species (i.e. fish, daphnia or algae) and then to use the highest toxicity (lowest value) obtained (i.e. use the most sensitive of the three species). However, when toxicity data for each ingredient are not available in the same species, the toxicity value of each ingredient shall be selected in the same manner that toxicity values are selected for the classification of substances, i.e. the highest toxicity (from the most sensitive test organism) is used. The calculated acute toxicity may then be used to classify this part of the mixture as Acute 1, 2 or 3 using the same criteria described for substances.

- 2.4.4.5.4 If a mixture is classified in more than one way, the method yielding the more conservative result shall be used.

#### **2.4.4.6 *Summation method***

##### **2.4.4.6.1 *Classification procedures***

In general, a more severe classification for mixtures overrides a less severe classification, e.g. a classification with Chronic 1 overrides a classification with Chronic 2. As a consequence, the classification procedure is already completed if the result of the classification is Chronic 1. A more severe classification than Chronic 1 is not possible; therefore, it is not necessary to pursue the classification procedure further.

##### **2.4.4.6.2 *Classification for Acute Categories 1, 2 and 3***

- 2.4.4.6.2.1 First, all ingredients classified as Acute 1 shall be considered. If the sum of these ingredients is  $\geq 25\%$ , the whole mixture is classified as Acute 1. If the result of the calculation is a classification of the mixture as Acute 1, the classification process is completed.

- 2.4.4.6.2.2 In cases where the mixture is not classified as Acute 1, classification of the mixture as Acute 2 shall be considered. A mixture is classified as Acute 2 if 10 times the sum of all ingredients classified as Acute 1 plus the sum of all ingredients classified as Acute 2 is  $\geq 25\%$ . If the result of the calculation is classification of the mixture as Acute 2, the classification process is completed.

- 2.4.4.6.2.3 In cases where the mixture is not classified either as Acute 1 or Acute 2, classification of the mixture as Acute 3 shall be considered. A mixture is classified as Acute 3 if 100 times the sum of all ingredients classified as Acute 1 plus 10 times the sum of all ingredients classified as Acute 2 plus the sum of all ingredients classified as Acute 3 is  $\geq 25\%$ .
- 2.4.4.6.2.4 The classification of mixtures for acute hazards based on this summation of classified ingredients is summarized in Table 2.4.4.6.2.4.

**Table 2.4.4.6.2.4: Classification of a mixture for acute hazards based on summation of classified ingredients**

| Sum of ingredients classified as:  | Mixture is classified as: |
|--|---------------------------|
| $\text{Acute 1} \times M^a \geq 25\%$  | Acute 1                   |
| $(M \times 10 \times \text{Acute 1}) + \text{Acute 2} \geq 25\%$                               | Acute 2                   |
| $(M \times 100 \times \text{Acute 1}) + (10 \times \text{Acute 2}) + \text{Acute 3} \geq 25\%$ | Acute 3                   |

<sup>a</sup> For explanation of the M factor, see 2.4.4.6.4.

- 2.4.4.6.3 *Classification for Chronic Categories 1, 2, 3 and 4*
- 2.4.4.6.3.1 First, all ingredients classified as Chronic 1 are considered. If the sum of these ingredients is  $\geq 25\%$ , the mixture shall be classified as Chronic 1. If the result of the calculation is a classification of the mixture as Chronic 1, the classification procedure is completed.
- 2.4.4.6.3.2 In cases where the mixture is not classified as Chronic 1, classification of the mixture as Chronic 2 shall be considered. A mixture is classified as Chronic 2 if 10 times the sum of all ingredients classified as Chronic 1 plus the sum of all ingredients classified as Chronic 2 is  $\geq 25\%$ . If the result of the calculation is classification of the mixture as Chronic 2, the classification process is completed.
- 2.4.4.6.3.3 In cases where the mixture is not classified either as Chronic 1 or Chronic 2, classification of the mixture as Chronic 3 shall be considered. A mixture is classified as Chronic 3 if 100 times the sum of all ingredients classified as Chronic 1 plus 10 times the sum of all ingredients classified as Chronic 2 plus the sum of all ingredients classified as Chronic 3 is  $\geq 25\%$ .
- 2.4.4.6.3.4 If the mixture is still not classified in Category Chronic 1, 2 or 3, classification of the mixture as Chronic 4 need not be considered for the purposes of ADN. A mixture is classified as Chronic 4 if the sum of the percentages of ingredients classified as Chronic 1, 2, 3 and 4 is  $\geq 25\%$ .
- 2.4.4.6.3.5 The classification of mixtures for chronic hazards based on this summation of classified ingredients is summarized in Table 2.4.4.6.3.4.

**Table 2.4.4.6.3.4: Classification of a mixture for chronic hazards based on summation of classified ingredients**

| Sum of ingredients classified as:  | Mixture is classified as: |
|--|---------------------------|
| $\text{Chronic 1} \times M^a \geq 25\%$  | Chronic 1                 |
| $(M \times 10 \times \text{Chronic 1}) + \text{Chronic 2} \geq 25\%$                                 | Chronic 2                 |
| $(M \times 100 \times \text{Chronic 1}) + (10 \times \text{Chronic 2}) + \text{Chronic 3} \geq 25\%$ | Chronic 3                 |
| $\text{Chronic 1} + \text{Chronic 2} + \text{Chronic 3} + \text{Chronic 4} \geq 25\%$                | Chronic 4                 |

<sup>a</sup> For explanation of the M factor, see 2.4.4.6.4.

2.4.4.6.4 *Mixtures with highly toxic ingredients*

Acute Category 1 ingredients with toxicities well below 1 mg/l may influence the toxicity of the mixture and shall be given increased weight in applying the summation method. When a mixture contains ingredients classified as Acute or Chronic 1, the tiered approach described in 2.4.4.6.2 and 2.4.4.6.3 shall be applied using a weighted sum by multiplying the concentrations of Acute 1 ingredients by a factor, instead of merely adding up the percentages. This means that the concentration of “Acute 1” in the left column of Table 2.4.4.6.2.4 and the concentration of “Chronic 1” in the left column of Table 2.4.4.6.3.4 are multiplied by the appropriate multiplying factor. The multiplying factors to be applied to these ingredients are defined using the toxicity value, as summarized in Table 2.4.4.6.4 below. Therefore, in order to classify a mixture containing Acute/Chronic 1 ingredients, the classifier needs to be informed of the value of the M factor in order to apply the summation method. Alternatively, the additivity formula (see 2.4.4.5.2) may be used when toxicity data are available for all highly toxic ingredients in the mixture and there is convincing evidence that all other ingredients, including those for which specific acute toxicity data are not available, are of low or no toxicity and do not significantly contribute to the environmental hazard of the mixture.

**Table 2.4.4.6.4 Multiplying factors for highly toxic ingredients of mixtures**

| L(E)C <sub>50</sub> value              | Multiplying factor (M) |
|--|------------------------|
| 0.1 < L(E)C <sub>50</sub> ≤ 1          | 1                      |
| 0.01 < L(E)C <sub>50</sub> ≤ 0.1       | 10                     |
| 0.001 < L(E)C <sub>50</sub> ≤ 0.01     | 100                    |
| 0.0001 < L(E)C <sub>50</sub> ≤ 0.001   | 1 000                  |
| 0.00001 < L(E)C <sub>50</sub> ≤ 0.0001 | 10 000                 |
| (continue in factor 10 intervals)      |                        |

2.4.4.6.5 *Classification of mixtures with ingredients without any useable information*

In the event that no useable information on acute and/or chronic aquatic hazard is available for one or more relevant ingredients, it is concluded that the mixture cannot be attributed (a) definitive hazard category(ies). In this situation, the mixture shall be classified based on the known ingredients only, with the additional statement that: “×% of the mixture consists of (a) ingredient(s) of unknown hazards to the aquatic environment”.

## **PART 3**

# **Dangerous goods list, special provisions and exemptions related to limited and excepted quantities**



## CHAPTER 3.1

### GENERAL

#### 3.1.1 Introduction

In addition to the provisions referred to or given in the tables of this Part, the general requirements of each Part, Chapter and/or Section are to be observed. These general requirements are not given in the tables. When a general requirement is contradictory to a special provision, the special provision prevails.

#### 3.1.2 Proper shipping name

*NOTE: For proper shipping names used for the carriage of samples, see 2.1.4.1.*

3.1.2.1 The proper shipping name is that portion of the entry most accurately describing the goods in Table A or Table C in Chapter 3.2, which is shown in upper case characters (plus any numbers, Greek letters, "sec", "tert", and the letters "m", "n", "o", "p", which form an integral part of the name). Particulars concerning the vapour pressure (vp) and the boiling point (bp) in column (2) of Table C in chapter 3.2 are part of the proper shipping name. An alternative proper shipping name may be shown in brackets following the main proper shipping name. In Table A, it is shown in upper case characters (e.g., ETHANOL (ETHYL ALCOHOL)). In Table C, it is shown in lower case characters (e.g. ACETONITRILE (methyl cyanide)). Portions of an entry appearing in lower case need not be considered as part of the proper shipping name unless otherwise stated above.

3.1.2.2 When conjunctions such as "and" or "or" are in lower case or when segments of the name are punctuated by commas, the entire name of the entry need not necessarily be shown in the transport document or package markings. This is the case particularly when a combination of several distinct entries are listed under a single UN Number. Examples illustrating the selection of the proper shipping name for such entries are:

- (a) UN 1057 LIGHTERS or LIGHTER REFILLS - The proper shipping name is the most appropriate of the following possible combinations:

LIGHTERS  
LIGHTER REFILLS;

- (b) UN 2793 FERROUS METAL BORINGS, SHAVINGS, TURNINGS or CUTTINGS in a form liable to self-heating. The proper shipping name is the most appropriate of the following combinations:

FERROUS METAL BORINGS  
  
FERROUS METAL SHAVINGS  
  
FERROUS METAL TURNINGS  
  
FERROUS METAL CUTTINGS.

3.1.2.3 Proper shipping names may be used in the singular or plural as appropriate. In addition, when qualifying words are used as part of the proper shipping name, their sequence on documentation or package markings is optional. For instance, "DIMETHYLAMINE AQUEOUS SOLUTION" may alternatively be shown "AQUEOUS SOLUTION OF DIMETHYLAMINE". Commercial or military names for goods of Class 1 which contain the proper shipping name supplemented by additional descriptive text may be used.

3.1.2.4 Many substances have an entry for both the liquid and solid state (see definitions for liquid and solid in 1.2.1), or for the solid and solution. These are allocated separate UN numbers which are not necessarily adjacent to each other<sup>1</sup>.

3.1.2.5 Unless it is already included in capital letters in the name indicated in Table A or Table C in Chapter 3.2, the qualifying word "MOLTEN" shall be added as part of the proper shipping name when a substance, which is a solid in accordance with the definition in 1.2.1, is offered for carriage in the molten state (e.g. ALKYLPHENOL, SOLID, N.O.S., MOLTEN).

3.1.2.6 Except for self-reactive substances and organic peroxides and unless it is already included in capital letters in the name indicated in Column (2) of Table A of Chapter 3.2, the word "STABILIZED" shall be added as part of the proper shipping name of a substance which without stabilization would be forbidden from carriage in accordance with paragraphs 2.2.X.2 due to it being liable to dangerously react under conditions normally encountered in carriage (e.g.: "TOXIC LIQUID, ORGANIC, N.O.S., STABILIZED").

When temperature control is used to stabilize such substances to prevent the development of any dangerous excess pressure, then:

- (a) For liquids: (see 3.1.2.6 of ADR);
- (b) For gases: the conditions of carriage shall be approved by the competent authority.

3.1.2.7 Hydrates may be carried under the proper shipping name for the anhydrous substance.

### **3.1.2.8 *Generic or "not otherwise specified" (N.O.S.) names***

3.1.2.8.1 Generic and "not otherwise specified" proper shipping names that are assigned to special provision 274 in Column (6) of Table A in Chapter 3.2 or remark 27 in column (20) of Table C in Chapter 3.2 shall be supplemented with the technical name of the goods unless a national law or international convention prohibits its disclosure if it is a controlled substance. For explosive substances and articles of Class 1, the dangerous goods description may be supplemented by additional descriptive text to indicate commercial or military names. Technical names shall be entered in brackets immediately following the proper shipping name. An appropriate modifier, such as "contains" or "containing" or other qualifying words such as "mixture", "solution", etc. and the percentage of the technical constituent may also be used. For example: "UN 1993 FLAMMABLE LIQUID, N.O.S. (CONTAINS XYLENE AND BENZENE), 3, II".

3.1.2.8.1.1 The technical name shall be a recognized chemical name, if relevant a biological name, or other name currently used in scientific and technical handbooks, journals and texts. Trade names shall not be used for this purpose. In the case of pesticides, only ISO common name(s), other name(s) in the World Health Organization (WHO) Recommended Classification of Pesticides by Hazard and Guidelines to Classification, or the name(s) of the active substance(s) may be used.

3.1.2.8.1.2 When a mixture of dangerous goods is described by one of the "N.O.S." or "generic" entries to which special provision 274 has been allocated in Column (6) of Table A in Chapter 3.2, or remark 27 has been allocated in column (20) of Table C in Chapter 3.2, not more than the two constituents which most predominantly contribute to the hazard or hazards of a mixture need to be shown, excluding controlled substances when their disclosure is prohibited by

<sup>1</sup> Details are provided in the alphabetical index (Table B of Chapter 3.2), e.g.:

|                      |     |      |
|----------------------|-----|------|
| NITROXYLENES, LIQUID | 6.1 | 1665 |
| NITROXYLENES, SOLID  | 6.1 | 3447 |



national law or international convention. If a package containing a mixture is labelled with any subsidiary risk label, one of the two technical names shown in parentheses shall be the name of the constituent which compels the use of the subsidiary risk label.

**NOTE:** see 5.4.1.2.2.

- 3.1.2.8.1.3 Examples illustrating the selection of the proper shipping name supplemented with the technical name of goods for such N.O.S. entries are:

UN 2902 PESTICIDE, LIQUID, TOXIC, N.O.S. (drazoxolon);

UN 3394 ORGANOMETALLIC SUBSTANCE, LIQUID, PYROPHORIC, WATER-REACTIVE (trimethylgallium).

- 3.1.2.8.1.4 Examples illustrating how the proper shipping name is supplemented in the indication of the vapour pressure or the boiling-point for N.O.S entries for carriage in tank vessels are:

UN 1268 PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S.,  
110 kPa < pv50 ≤ 150 kpa;

UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONE with more than 10% BENZENE),  
pv 50 ≤ 110 kPa, 85° C < bp ≤ 115° C.

### **3.1.2.9** *Mixtures and solutions containing one dangerous substance*

When mixtures and solutions have to be regarded as the dangerous substance mentioned by name in accordance with the classification requirements of 2.1.3.3, the qualifying word "SOLUTION" or "MIXTURE", as appropriate, shall be added as part of the proper shipping name, e.g. "ACETONE SOLUTION". In addition, the concentration of the solution or mixture may also be indicated, e.g. "ACETONE 75% SOLUTION".



## CHAPTER 3.2

### DANGEROUS GOODS LIST

#### 3.2.1 Table A: List of dangerous goods in numerical order

Explanations concerning Table A:

As a rule, each row of Table A deals with the substance(s) or article(s) covered by a specific UN number or an identification number. However, when substances or articles belonging to the same UN number have different chemical properties, physical properties and/or carriage conditions, several consecutive rows may be used for that UN number or identification number.

Each column of Table A is dedicated to a specific subject as indicated in the explanatory notes below. The intersection of columns and rows (cell) contains information concerning the subject treated in that column, for the substance(s) or article(s) of that row:

- The first four cells identify the substance(s) or article(s) belonging to that row (additional information in that respect may be given by the special provisions referred to in Column (6));
- The following cells give the applicable special provisions, either in the form of complete information or in coded form. The codes cross-refer to detailed information that is to be found in the numbers indicated in the explanatory notes below. An empty cell means either that there is no special provision and that only the general requirements apply, or that the carriage restriction indicated in the explanatory notes is in force.

The applicable general requirements are not referred to in the corresponding cells.

Explanatory notes for each column:

Column (1) “UN number/identification number”.

Contains the UN number or the identification number:

- of the dangerous substance or article if the substance or article has been assigned its own specific UN number or identification number, or
- of the generic or n.o.s. entry to which the dangerous substances or articles not mentioned by name shall be assigned in accordance with the criteria (“decision trees”) of Part 2.

Column (2) “Name and description”

Contains, in upper case characters, the name of the substance or article, if the substance or article has been assigned its own specific UN number or identification number, or of the generic or n.o.s. entry to which it has been assigned in accordance with the criteria (“decision trees”) of Part 2. This name shall be used as the proper shipping name or, when applicable, as part of the proper shipping name (see 3.1.2 for further details on the proper shipping name).

A descriptive text in lower case characters is added after the proper shipping name to clarify the scope of the entry if the classification and/or carriage conditions of the substance or article may be different under certain conditions.

Column (3a) “Class”

Contains the number of the Class, whose heading covers the dangerous substance or article. This Class number is assigned in accordance with the procedures and criteria of Part 2.

Column (3b) “Classification code”

Contains the classification code of the dangerous substance or article.

- For dangerous substances or articles of Class 1, the code consists of a division number and compatibility group letter, which are assigned in accordance with the procedures and criteria of 2.2.1.1.4.
- For dangerous substances or articles of Class 2, the code consists of a number and one or more letters representing the hazardous property group, which are explained in 2.2.2.1.2 and 2.2.2.1.3.
- For dangerous substances or articles of Classes 3, 4.1, 4.2, 4.3, 5.1, 5.2, 6.1, 6.2, 8 and 9, the codes are explained in 2.2.x.1.2.<sup>1</sup>
- Dangerous substances or articles of Class 7 do not have a classification code.

Column (4) “Packing group”

Contains the packing group number(s) (I, II or III) assigned to the dangerous substance. These packing group numbers are assigned on the basis of the procedures and criteria of Part 2. Certain articles and substances are not assigned to packing groups.

Column (5) “Labels”

Contains the model number of the labels/placards (see 5.2.2.2 and 5.3.1.1.7) that have to be affixed to packages, containers, tank-containers, portable tanks, MEGCs, vehicles and wagons. However:

- For substances or articles of Class 7, 7X means label model No. 7A, 7B or 7C as appropriate according to the category (see 5.1.5.3.4 and 5.2.2.1.11.1) or placard No. 7D (see 5.3.1.1.3 and 5.3.1.1.7.2).

The general provisions on labelling/placarding (e.g. number of labels, their location) are to be found in 5.2.2.1 for packages, and in 5.3.1, for containers, tank-containers, MEGCs, portable tanks, vehicles and wagons.

---

<sup>1</sup> *x = the Class number of the dangerous substance or article, without dividing point if applicable.*

***NOTE:** Special provisions, indicated in Column (6), may change the above labelling provisions.*

|             |  |
|-------------|--|
| Column (6)  | “Special provisions”   |
|             | Contains the numeric codes of special provisions that have to be met. These provisions concern a wide array of subjects, mainly connected with the contents of Columns (1) to (5) (e.g. carriage prohibitions, exemptions from certain requirements, explanations concerning the classification of certain forms of the dangerous goods concerned and additional labelling or marking provisions), and are listed in Chapter 3.3 in numerical order. If Column (6) is empty, no special provisions apply to the contents of Columns (1) to (5) for the dangerous goods concerned. Special provisions specific to inland navigation begin at 800.   |
| Column (7a) | “Limited Quantities”   |
|             | Contains an alphanumeric code with the following meaning: <ul style="list-style-type: none"><li>– “LQ0” signifies that no exemption from the provisions of ADN exists for the dangerous goods packed in limited quantities;</li><li>– All the other alphanumeric codes starting with the letters “LQ” signify that the provisions of ADN are not applicable if the conditions indicated in Chapter 3.4 are fulfilled.</li></ul>  |
| Column (7b) | “Excepted Quantities”  |
|             | Contains an alphanumeric code with the following meaning: <ul style="list-style-type: none"><li>– “E0” signifies that no exemption from the provisions of ADN exists for the dangerous goods packed in excepted quantities;</li><li>– All the other alphanumeric codes starting with the letter “E” signify that the provisions of ADN are not applicable if the conditions indicated in Chapter 3.5 are fulfilled.</li></ul>  |
| Column (8)  | “Carriage permitted”   |
|             | This column contains the alphabetic codes concerning the permitted form of carriage in inland navigation vessels.<br><br>If column (8) is empty, the substance or article may only be carried in packages.<br><br>If column (8) contains code “B”, carriage is permitted in packages or in bulk (see 7.1.1.11).<br><br>If column (8) contains code “T”, carriage is permitted in packages and in tank vessels. In the event of carriage in tank vessels, the requirements of Table C are applicable (see 7.2.1.21).<br><br>If “carriage prohibited” appears in column (8), carriage is not permitted.<br><br>If “free” appears in column (8), the substance is not subject to the requirements of ADN. |

|             |   |
|-------------|---|
| Column (9)  | “Equipment required”<br><br>This column contains the alphanumeric codes for the equipment required for the carriage of the dangerous substance or article (see 8.1.5).  |
| Column (10) | “Ventilation”<br><br>This column contains the alphanumeric codes of the special requirements concerning ventilation applicable to carriage with the following meaning: <ul style="list-style-type: none"><li>– alphanumeric codes starting with the letters “VE” mean that special additional conditions are applicable to carriage. These can be found in 7.1.6.12 and establish special requirements.</li></ul>   |
| Column (11) | “Provisions concerning loading, unloading and carriage”<br><br>This column contains the alphanumeric codes of the special requirements applicable to carriage with the following meaning: <ul style="list-style-type: none"><li>– alphanumeric codes starting with the letters “CO”, “ST” and “RA” mean that special additional conditions are applicable to carriage in bulk. These can be found in 7.1.6.11 and establish special requirements.</li><li>– alphanumeric codes starting with the letters “LO” mean that special additional conditions are applicable prior to loading. These can be found in 7.1.6.13 and establish special requirements.</li><li>– alphanumeric codes starting with the letters “HA” mean that special additional conditions are applicable to the handling and stowage of the cargo. These can be found in 7.1.6.14 and establish special requirements.</li><li>– alphanumeric codes starting with the letters “IN” mean that special additional conditions are applicable to the inspection of holds during carriage. These can be found in 7.1.6.16 and establish special requirements.</li></ul> |
| Column (12) | “Number of blue cones/lights”<br><br>This column contains the number of cones/lights which should constitute the marking of the vessel during the carriage of this dangerous substance or article (see 7.1.5).  |
| Column (13) | “Additional requirements/Remarks”<br><br>This column contains additional requirements or observations concerning the carriage of this dangerous substance or article  |

| UN No. or ID No. | Name and description  | Class    | Classification Code | Packing group | Labels    | Special provisions | Limited and excepted quantities |                    | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage                   | Number of blue cones/lights | Remarks    |
|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
|                  |   |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b)       |                    |                    |             |   |                             |            |
| 0004             | 3.1.2 (2)<br>AMMONIUM PICRATE dry or wetted with less than 10% water, by mass         | 2.2 (3a) | 2.2 (3b)<br>1.1D    | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)<br>LQ                | 3.5.1.2 (7b)<br>E0 | 3.2.1 (8)          | 8.1.5 (9)<br>PP    | 7.1.6 (10)  | 7.1.6 (11)<br>LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 7.1.6 (12)<br>3             | 3.2.1 (13) |
| 0005             | CARTRIDGES FOR WEAPONS with bursting charge   | 1        | 1.1F                |               | 1         |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06               | 3                           |            |
| 0006             | CARTRIDGES FOR WEAPONS with bursting charge   | 1        | 1.1E                |               | 1         |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06               | 3                           |            |
| 0007             | CARTRIDGES FOR WEAPONS with bursting charge   | 1        | 1.2F                |               | 1         |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06               | 3                           |            |
| 0009             | AMMUNITION, INCENDIARY with or without burster, expelling charge or propelling charge | 1        | 1.2G                |               | 1         |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06                        | 3                           |            |
| 0010             | AMMUNITION, INCENDIARY with or without burster, expelling charge or propelling charge | 1        | 1.3G                |               | 1         |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06                        | 3                           |            |
| 0012             | CARTRIDGES FOR WEAPONS, INERT PROJECTILE or CARTRIDGES, SMALL ARMS                    | 1        | 1.4S                |               | 1.4       |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06                        | 0                           |            |
| 0014             | CARTRIDGES FOR WEAPONS, BLANK or CARTRIDGES, SMALL ARMS, BLANK                        | 1        | 1.4S                |               | 1.4       |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06                        | 0                           |            |

| UN No. or ID No. | Name and description  | Class    | Classification Code | Packing group | Labels    | Special provisions | Limited and excepted quantities | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage | Number of blue cones/lights | Remarks    |
|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a) 3.5.1.2 (7b)         | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 0015             | AMMUNITION, SMOKE with or without burster, expelling charge or propelling charge                                  | 1        | 1.2G                |               | 1         |                    | LQ E0                           |                    | PP                 |             | LO01 HA01, HA03, HA04, HA05, HA06                     | 3                           |            |
| 0015             | AMMUNITION, SMOKE with or without burster, expelling charge or propelling charge, containing corrosive substances | 1        | 1.2G                |               | 1+8       |                    | LQ E0                           |                    | PP                 |             | LO01 HA01, HA03, HA04, HA05, HA06                     | 3                           |            |
| 0016             | AMMUNITION, SMOKE with or without burster, expelling charge or propelling charge                                  | 1        | 1.3G                |               | 1         |                    | LQ E0                           |                    | PP                 |             | LO01 HA01, HA03, HA04, HA05, HA06                     | 3                           |            |
| 0016             | AMMUNITION, SMOKE with or without burster, expelling charge or propelling charge, containing corrosive substances | 1        | 1.3G                |               | 1+8       |                    | LQ E0                           |                    | PP                 |             | LO01 HA01, HA03, HA04, HA05, HA06                     | 3                           |            |
| 0018             | AMMUNITION, TEAR-PRODUCING with burster, expelling charge or propelling charge                                    | 1        | 1.2G                |               | 1+6,1+8   | 802                | LQ E0                           |                    | PP                 |             | LO01 HA01, HA03, HA04, HA05, HA06                     | 3                           |            |
| 0019             | AMMUNITION, TEAR-PRODUCING with burster, expelling charge or propelling charge                                    | 1        | 1.3G                |               | 1+6,1+8   | 802                | LQ E0                           |                    | PP                 |             | LO01 HA01, HA03, HA04, HA05, HA06                     | 3                           |            |
| 0020             | AMMUNITION, TOXIC with burster, expelling charge or propelling charge   | 1        | 1.2K                |               |           |                    |                                 |                    |                    |             |   |                             |            |
| 0021             | AMMUNITION, TOXIC with burster, expelling charge or propelling charge   | 1        | 1.3K                |               |           |                    |                                 |                    |                    |             |   |                             |            |
| 0027             | BLACK POWDER (GUNPOWDER), granular or as a meal   | 1        | 1.1D                |               | 1         |                    | LQ E0                           |                    | PP                 |             | LO01 HA01, HA02, HA03, HA04, HA05, HA06               | 3                           |            |
| 0028             | BLACK POWDER (GUNPOWDER), COMPRESSED or BLACK POWDER (GUNPOWDER), IN PELLETS                                      | 1        | 1.1D                |               | 1         |                    | LQ E0                           |                    | PP                 |             | LO01 HA01, HA02, HA03, HA04, HA05, HA06               | 3                           |            |

CARRIAGE PROHIBITED

CARRIAGE PROHIBITED



| UN No. or ID No. | Name and description                               | Class    | Classification Code | Packing group | Labels    | Special provisions | Limited and excepted quantities |                    | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage     |                 | Number of blue cones/lights | Remarks |
|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|--------------------|-------------|---|-----------------|-----------------------------|---------|
|                  |  |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b)       |                    |                    |             | 7.1.6 (11)  | 7.1.5 (12)      |                             |         |
| 0029             | 3.1.2 (2)<br>DETONATORS, NON-ELECTRIC for blasting | 2.2 (3a) | 2.2 (3b)<br>1.1B    | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)<br>LQ                | 3.5.1.2 (7b)<br>E0 | 3.2.1 (8)          | 8.1.5 (9)<br>PP    | 7.1.6 (10)  | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 7.1.5 (12)<br>3 | 3.2.1 (13)                  |         |
| 0030             | DETONATORS, ELECTRIC for blasting                  | 1        | 1.1B                |               | 1         |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0033             | BOMBS with bursting charge                         | 1        | 1.1F                |               | 1         |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0034             | BOMBS with bursting charge                         | 1        | 1.1D                |               | 1         |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0035             | BOMBS with bursting charge                         | 1        | 1.2D                |               | 1         |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0037             | BOMBS, PHOTO-FLASH                                 | 1        | 1.1F                |               | 1         |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0038             | BOMBS, PHOTO-FLASH                                 | 1        | 1.1D                |               | 1         |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0039             | BOMBS, PHOTO-FLASH                                 | 1        | 1.2G                |               | 1         |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |

| UN No. or ID No. | Name and description                    | Class         | Classification Code | Packing group | Labels         | Special provisions | Limited and excepted quantities |                    | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage     |                 | Number of blue cones/lights | Remarks |
|------------------|---|---------------|---------------------|---------------|----------------|--------------------|---------------------------------|--------------------|--------------------|--------------------|-------------|---|-----------------|-----------------------------|---------|
|                  |   |               |                     |               |                |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b)       |                    |                    |             | 7.1.6 (11)  | 7.1.5 (12)      |                             |         |
| 0042             | 3.1.2 (2)<br>BOOSTERS without detonator | 2.2 (3a)<br>1 | 2.2 (3b)<br>1.1D    | 2.1.1.3 (4)   | 5.2.2 (5)<br>1 | 3.3 (6)            | 3.4.6 (7a)<br>LQ                | 3.5.1.2 (7b)<br>E0 | 3.2.1 (8)          | 8.1.5 (9)<br>PP    | 7.1.6 (10)  | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 7.1.5 (12)<br>3 | 3.2.1 (13)                  |         |
| 0043             | BURSTERS, explosive                     | 1             | 1.1D                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0044             | PRIMERS, CAP TYPE                       | 1             | 1.4S                |               | 1.4            |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 0               |                             |         |
| 0048             | CHARGES, DEMOLITION                     | 1             | 1.1D                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0049             | CARTRIDGES, FLASH                       | 1             | 1.1G                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0050             | CARTRIDGES, FLASH                       | 1             | 1.3G                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0054             | CARTRIDGES, SIGNAL                      | 1             | 1.3G                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0055             | CASES, CARTRIDGE, EMPTY, WITH PRIMER    | 1             | 1.4S                |               | 1.4            |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 0               |                             |         |

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|------------------|--|---------------|---------------------|---------------|----------------|--------------------|---------------------------------|--------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
|                  |  |               |                     |               |                |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b)       |                    |                    |             |   |                             |            |
| 0056             | 3.1.2 (2)<br>CHARGES, DEPTH  | 2.2 (3a)<br>1 | 2.2 (3b)<br>1.1D    | 2.1.1.3 (4)   | 5.2.2 (5)<br>1 | 3.3 (6)            | 3.4.6 (7a)<br>LQ                | 3.5.1.2 (7b)<br>E0 | 3.2.1 (8)          | 8.1.5 (9)<br>PP    | 7.1.6 (10)  | 7.1.6 (11)<br>LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 7.1.5 (12)<br>3             | 3.2.1 (13) |
| 0059             | CHARGES, SHAPED without detonator  | 1             | 1.1D                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06               | 3                           |            |
| 0060             | CHARGES, SUPPLEMENTARY, EXPLOSIVE  | 1             | 1.1D                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06               | 3                           |            |
| 0065             | CORD, DETONATING, flexible   | 1             | 1.1D                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06               | 3                           |            |
| 0066             | CORD, IGNITER  | 1             | 1.4G                |               | 1.4            |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06                        | 1                           |            |
| 0070             | CUTTERS, CABLE, EXPLOSIVE  | 1             | 1.4S                |               | 1.4            |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06                        | 0                           |            |
| 0072             | CYCLOTRIMETHYLENE-TRINITRAMINE (CYCLONITE; HEXOGEN; RDX), WETTED with not less than 15% water, by mass | 1             | 1.1D                |               | 1              | 266                | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06               | 3                           |            |
| 0073             | DETONATORS FOR AMMUNITION  | 1             | 1.1B                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06               | 3                           |            |

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|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |   |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (11)  | 7.1.5 (12) |                             |         |
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 0074             | DIAZODINITROPHENOL, WETTED with not less than 40% water, or mixture of alcohol and water, by mass                   | 1        | 1.1A                |               | 1         | 266                | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0075             | DIETHYLENEGLYCOL DINITRATE, DESENSITIZED with not less than 25% non-volatile, water-insoluble phlegmatizer, by mass | 1        | 1.1D                |               | 1         | 266                | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0076             | DINITROPHENOL, dry or wetted with less than 15% water, by mass  | 1        | 1.1D                |               | 1+6.1     | 802                | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0077             | DINITROPHENOLATES, alkali metals, dry or wetted with less than 15% water, by mass                                   | 1        | 1.3C                |               | 1+6.1     | 802                | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3          |                             |         |
| 0078             | DINITRORESORCINOL, dry or wetted with less than 15% water, by mass  | 1        | 1.1D                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0079             | HEXANITRODIPHENYLAMINE (DIPICRYLAMINE; HEXYL)   | 1        | 1.1D                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0081             | EXPLOSIVE, BLASTING, TYPE A   | 1        | 1.1D                |               | 1         | 616<br>617         | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)   3.5.1.2 (7b)       | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 0082             | EXPLOSIVE, BLASTING, TYPE B                                    | 1        | 1.1D                |               | 1         | 617                | LQ E0                           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |            |
| 0083             | EXPLOSIVE, BLASTING, TYPE C                                    | 1        | 1.1D                |               | 1         | 267<br>617         | LQ E0                           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |            |
| 0084             | EXPLOSIVE, BLASTING, TYPE D                                    | 1        | 1.1D                |               | 1         | 617                | LQ E0                           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |            |
| 0092             | FLARES, SURFACE  | 1        | 1.3G                |               | 1         |                    | LQ E0                           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3                           |            |
| 0093             | FLARES, AERIAL   | 1        | 1.3G                |               | 1         |                    | LQ E0                           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3                           |            |
| 0094             | FLASH POWDER   | 1        | 1.1G                |               | 1         |                    | LQ E0                           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |            |
| 0099             | FRACTURING DEVICES, EXPLOSIVE without detonator, for oil wells | 1        | 1.1D                |               | 1         |                    | LQ E0                           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |            |
| 0101             | FUSE, NON-DETONATING   | 1        | 1.3G                |               | 1         |                    | LQ E0                           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3                           |            |

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|------------------|--|----------|---------------------|----------------|------------|--------------------|---------------------------------|--------------------|--------------------|---------------|---|-----------------------------|---------------|
| (1)              | (2)  | (3a)     | (3b)                | (4)            | (5)        | (6)                | (7a) (7b)                       | (8)                | (9)                | (10)          | (11)  | (12)                        | (13)          |
| 0102             | 3.1.2<br>(2)<br>CORD (FUSE), DETONATING, metal clad                                  | 2.2<br>1 | 2.2<br>1.2D         | 2.1.1.3<br>(4) | 5.2.2<br>1 | 3.3<br>(6)         | 3.4.6<br>LQ<br>3.5.1.2<br>E0    | 3.2.1<br>(8)       | 8.1.5<br>PP        | 7.1.6<br>(10) | 7.1.6<br>LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 7.1.5<br>(12)<br>3          | 3.2.1<br>(13) |
| 0103             | FUSE, IGNITER, tubular, metal clad   | 1        | 1.4G                |                | 1.4        |                    | LQ<br>E0                        |                    | PP                 |               | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1                           |               |
| 0104             | CORD (FUSE), DETONATING, MILD EFFECT, metal clad                                     | 1        | 1.4D                |                | 1.4        |                    | LQ<br>E0                        |                    | PP                 |               | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1                           |               |
| 0105             | FUSE, SAFETY   | 1        | 1.4S                |                | 1.4        |                    | LQ<br>E0                        |                    | PP                 |               | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 0                           |               |
| 0106             | FUZES, DETONATING  | 1        | 1.1B                |                | 1          |                    | LQ<br>E0                        |                    | PP                 |               | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |               |
| 0107             | FUZES, DETONATING  | 1        | 1.2B                |                | 1          |                    | LQ<br>E0                        |                    | PP                 |               | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |               |
| 0110             | GRENADES, PRACTICE, hand or rifle  | 1        | 1.4S                |                | 1.4        |                    | LQ<br>E0                        |                    | PP                 |               | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 0                           |               |
| 0113             | GUANYLNITROSAMINOQUANYLIDENE HYDRAZINE, WETTED with not less than 30% water, by mass | 1        | 1.1A                |                | 1          | 266                | LQ<br>E0                        |                    | PP                 |               | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |               |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
|                  |  |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             |   |                             |            |
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 0114             | GUANYLNITROSAMINO-GUANYLTETRAZENE (TETRAZENE), WETTED with not less than 30% water, or mixture of alcohol and water, by mass | 1        | 1.1A                |               | 1         | 266                | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |            |
| 0118             | HEXOLITE (HEXOTOL), dry or wetted with less than 15% water, by mass  | 1        | 1.1D                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |            |
| 0121             | IGNITERS   | 1        | 1.1G                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |            |
| 0124             | JET PERFORATING GUNS, CHARGED, oil well, without detonator   | 1        | 1.1D                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |            |
| 0129             | LEAD AZIDE, WETTED with not less than 20% water, or mixture of alcohol and water, by mass                                    | 1        | 1.1A                |               | 1         | 266                | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |            |
| 0130             | LEAD STYPHNATE (LEAD TRINITRORESORCINATE), WETTED with not less than 20% water, or mixture of alcohol and water, by mass     | 1        | 1.1A                |               | 1         | 266                | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |            |
| 0131             | LIGHTERS, FUSE   | 1        | 1.4S                |               | 1.4       |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 0                           |            |
| 0132             | DEFLAGRATING METAL SALTS OF AROMATIC NITRODERIVATIVES, N.O.S.  | 1        | 1.3C                |               | 1         | 274                | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3                           |            |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |  |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (11)  | 7.1.6 (12) |                             |         |
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.6 (12) | 3.2.1 (13)                  |         |
| 0133             | MANNITOL HEXANITRATE (NITROMANNITE), WETTED with not less than 40% water, or mixture of alcohol and water, by mass | 1        | 1.1D                |               | 1         | 266                | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0135             | MERCURY FULMINATE, WETTED with not less than 20% water, or mixture of alcohol and water, by mass                   | 1        | 1.1A                |               | 1         | 266                | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0136             | MINES with bursting charge   | 1        | 1.1F                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0137             | MINES with bursting charge   | 1        | 1.1D                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0138             | MINES with bursting charge   | 1        | 1.2D                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3          |                             |         |
| 0143             | NITROGLYCERIN, DESENSITIZED with not less than 40% non-volatile water-insoluble phlegmatizer, by mass              | 1        | 1.1D                |               | 1+6.1     | 266<br>271<br>802  | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0144             | NITROGLYCERIN SOLUTION IN ALCOHOL with more than 1% but not more than 10% nitroglycerin                            | 1        | 1.1D                |               | 1         | 500                | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |



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|------------------|--|----------|---------------------|---------------|----------------|--------------------|---------------------------------|--------------------|--------------------|--------------------|-------------|---|-----------------|-----------------------------|---------|
|                  |  |          |                     |               |                |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b)       |                    |                    |             | 7.1.6 (11)  | 7.1.5 (12)      |                             |         |
| 0146             | 3.1.2 (2)<br>NITROSTARCH, dry or wetted with less than 20% water, by mass  | 2.2 (3a) | 2.2 (3b)<br>1.1D    | 2.1.1.3 (4)   | 5.2.2 (5)<br>1 | 3.3 (6)            | 3.4.6 (7a)<br>LQ                | 3.5.1.2 (7b)<br>E0 | 3.2.1 (8)          | 8.1.5 (9)<br>PP    | 7.1.6 (10)  | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 7.1.5 (12)<br>3 | 3.2.1 (13)                  |         |
| 0147             | NITRO UREA   | 1        | 1.1D                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0150             | PENTAERYTHRITOL TETRANITRATE (PENTAERYTHRITOL TETRANITRATE; PETN), WETTED with not less than 25% water, by mass, or DESENSITIZED with not less than 1.5% phlegmatizer, by mass | 1        | 1.1D                |               | 1              | 266                | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0151             | PENTOLITE, dry or wetted with less than 15% water, by mass   | 1        | 1.1D                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0153             | TRINITROANILINE (PICRAMIDE)  | 1        | 1.1D                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0154             | TRINITROPHENOL (PICRIC ACID), dry or wetted with less than 30% water, by mass  | 1        | 1.1D                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 1               |                             |         |
| 0155             | TRINITROCHLOROBENZENE (PICRYL CHLORIDE)  | 1        | 1.1D                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |

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|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |   |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (11)  | 7.1.5 (12) |                             |         |
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 0159             | POWDER CAKE (POWDER PASTE), WETTED with not less than 25% water, by mass                | 1        | 1.3C                |               | 1         | 266                | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3          |                             |         |
| 0160             | POWDER, SMOKELESS   | 1        | 1.1C                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0161             | POWDER, SMOKELESS   | 1        | 1.3C                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3          |                             |         |
| 0167             | PROJECTILES with bursting charge  | 1        | 1.1F                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0168             | PROJECTILES with bursting charge  | 1        | 1.1D                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0169             | PROJECTILES with bursting charge  | 1        | 1.2D                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3          |                             |         |
| 0171             | AMMUNITION, ILLUMINATING with or without burster, expelling charge or propelling charge | 1        | 1.2G                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3          |                             |         |
| 0173             | RELEASE DEVICES, EXPLOSIVE  | 1        | 1.4S                |               | 1.4       |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 0          |                             |         |

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|------------------|---|----------|---------------------|----------------|--------------|--------------------|---------------------------------|--------------------|--------------------|---------------|---|-----------------------------|---------------|
| (1)              | (2)   | (3a)     | (3b)                | (4)            | (5)          | (6)                | (7a) (7b)                       | (8)                | (9)                | (10)          | (11)  | (12)                        | (13)          |
| 0174             | 3.1.2<br>RIVETS, EXPLOSIVE                          | 2.2<br>1 | 2.2<br>1.4S         | 2.1.1.3<br>(4) | 5.2.2<br>1.4 | 3.3<br>(6)         | 3.4.6<br>LQ<br>3.5.1.2<br>E0    | 3.2.1<br>(8)       | 8.1.5<br>PP        | 7.1.6<br>(10) | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 7.1.5<br>(12)<br>0          | 3.2.1<br>(13) |
| 0180             | ROCKETS with bursting charge                        | 1        | 1.1F                |                | 1            |                    | LQ<br>E0                        |                    | PP                 |               | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |               |
| 0181             | ROCKETS with bursting charge                        | 1        | 1.1E                |                | 1            |                    | LQ<br>E0                        |                    | PP                 |               | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |               |
| 0182             | ROCKETS with bursting charge                        | 1        | 1.2E                |                | 1            |                    | LQ<br>E0                        |                    | PP                 |               | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3                           |               |
| 0183             | ROCKETS with inert head                             | 1        | 1.3C                |                | 1            |                    | LQ<br>E0                        |                    | PP                 |               | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3                           |               |
| 0186             | ROCKET MOTORS                                       | 1        | 1.3C                |                | 1            |                    | LQ<br>E0                        |                    | PP                 |               | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3                           |               |
| 0190             | SAMPLES, EXPLOSIVE, other than initiating explosive | 1        |                     |                |              | 16<br>274          | LQ<br>E0                        |                    | PP                 |               | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |               |
| 0191             | SIGNAL DEVICES, HAND                                | 1        | 1.4G                |                | 1.4          |                    | LQ<br>E0                        |                    | PP                 |               | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1                           |               |

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|------------------|--|----------|---------------------|---------------|----------------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|-----------------|-----------------------------|---------|
|                  |  |          |                     |               |                |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (11)  | 7.1.5 (12)      |                             |         |
| 0192             | 3.1.2 (2)<br>SIGNALS, RAILWAY TRACK, EXPLOSIVE | 2.2 (3a) | 2.2 (3b)<br>1.1G    | 2.1.1.3 (4)   | 5.2.2 (5)<br>1 | 3.3 (6)            | LQ                              | E0           | 3.2.1 (8)          | 8.1.5 (9)<br>PP    | 7.1.6 (10)  | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 7.1.5 (12)<br>3 | 3.2.1 (13)                  |         |
| 0193             | SIGNALS, RAILWAY TRACK, EXPLOSIVE              | 1        | 1.4S                |               | 1.4            |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 0               |                             |         |
| 0194             | SIGNALS, DISTRESS, ship                        | 1        | 1.1G                |               | 1              |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0195             | SIGNALS, DISTRESS, ship                        | 1        | 1.3G                |               | 1              |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0196             | SIGNALS, SMOKE                                 | 1        | 1.1G                |               | 1              |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0197             | SIGNALS, SMOKE                                 | 1        | 1.4G                |               | 1.4            |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1               |                             |         |
| 0204             | SOUNDING DEVICES, EXPLOSIVE                    | 1        | 1.2F                |               | 1              |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0207             | TETRANITROANILINE                              | 1        | 1.1D                |               | 1              |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |

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|------------------|--|---------------|---------------------|---------------|----------------|--------------------|---------------------------------|--------------------|--------------------|--------------------|-------------|---|-----------------|-----------------------------|---------|
|                  |  |               |                     |               |                |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b)       |                    |                    |             | 7.1.6 (11)  | 7.1.6 (12)      |                             |         |
| 0208             | 3.1.2 (2)<br>TRINITROPHENYLMETHYLNITRAMINE (TETRYL)                    | 2.2 (3a)<br>1 | 2.2 (3b)<br>1.1D    | 2.1.1.3 (4)   | 5.2.2 (5)<br>1 | 3.3 (6)            | 3.4.6 (7a)<br>LQ                | 3.5.1.2 (7b)<br>E0 | 3.2.1 (8)          | 8.1.5 (9)<br>PP    | 7.1.6 (10)  | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 7.1.5 (12)<br>3 | 3.2.1 (13)                  |         |
| 0209             | TRINITROTOLUENE (TNT), dry or wetted with less than 30% water, by mass | 1             | 1.1D                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0212             | TRACERS FOR AMMUNITION   | 1             | 1.3G                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0213             | TRINITROANISOLE  | 1             | 1.1D                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0214             | TRINITROBENZENE, dry or wetted with less than 30% water, by mass       | 1             | 1.1D                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0215             | TRINITROBENZOIC ACID, dry or wetted with less than 30% water, by mass  | 1             | 1.1D                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0216             | TRINITRO-m-CRESOL  | 1             | 1.1D                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |

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|------------------|---|-------|---------------------|---------------|--------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |   |       |                     |               |        |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (11)  | 7.1.5 (12) |                             |         |
| (1)              | (2)   | (3a)  | (3b)                | (4)           | (5)    | (6)                | (7a)                            | (7b)         | (8)                | (9)                | (10)        | (11)  | (12)       | (13)                        |         |
| 0217             | 3.1.2<br>TRINITRONAPHTHALENE  | 1     | 1.1D                |               | 1      |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0218             | TRINITROPHENETOLE   | 1     | 1.1D                |               | 1      |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0219             | TRINITRORESORCINOL (STYPHNIC ACID),<br>dry or wetted with less than 20% water, or<br>mixture of alcohol and water, by mass  | 1     | 1.1D                |               | 1      |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0220             | UREA NITRATE, dry or wetted with less than<br>20% water, by mass  | 1     | 1.1D                |               | 1      |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0221             | WARHEADS, TORPEDO with bursting charge  | 1     | 1.1D                |               | 1      |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0222             | AMMONIUM NITRATE with more than 0.2%<br>combustible substances, including any organic<br>substance calculated as carbon, to the exclusion<br>of any other added substance | 1     | 1.1D                |               | 1      |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0224             | BARIUM AZIDE, dry or wetted with less than<br>50% water, by mass  | 1     | 1.1A                |               | 1+6.1  | 802                | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |

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|------------------|--|---------------|---------------------|---------------|----------------|--------------------|---------------------------------|--------------------|--------------------|--------------------|-------------|---|-----------------|-----------------------------|---------|
|                  |  |               |                     |               |                |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b)       |                    |                    |             | 7.1.6 (11)  | 7.1.5 (12)      |                             |         |
| 0225             | 3.1.2 (2)<br>BOOSTERS WITH DETONATOR   | 2.2 (3a)<br>1 | 2.2 (3b)<br>1.1B    | 2.1.1.3 (4)   | 5.2.2 (5)<br>1 | 3.3 (6)            | 3.4.6 (7a)<br>LQ                | 3.5.1.2 (7b)<br>E0 | 3.2.1 (8)          | 8.1.5 (9)<br>PP    | 7.1.6 (10)  | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 7.1.5 (12)<br>3 | 3.2.1 (13)                  |         |
| 0226             | CYCLOTETRAMETHYLENE-TETRAMINE (HMX; OCTOGEN), WETTED with not less than 15% water, by mass | 1             | 1.1D                |               | 1              | 266                | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0234             | SODIUM DINITRO-o-CRESOLATE, dry or wetted with less than 15% water, by mass                | 1             | 1.3C                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0235             | SODIUM PICRAMATE, dry or wetted with less than 20% water, by mass                          | 1             | 1.3C                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0236             | ZIRCONIUM PICRAMATE, dry or wetted with less than 20% water, by mass                       | 1             | 1.3C                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0237             | CHARGES, SHAPED, FLEXIBLE, LINEAR  | 1             | 1.4D                |               | 1.4            |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1               |                             |         |
| 0238             | ROCKETS, LINE-THROWING   | 1             | 1.2G                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0240             | ROCKETS, LINE-THROWING   | 1             | 1.3G                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |

| UN No. or ID No. | Name and description   | Class    | Classification Code | Packing group | Labels    | Special provisions | Limited and excepted quantities |              | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage     | Number of blue cones/lights | Remarks    |
|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
|                  |  |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             |   |                             |            |
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 0241             | EXPLOSIVE, BLASTING, TYPE E  | 1        | 1.1D                |               | 1         | 617                | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |            |
| 0242             | CHARGES, PROPELLING, FOR CANNON  | 1        | 1.3C                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3                           |            |
| 0243             | AMMUNITION, INCENDIARY, WHITE PHOSPHORUS with burster, expelling charge or propelling charge | 1        | 1.2H                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3                           |            |
| 0244             | AMMUNITION, INCENDIARY, WHITE PHOSPHORUS with burster, expelling charge or propelling charge | 1        | 1.3H                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3                           |            |
| 0245             | AMMUNITION, SMOKE, WHITE PHOSPHORUS with burster, expelling charge or propelling charge      | 1        | 1.2H                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3                           |            |
| 0246             | AMMUNITION, SMOKE, WHITE PHOSPHORUS with burster, expelling charge or propelling charge      | 1        | 1.3H                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3                           |            |
| 0247             | AMMUNITION, INCENDIARY, liquid or gel, with burster, expelling charge or propelling charge   | 1        | 1.3J                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3                           |            |
| 0248             | CONTRIVANCES, WATER-ACTIVATED with burster, expelling charge or propelling charge            | 1        | 1.2L                |               | 1         | 274                | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3                           |            |
| 0249             | CONTRIVANCES, WATER-ACTIVATED with burster, expelling charge or propelling charge            | 1        | 1.3L                |               | 1         | 274                | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3                           |            |



| UN No. or ID No. | Name and description  | Class         | Classification Code | Packing group    | Labels         | Special provisions | Limited and excepted quantities |              | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage     |                 | Number of blue cones/lights | Remarks |
|------------------|---|---------------|---------------------|------------------|----------------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|-----------------|-----------------------------|---------|
|                  |   |               |                     |                  |                |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (11)  | 7.1.5 (12)      |                             |         |
| 0250             | 3.1.2 (2)<br>ROCKET MOTORS WITH HYPERGOLIC LIQUIDS with or without expelling charge     | 2.2 (3a)<br>1 | 2.2 (3b)<br>1.3L    | 2.1.1.3 (4)<br>1 | 5.2.2 (5)<br>1 | 3.3 (6)            | LQ                              | E0           | 3.2.1 (8)          | PP                 | 7.1.6 (10)  | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 7.1.5 (12)<br>3 | 3.2.1 (13)                  |         |
| 0254             | AMMUNITION, ILLUMINATING with or without burster, expelling charge or propelling charge | 1             | 1.3G                |                  | 1              |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0255             | DETONATORS, ELECTRIC for blasting   | 1             | 1.4B                |                  | 1.4            |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 1               |                             |         |
| 0257             | FUZES, DETONATING   | 1             | 1.4B                |                  | 1.4            |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 1               |                             |         |
| 0266             | OCTOLITE (OCTOL), dry or wetted with less than 15% water, by mass                       | 1             | 1.1D                |                  | 1              |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0267             | DETONATORS, NON-ELECTRIC for blasting   | 1             | 1.4B                |                  | 1.4            |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 1               |                             |         |
| 0268             | BOOSTERS WITH DETONATOR   | 1             | 1.2B                |                  | 1              |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0271             | CHARGES, PROPELLING   | 1             | 1.1C                |                  | 1              |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |

| UN No. or ID No. | Name and description            | Class    | Classification Code | Packing group  | Labels     | Special provisions | Limited and excepted quantities | Carriage permitted | Equipment required | Ventilation   | Provisions concerning loading, unloading and carriage             | Number of blue cones/lights | Remarks       |
|------------------|---------------------------------|----------|---------------------|----------------|------------|--------------------|---------------------------------|--------------------|--------------------|---------------|---|-----------------------------|---------------|
| (1)              | (2)                             | (3a)     | (3b)                | (4)            | (5)        | (6)                | (7a) (7b)                       | (8)                | (9)                | (10)          | (11)  | (12)                        | (13)          |
| 0272             | 3.1.2<br>CHARGES, PROPELLING    | 2.2<br>1 | 2.2<br>1.3C         | 2.1.1.3<br>(4) | 5.2.2<br>1 | 3.3<br>(6)         | 3.4.6<br>LQ<br>3.5.1.2<br>E0    | 3.2.1<br>(8)       | 8.1.5<br>PP<br>(9) | 7.1.6<br>(10) | 7.1.6<br>LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06<br>(11) | 7.1.5<br>3<br>(12)          | 3.2.1<br>(13) |
| 0275             | CARTRIDGES, POWER DEVICE        | 1        | 1.3C                |                | 1          |                    | LQ<br>E0                        |                    | PP                 |               | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06                  | 3                           |               |
| 0276             | CARTRIDGES, POWER DEVICE        | 1        | 1.4C                |                | 1.4        |                    | LQ<br>E0                        |                    | PP                 |               | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06                  | 1                           |               |
| 0277             | CARTRIDGES, OIL WELL            | 1        | 1.3C                |                | 1          |                    | LQ<br>E0                        |                    | PP                 |               | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06                  | 3                           |               |
| 0278             | CARTRIDGES, OIL WELL            | 1        | 1.4C                |                | 1.4        |                    | LQ<br>E0                        |                    | PP                 |               | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06                  | 1                           |               |
| 0279             | CHARGES, PROPELLING, FOR CANNON | 1        | 1.1C                |                | 1          |                    | LQ<br>E0                        |                    | PP                 |               | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06         | 3                           |               |
| 0280             | ROCKET MOTORS                   | 1        | 1.1C                |                | 1          |                    | LQ<br>E0                        |                    | PP                 |               | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06         | 3                           |               |
| 0281             | ROCKET MOTORS                   | 1        | 1.2C                |                | 1          |                    | LQ<br>E0                        |                    | PP                 |               | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06                  | 3                           |               |

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|------------------|--|----------|---------------------|---------------|----------------|--------------------|---------------------------------|--------------------|--------------------|--------------------|-------------|---|-----------------|-----------------------------|---------|
|                  |  |          |                     |               |                |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b)       |                    |                    |             | 7.1.6 (11)  | 7.1.5 (12)      |                             |         |
| 0282             | 3.1.2 (2)<br>NITROGUANIDINE (PICRITE), dry or wetted with less than 20% water, by mass | 2.2 (3a) | 2.2 (3b)<br>1 1.1D  | 2.1.1.3 (4)   | 5.2.2 (5)<br>1 | 3.3 (6)            | 3.4.6 (7a)<br>LQ                | 3.5.1.2 (7b)<br>E0 | 3.2.1 (8)          | 8.1.5 (9)<br>PP    | 7.1.6 (10)  | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 7.1.5 (12)<br>3 | 3.2.1 (13)                  |         |
| 0283             | BOOSTERS without detonator   | 1        | 1.2D                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0284             | GRENADES, hand or rifle, with bursting charge  | 1        | 1.1D                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0285             | GRENADES, hand or rifle, with bursting charge  | 1        | 1.2D                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0286             | WARHEADS, ROCKET with bursting charge  | 1        | 1.1D                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0287             | WARHEADS, ROCKET with bursting charge  | 1        | 1.2D                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0288             | CHARGES, SHAPED, FLEXIBLE, LINEAR  | 1        | 1.1D                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0289             | CORD, DETONATING, flexible   | 1        | 1.4D                |               | 1.4            |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1               |                             |         |

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|------------------|--|----------|---------------------|---------------|----------------|--------------------|---------------------------------|--------------------|--------------------|--------------------|-------------|---|-----------------|-----------------------------|---------|
|                  |  |          |                     |               |                |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b)       |                    |                    |             | 7.1.6 (11)  | 7.1.5 (12)      |                             |         |
| 0290             | 3.1.2 (2)<br>CORD (FUSE), DETONATING, metal clad | 2.2 (3a) | 2.2 (3b)<br>1.1D    | 2.1.1.3 (4)   | 5.2.2 (5)<br>1 | 3.3 (6)            | 3.4.6 (7a)<br>LQ                | 3.5.1.2 (7b)<br>E0 | 3.2.1 (8)          | 8.1.5 (9)<br>PP    | 7.1.6 (10)  | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 7.1.5 (12)<br>3 | 3.2.1 (13)                  |         |
| 0291             | BOMBS with bursting charge                       | 1        | 1.2F                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0292             | GRENADES, hand or rifle, with bursting charge    | 1        | 1.1F                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0293             | GRENADES, hand or rifle, with bursting charge    | 1        | 1.2F                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0294             | MINES with bursting charge                       | 1        | 1.2F                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0295             | ROCKETS with bursting charge                     | 1        | 1.2F                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0296             | SOUNDING DEVICES, EXPLOSIVE                      | 1        | 1.1F                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |

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|------------------|---|---------------|---------------------|--------------------|------------------|--------------------|---------------------------------|--------------------|--------------------|--------------------|-------------|---|-----------------|-----------------------------|------------|
|                  |   |               |                     |                    |                  |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b)       |                    |                    |             | 7.1.6 (11)  | 7.1.6 (12)      |                             |            |
| 0297             | 3.1.2 (2)<br>AMMUNITION, ILLUMINATING with or without burster, expelling charge or propelling charge              | 2.2 (3a)<br>1 | 2.2 (3b)<br>1.4G    | 2.1.1.3 (4)<br>1.4 | 5.2.2 (5)<br>1.4 | 3.3 (6)            | 3.4.6 (7a)<br>LQ                | 3.5.1.2 (7b)<br>E0 | 3.2.1 (8)          | 8.1.5 (9)<br>PP    | 7.1.6 (10)  | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06      | 7.1.6 (11)<br>1 | 7.1.5 (12)<br>1             | 3.2.1 (13) |
| 0299             | BOMBS, PHOTO-FLASH  | 1             | 1.3G                |                    | 1                |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06      | 3               |                             |            |
| 0300             | AMMUNITION, INCENDIARY with or without burster, expelling charge or propelling charge                             | 1             | 1.4G                |                    | 1.4              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06      | 1               |                             |            |
| 0301             | AMMUNITION, TEAR-PRODUCING with burster, expelling charge or propelling charge                                    | 1             | 1.4G                |                    | 1.4+6.1+8        | 802                | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06      | 1               |                             |            |
| 0303             | AMMUNITION, SMOKE with or without burster, expelling charge or propelling charge                                  | 1             | 1.4G                |                    | 1.4              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06      | 1               |                             |            |
| 0303             | AMMUNITION, SMOKE with or without burster, expelling charge or propelling charge, containing corrosive substances | 1             | 1.4G                |                    | 1.4 +8           |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06      | 1               |                             |            |
| 0305             | FLASH POWDER  | 1             | 1.3G                |                    | 1                |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06      | 3               |                             |            |
| 0306             | TRACERS FOR AMMUNITION  | 1             | 1.4G                |                    | 1.4              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06      | 1               |                             |            |
| 0312             | CARTRIDGES, SIGNAL  | 1             | 1.4G                |                    | 1.4              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06      | 1               |                             |            |

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|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)                                   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)   3.5.1.2 (7b)       | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 0313             | SIGNALS, SMOKE                              | 1        | 1.2G                |               | 1         |                    | LQ   E0                         |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06      | 3                           |            |
| 0314             | IGNITERS                                    | 1        | 1.2G                |               | 1         |                    | LQ   E0                         |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06      | 3                           |            |
| 0315             | IGNITERS                                    | 1        | 1.3G                |               | 1         |                    | LQ   E0                         |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06      | 3                           |            |
| 0316             | FUZES, IGNITING                             | 1        | 1.3G                |               | 1         |                    | LQ   E0                         |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06      | 3                           |            |
| 0317             | FUZES, IGNITING                             | 1        | 1.4G                |               | 1.4       |                    | LQ   E0                         |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06      | 1                           |            |
| 0318             | GRENADERS, PRACTICE, hand or rifle          | 1        | 1.3G                |               | 1         |                    | LQ   E0                         |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06      | 3                           |            |
| 0319             | PRIMERS, TUBULAR                            | 1        | 1.3G                |               | 1         |                    | LQ   E0                         |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06      | 3                           |            |
| 0320             | PRIMERS, TUBULAR                            | 1        | 1.4G                |               | 1.4       |                    | LQ   E0                         |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06      | 1                           |            |
| 0321             | CARTRIDGES FOR WEAPONS with bursting charge | 1        | 1.2E                |               | 1         |                    | LQ   E0                         |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06      | 3                           |            |

| UN No. or ID No. | Name and description   | Class    | Classification Code | Packing group | Labels    | Special provisions | Limited and excepted quantities |              | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage |                                    | Number of blue cones/lights | Remarks |
|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------------------------------|-----------------------------|---------|
|                  |  |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (11)  | 7.1.5 (12)                         |                             |         |
| 0322             | ROCKET MOTORS WITH HYPERGOLIC LIQUIDS with or without expelling charge | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                         | 3.2.1 (13)                  |         |
|                  |  | 1        | 1.2L                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01  | HA01, HA03, HA04, HA05, HA06       | 3                           |         |
| 0323             | CARTRIDGES, POWER DEVICE   | 1        | 1.4S                |               | 1.4       |                    | LQ                              | E0           |                    | PP                 |             | LO01  | HA01, HA03, HA04, HA05, HA06       | 0                           |         |
| 0324             | PROJECTILES with bursting charge                                       | 1        | 1.2F                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01  | HA01, HA02, HA03, HA04, HA05, HA06 | 3                           |         |
| 0325             | IGNITERS   | 1        | 1.4G                |               | 1.4       |                    | LQ                              | E0           |                    | PP                 |             | LO01  | HA01, HA03, HA04, HA05, HA06       | 1                           |         |
| 0326             | CARTRIDGES FOR WEAPONS, BLANK  | 1        | 1.1C                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01  | HA01, HA02, HA03, HA04, HA05, HA06 | 3                           |         |
| 0327             | CARTRIDGES FOR WEAPONS, BLANK or CARTRIDGES, SMALL ARMS, BLANK         | 1        | 1.3C                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01  | HA01, HA03, HA04, HA05, HA06       | 3                           |         |
| 0328             | CARTRIDGES FOR WEAPONS, INERT PROJECTILE                               | 1        | 1.2C                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01  | HA01, HA03, HA04, HA05, HA06       | 3                           |         |
| 0329             | TORPEDOES with bursting charge   | 1        | 1.1E                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01  | HA01, HA02, HA03, HA04, HA05, HA06 | 3                           |         |

| UN No. or ID No. | Name and description                                  | Class    | Classification Code | Packing group | Labels    | Special provisions | Limited and excepted quantities |              | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage     |            | Number of blue cones/lights | Remarks |
|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |   |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (11)  | 7.1.6 (12) |                             |         |
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.6 (12) | 3.2.1 (13)                  |         |
| 0330             | TORPEDOES with bursting charge                        | 1        | 1.1F                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0331             | EXPLOSIVE, BLASTING, TYPE B (AGENT, BLASTING, TYPE B) | 1        | 1.5D                |               | 1.5       | 617                | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3          |                             |         |
| 0332             | EXPLOSIVE, BLASTING, TYPE E (AGENT, BLASTING, TYPE B) | 1        | 1.5D                |               | 1.5       | 617                | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3          |                             |         |
| 0333             | FIREWORKS   | 1        | 1.1G                |               | 1         | 645                | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0334             | FIREWORKS   | 1        | 1.2G                |               | 1         | 645                | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3          |                             |         |
| 0335             | FIREWORKS   | 1        | 1.3G                |               | 1         | 645                | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3          |                             |         |
| 0336             | FIREWORKS   | 1        | 1.4G                |               | 1.4       | 645<br>651         | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1          |                             |         |
| 0337             | FIREWORKS   | 1        | 1.4S                |               | 1.4       | 645                | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 0          |                             |         |



| UN No. or ID No. | Name and description   | Class         | Classification Code | Packing group | Labels           | Special provisions | Limited and excepted quantities |                    | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage     |                 | Number of blue cones/lights | Remarks |
|------------------|--|---------------|---------------------|---------------|------------------|--------------------|---------------------------------|--------------------|--------------------|--------------------|-------------|---|-----------------|-----------------------------|---------|
|                  |  |               |                     |               |                  |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b)       |                    |                    |             | 7.1.6 (11)  | 7.1.5 (12)      |                             |         |
| 0338             | 3.1.2 (2)<br>CARTRIDGES FOR WEAPONS, BLANK or CARTRIDGES, SMALL-ARMS, BLANK                  | 2.2 (3a)<br>1 | 2.2 (3b)<br>1.4C    | 2.1.1.3 (4)   | 5.2.2 (5)<br>1.4 | 3.3 (6)            | 3.4.6 (7a)<br>LQ                | 3.5.1.2 (7b)<br>E0 | 3.2.1 (8)          | 8.1.5 (9)<br>PP    | 7.1.6 (10)  | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 7.1.5 (12)<br>1 | 3.2.1 (13)                  |         |
| 0339             | CARTRIDGES FOR WEAPONS, INERT PROJECTILE or CARTRIDGES, SMALL-ARMS                           | 1             | 1.4C                |               | 1.4              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1               |                             |         |
| 0340             | NITROCELLULOSE, dry or wetted with less than 25% water (or alcohol), by mass                 | 1             | 1.1D                |               | 1                |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0341             | NITROCELLULOSE, unmodified or plasticized with less than 18% plasticizing substance, by mass | 1             | 1.1D                |               | 1                |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0342             | NITROCELLULOSE, WETTED with not less than 25% alcohol, by mass                               | 1             | 1.3C                |               | 1                | 105                | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0343             | NITROCELLULOSE, PLASTICIZED with not less than 18% plasticizing substance, by mass           | 1             | 1.3C                |               | 1                | 105                | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0344             | PROJECTILES with bursting charge   | 1             | 1.4D                |               | 1.4              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1               |                             |         |
| 0345             | PROJECTILES, inert with tracer   | 1             | 1.4S                |               | 1.4              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 0               |                             |         |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |  |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (11)  | 7.1.5 (12) |                             |         |
| (1)              | 3.1.2 (2)                                    | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 0346             | PROJECTILES with burster or expelling charge | 1        | 1.2D                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3          |                             |         |
| 0347             | PROJECTILES with burster or expelling charge | 1        | 1.4D                |               | 1.4       |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1          |                             |         |
| 0348             | CARTRIDGES FOR WEAPONS with bursting charge  | 1        | 1.4F                |               | 1.4       |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 1          |                             |         |
| 0349             | ARTICLES, EXPLOSIVE, N.O.S.                  | 1        | 1.4S                |               | 1.4       | 178<br>274         | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 0          |                             |         |
| 0350             | ARTICLES, EXPLOSIVE, N.O.S.                  | 1        | 1.4B                |               | 1.4       | 178<br>274         | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 1          |                             |         |
| 0351             | ARTICLES, EXPLOSIVE, N.O.S.                  | 1        | 1.4C                |               | 1.4       | 178<br>274         | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1          |                             |         |
| 0352             | ARTICLES, EXPLOSIVE, N.O.S.                  | 1        | 1.4D                |               | 1.4       | 178<br>274         | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1          |                             |         |
| 0353             | ARTICLES, EXPLOSIVE, N.O.S.                  | 1        | 1.4G                |               | 1.4       | 178<br>274         | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1          |                             |         |

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|------------------|---|---------------|---------------------|---------------|----------------|-----------------------|---------------------------------|--------------------|--------------------|--------------------|-------------|---|-----------------|-----------------------------|---------|
|                  |   |               |                     |               |                |                       | 3.4.6 (7a)                      | 3.5.1.2 (7b)       |                    |                    |             | 7.1.6 (8)   | 7.1.6 (9)       |                             |         |
| 0354             | 3.1.2 (2)<br>ARTICLES, EXPLOSIVE, N.O.S.        | 2.2 (3a)<br>1 | 2.2 (3b)<br>1.1L    | 2.1.1.3 (4)   | 5.2.2 (5)<br>1 | 3.3 (6)<br>178<br>274 | 3.4.6 (7a)<br>LQ                | 3.5.1.2 (7b)<br>E0 | 3.2.1 (8)          | 8.1.5 (9)<br>PP    | 7.1.6 (10)  | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 7.1.5 (12)<br>3 | 3.2.1 (13)                  |         |
| 0355             | ARTICLES, EXPLOSIVE, N.O.S.                     | 1             | 1.2L                |               | 1              | 178<br>274            | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0356             | ARTICLES, EXPLOSIVE, N.O.S.                     | 1             | 1.3L                |               | 1              | 178<br>274            | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0357             | SUBSTANCES, EXPLOSIVE, N.O.S.                   | 1             | 1.1L                |               | 1              | 178<br>274            | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0358             | SUBSTANCES, EXPLOSIVE, N.O.S.                   | 1             | 1.2L                |               | 1              | 178<br>274            | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0359             | SUBSTANCES, EXPLOSIVE, N.O.S.                   | 1             | 1.3L                |               | 1              | 178<br>274            | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0360             | DETONATOR ASSEMBLIES, NON-ELECTRIC for blasting | 1             | 1.1B                |               | 1              |                       | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0361             | DETONATOR ASSEMBLIES, NON-ELECTRIC for blasting | 1             | 1.4B                |               | 1.4            |                       | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 1               |                             |         |

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|------------------|---------------------------------------|----------|---------------------|---------------|--------------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|---------------|
| (1)              | (2)                                   | (3a)     | (3b)                | (4)           | (5)          | (6)                | (7a) (7b)                       | (8)                | (9)                | (10)        | (11)  | (12)                        | (13)          |
| 0362             | 3.1.2<br>AMMUNITION, PRACTICE         | 2.2<br>1 | 2.2<br>1.4G         | 2.1.1.3       | 5.2.2<br>1.4 | 3.3                | 3.4.6<br>LQ<br>E0               | 3.2.1              | 8.1.5<br>PP        | 7.1.6       | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 7.1.5<br>1                  | 3.2.1<br>(13) |
| 0363             | AMMUNITION, PROOF                     | 1        | 1.4G                |               | 1.4          |                    | LQ<br>E0                        |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1                           |               |
| 0364             | DETONATORS FOR AMMUNITION             | 1        | 1.2B                |               | 1            |                    | LQ<br>E0                        |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |               |
| 0365             | DETONATORS FOR AMMUNITION             | 1        | 1.4B                |               | 1.4          |                    | LQ<br>E0                        |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 1                           |               |
| 0366             | DETONATORS FOR AMMUNITION             | 1        | 1.4S                |               | 1.4          |                    | LQ<br>E0                        |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 0                           |               |
| 0367             | FUZES, DETONATING                     | 1        | 1.4S                |               | 1.4          |                    | LQ<br>E0                        |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 0                           |               |
| 0368             | FUZES, IGNITING                       | 1        | 1.4S                |               | 1.4          |                    | LQ<br>E0                        |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 0                           |               |
| 0369             | WARHEADS, ROCKET with bursting charge | 1        | 1.1F                |               | 1            |                    | LQ<br>E0                        |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |               |

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|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |   |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (11)  | 7.1.5 (12) |                             |         |
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 0370             | WARHEADS, ROCKET with burster or expelling charge | 1        | 1.4D                |               | 1.4       |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1          |                             |         |
| 0371             | WARHEADS, ROCKET with burster or expelling charge | 1        | 1.4F                |               | 1.4       |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 1          |                             |         |
| 0372             | GRENADES, PRACTICE, hand or rifle                 | 1        | 1.2G                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3          |                             |         |
| 0373             | SIGNAL DEVICES, HAND                              | 1        | 1.4S                |               | 1.4       |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 0          |                             |         |
| 0374             | SOUNDING DEVICES, EXPLOSIVE                       | 1        | 1.1D                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0375             | SOUNDING DEVICES, EXPLOSIVE                       | 1        | 1.2D                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3          |                             |         |
| 0376             | PRIMERS, TUBULAR                                  | 1        | 1.4S                |               | 1.4       |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 0          |                             |         |
| 0377             | PRIMERS, CAP TYPE                                 | 1        | 1.1B                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |

| UN No. or ID No. | Name and description                 | Class         | Classification Code | Packing group | Labels           | Special provisions | Limited and excepted quantities |                    | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage |  | Number of blue cones/lights | Remarks    |
|------------------|--------------------------------------|---------------|---------------------|---------------|------------------|--------------------|---------------------------------|--------------------|--------------------|--------------------|-------------|---|--|-----------------------------|------------|
|                  |                                      |               |                     |               |                  |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b)       |                    |                    |             | 7.1.6 (11)  | 7.1.5 (12)                                       |                             |            |
| 0378             | 3.1.2 (2)<br>PRIMERS, CAP TYPE       | 2.2 (3a)<br>1 | 2.2 (3b)<br>1.4B    | 2.1.1.3 (4)   | 5.2.2 (5)<br>1.4 | 3.3 (6)            | 3.4.6 (7a)<br>LQ                | 3.5.1.2 (7b)<br>E0 | 3.2.1 (8)          | 8.1.5 (9)<br>PP    | 7.1.6 (10)  | LO01  | 7.1.6 (11)<br>HA01, HA02, HA03, HA04, HA05, HA06 | 7.1.5 (12)<br>1             | 3.2.1 (13) |
|                  |                                      |               |                     |               |                  |                    |                                 |                    |                    |                    |             | LO01  | HA01, HA03, HA04, HA05, HA06                     |                             |            |
| 0379             | CASES, CARTRIDGE, EMPTY, WITH PRIMER | 1             | 1.4C                |               | 1.4              |                    | LQ                              | E0                 |                    | PP                 |             | LO01  | HA01, HA03, HA04, HA05, HA06                     | 1                           |            |
| 0380             | ARTICLES, PYROPHORIC                 | 1             | 1.2L                |               | 1                |                    | LQ                              | E0                 |                    | PP                 |             | LO01  | HA01, HA03, HA04, HA05, HA06                     | 3                           |            |
| 0381             | CARTRIDGES, POWER DEVICE             | 1             | 1.2C                |               | 1                |                    | LQ                              | E0                 |                    | PP                 |             | LO01  | HA01, HA03, HA04, HA05, HA06                     | 3                           |            |
| 3820             | COMPONENTS, EXPLOSIVE TRAIN, N.O.S.  | 1             | 1.2B                |               | 1                | 178<br>274         | LQ                              | E0                 |                    | PP                 |             | LO01  | HA01, HA02, HA03, HA04, HA05, HA06               | 3                           |            |
| 0383             | COMPONENTS, EXPLOSIVE TRAIN, N.O.S.  | 1             | 1.4B                |               | 1.4              | 178<br>274         | LQ                              | E0                 |                    | PP                 |             | LO01  | HA01, HA02, HA03, HA04, HA05, HA06               | 1                           |            |
| 0384             | COMPONENTS, EXPLOSIVE TRAIN, N.O.S.  | 1             | 1.4S                |               | 1.4              | 178<br>274         | LQ                              | E0                 |                    | PP                 |             | LO01  | HA01, HA03, HA04, HA05, HA06                     | 0                           |            |
| 0385             | 5-NITROBENZOTRIAZOL                  | 1             | 1.1D                |               | 1                |                    | LQ                              | E0                 |                    | PP                 |             | LO01  | HA01, HA02, HA03, HA04, HA05, HA06               | 3                           |            |

| UN No. or ID No. | Name and description   | Class    | Classification Code | Packing group | Labels    | Special provisions | Limited and excepted quantities |              | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage     |            | Number of blue cones/lights | Remarks |
|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |  |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (11)  | 7.1.5 (12) |                             |         |
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 0386             | TRINITROBENZENESULPHONIC ACID  | 1        | 1.1D                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0387             | TRINITROFLUORENONE   | 1        | 1.1D                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0388             | TRINITROTOLUENE (TNT) AND TRINITROBENZENE MIXTURE or TRINITROTOLUENE (TNT) AND HEXANITROSTILBENE MIXTURE   | 1        | 1.1D                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0389             | TRINITROTOLUENE (TNT) MIXTURE CONTAINING TRINITROBENZENE AND HEXANITROSTILBENE   | 1        | 1.1D                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0390             | TRITONAL   | 1        | 1.1D                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0391             | CYCLOTRIMETHYLENETRINITRAMINE (CYCLONITE; HEXOGEN; RDX) AND CYCLOTETRAMETHYLENE-TETRAMINE (HMX; OCTOGEN) MIXTURE, WETTED with not less than 15% water, by mass or DESENSITIZED with not less than 10% phlegmatizer by mass | 1        | 1.1D                |               | 1         | 266                | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0392             | HEXANITROSTILBENE  | 1        | 1.1D                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |

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|------------------|---|---------------|---------------------|---------------|----------------|--------------------|---------------------------------|--------------------|--------------------|--------------------|-------------|---|-----------------|-----------------------------|---------|
|                  |   |               |                     |               |                |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b)       |                    |                    |             | 7.1.6 (11)  | 7.1.6 (12)      |                             |         |
| 0393             | 3.1.2 (2)<br>HEXOTONAL  | 2.2 (3a)<br>1 | 2.2 (3b)<br>1.1D    | 2.1.1.3 (4)   | 5.2.2 (5)<br>1 | 3.3 (6)            | 3.4.6 (7a)<br>LQ                | 3.5.1.2 (7b)<br>E0 | 3.2.1 (8)          | 8.1.5 (9)<br>PP    | 7.1.6 (10)  | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 7.1.5 (12)<br>3 | 3.2.1 (13)                  |         |
| 0394             | TRINITRORESORCINOL (STYPHNIC ACID), WETTED with not less than 20% water, or mixture of alcohol and water, by mass | 1             | 1.1D                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0395             | ROCKET MOTORS, LIQUID FUELLED   | 1             | 1.2J                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0396             | ROCKET MOTORS, LIQUID FUELLED   | 1             | 1.3J                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0397             | ROCKETS, LIQUID FUELLED with bursting charge  | 1             | 1.1J                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0398             | ROCKETS, LIQUID FUELLED with bursting charge  | 1             | 1.2J                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0399             | BOMBS WITH FLAMMABLE LIQUID with bursting charge  | 1             | 1.1J                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0400             | BOMBS WITH FLAMMABLE LIQUID with bursting charge  | 1             | 1.2J                |               | 1              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |



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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |  |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (11)  | 7.1.5 (12) |                             |         |
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 0401             | DIPICRYL SULPHIDE, dry or wetted with less than 10% water, by mass | 1        | 1.1D                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0402             | AMMONIUM PERCHLORATE   | 1        | 1.1D                |               | 1         | 152                | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |
| 0403             | FLARES, AERIAL   | 1        | 1.4G                |               | 1.4       |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1          |                             |         |
| 0404             | FLARES, AERIAL   | 1        | 1.4S                |               | 1.4       |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 0          |                             |         |
| 0405             | CARTRIDGES, SIGNAL   | 1        | 1.4S                |               | 1.4       |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 0          |                             |         |
| 0406             | DINITROBENZENE   | 1        | 1.3C                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3          |                             |         |
| 0407             | TETRAZOL-1-ACETIC ACID   | 1        | 1.4C                |               | 1.4       |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1          |                             |         |
| 0408             | FUZES, DETONATING with protective features                         | 1        | 1.1D                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3          |                             |         |

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|------------------|---|----------|---------------------|---------------|------------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|---------------|
| (1)              | (2)   | (3a)     | (3b)                | (4)           | (5)        | (6)                | (7a)                            | (8)                | (9)                | (10)        | (11)  | (12)                        | (13)          |
| 0409             | 3.1.2<br>FUZES, DETONATING with protective features   | 2.2<br>1 | 2.2<br>1.2D         | 2.1.1.3       | 5.2.2<br>1 | 3.3                | 3.4.6<br>LQ<br>E0               | 3.2.1              | 8.1.5<br>PP        | 7.1.6       | 7.1.6<br>LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 7.1.5<br>3                  | 3.2.1<br>(13) |
| 0410             | FUZES, DETONATING with protective features  | 1        | 1.4D                |               | 1.4        |                    | LQ<br>E0                        |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1                           |               |
| 0411             | PENTAERYTHRITE TETRANITRATE<br>(PENTAERYTHRITOL TETRANITRATE;<br>PETN) with not less than 7% wax, by mass | 1        | 1.1D                |               | 1          | 131                | LQ<br>E0                        |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |               |
| 0412             | CARTRIDGES FOR WEAPONS with bursting charge   | 1        | 1.4E                |               | 1.4        |                    | LQ<br>E0                        |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1                           |               |
| 0413             | CARTRIDGES FOR WEAPONS, BLANK   | 1        | 1.2C                |               | 1          |                    | LQ<br>E0                        |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3                           |               |
| 0414             | CHARGES, PROPELLING, FOR CANNON   | 1        | 1.2C                |               | 1          |                    | LQ<br>E0                        |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3                           |               |
| 0415             | CHARGES, PROPELLING   | 1        | 1.2C                |               | 1          |                    | LQ<br>E0                        |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3                           |               |
| 0417             | CARTRIDGES FOR WEAPONS, INERT PROJECTILE or CARTRIDGES, SMALL ARMS  | 1        | 1.3C                |               | 1          |                    | LQ<br>E0                        |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3                           |               |

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|------------------|--|----------|---------------------|---------------|------------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|---------------|
| (1)              | (2)  | (3a)     | (3b)                | (4)           | (5)        | (6)                | (7a) (7b)                       | (8)                | (9)                | (10)        | (11)  | (12)                        | (13)          |
| 0418             | 3.1.2<br>FLARES, SURFACE                     | 2.2<br>1 | 1.1G                | 2.1.1.3       | 5.2.2<br>1 | 3.3                | 3.4.6<br>LQ<br>E0               | 3.2.1              | 8.1.5<br>PP        | 7.1.6       | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 7.1.5<br>3                  | 3.2.1<br>(13) |
| 0419             | FLARES, SURFACE                              | 1        | 1.2G                |               | 1          |                    | LQ<br>E0                        |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3                           |               |
| 0420             | FLARES, AERIAL                               | 1        | 1.1G                |               | 1          |                    | LQ<br>E0                        |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |               |
| 0421             | FLARES, AERIAL                               | 1        | 1.2G                |               | 1          |                    | LQ<br>E0                        |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3                           |               |
| 0424             | PROJECTILES, inert with tracer               | 1        | 1.3G                |               | 1          |                    | LQ<br>E0                        |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3                           |               |
| 0425             | PROJECTILES, inert with tracer               | 1        | 1.4G                |               | 1.4        |                    | LQ<br>E0                        |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1                           |               |
| 0426             | PROJECTILES with burster or expelling charge | 1        | 1.2F                |               | 1          |                    | LQ<br>E0                        |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |               |
| 0427             | PROJECTILES with burster or expelling charge | 1        | 1.4F                |               | 1.4        |                    | LQ<br>E0                        |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 1                           |               |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------------------------------|-----------------------------|---------|
|                  |  |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (11)  | 7.1.5 (12)                         |                             |         |
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                         | 3.2.1 (13)                  |         |
| 0428             | ARTICLES, PYROTECHNIC for technical purposes                               | 1        | 1.1G                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01  | HA01, HA02, HA03, HA04, HA05, HA06 | 3                           |         |
| 0429             | ARTICLES, PYROTECHNIC for technical purposes                               | 1        | 1.2G                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01  | HA01, HA03, HA04, HA05, HA06       | 3                           |         |
| 0430             | ARTICLES, PYROTECHNIC for technical purposes                               | 1        | 1.3G                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01  | HA01, HA03, HA04, HA05, HA06       | 3                           |         |
| 0431             | ARTICLES, PYROTECHNIC for technical purposes                               | 1        | 1.4G                |               | 1.4       |                    | LQ                              | E0           |                    | PP                 |             | LO01  | HA01, HA03, HA04, HA05, HA06       | 1                           |         |
| 0432             | ARTICLES, PYROTECHNIC for technical purposes                               | 1        | 1.4S                |               | 1.4       |                    | LQ                              | E0           |                    | PP                 |             | LO01  | HA01, HA03, HA04, HA05, HA06       | 0                           |         |
| 0433             | POWDER CAKE (POWDER PASTE), WETTED with not less than 17% alcohol, by mass | 1        | 1.1C                |               | 1         | 266                | LQ                              | E0           |                    | PP                 |             | LO01  | HA01, HA02, HA03, HA04, HA05, HA06 | 3                           |         |
| 0434             | PROJECTILES with burster or expelling charge                               | 1        | 1.2G                |               | 1         |                    | LQ                              | E0           |                    | PP                 |             | LO01  | HA01, HA03, HA04, HA05, HA06       | 3                           |         |
| 0435             | PROJECTILES with burster or expelling charge                               | 1        | 1.4G                |               | 1.4       |                    | LQ                              | E0           |                    | PP                 |             | LO01  | HA01, HA03, HA04, HA05, HA06       | 1                           |         |

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|------------------|--|---------------|---------------------|------------------|----------------|--------------------|---------------------------------|-----------------|--------------------|--------------------|--|---|------------|-----------------------------|---------|
|                  |  |               |                     |                  |                |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b)    |                    |                    |  | 7.1.6 (11)  | 7.1.5 (12) |                             |         |
| 0436             | 3.1.2 (2)<br>ROCKETS with expelling charge       | 2.2 (3a)<br>1 | 2.2 (3b)<br>1.2C    | 2.1.1.3 (4)<br>1 | 5.2.2 (5)<br>1 | 3.3 (6)<br>1       | LQ (7a)<br>E0 (7b)              | 3.2.1 (8)<br>E0 | 8.1.5 (9)<br>PP    | 7.1.6 (10)         | LO01 (11)<br>HA01, HA03, HA04, HA05, HA06  | 7.1.5 (12)<br>3                                       | 3.2.1 (13) |                             |         |
| 0437             | ROCKETS with expelling charge                    | 1             | 1.3C                |                  | 1              |                    | LQ<br>E0                        |                 | PP                 |                    | LO01<br>HA01, HA03, HA04, HA05, HA06       | 3   |            |                             |         |
| 0438             | ROCKETS with expelling charge                    | 1             | 1.4C                |                  | 1.4            |                    | LQ<br>E0                        |                 | PP                 |                    | LO01<br>HA01, HA03, HA04, HA05, HA06       | 1   |            |                             |         |
| 0439             | CHARGES, SHAPED, without detonator               | 1             | 1.2D                |                  | 1              |                    | LQ<br>E0                        |                 | PP                 |                    | LO01<br>HA01, HA03, HA04, HA05, HA06       | 3   |            |                             |         |
| 0440             | CHARGES, SHAPED, without detonator               | 1             | 1.4D                |                  | 1.4            |                    | LQ<br>E0                        |                 | PP                 |                    | LO01<br>HA01, HA03, HA04, HA05, HA06       | 1   |            |                             |         |
| 0441             | CHARGES, SHAPED, without detonator               | 1             | 1.4S                |                  | 1.4            |                    | LQ<br>E0                        |                 | PP                 |                    | LO01<br>HA01, HA03, HA04, HA05, HA06       | 0   |            |                             |         |
| 0442             | CHARGES, EXPLOSIVE, COMMERCIAL without detonator | 1             | 1.1D                |                  | 1              |                    | LQ<br>E0                        |                 | PP                 |                    | LO01<br>HA01, HA02, HA03, HA04, HA05, HA06 | 3   |            |                             |         |
| 0443             | CHARGES, EXPLOSIVE, COMMERCIAL without detonator | 1             | 1.2D                |                  | 1              |                    | LQ<br>E0                        |                 | PP                 |                    | LO01<br>HA01, HA03, HA04, HA05, HA06       | 3   |            |                             |         |
| 0444             | CHARGES, EXPLOSIVE, COMMERCIAL without detonator | 1             | 1.4D                |                  | 1.4            |                    | LQ<br>E0                        |                 | PP                 |                    | LO01<br>HA01, HA03, HA04, HA05, HA06       | 1   |            |                             |         |

| UN No. or ID No. | Name and description   | Class | Classification Code | Packing group | Labels | Special provisions | Limited and excepted quantities | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage     | Number of blue cones/lights | Remarks |
|------------------|--|-------|---------------------|---------------|--------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|---------|
| (1)              | (2)  | (3a)  | (3b)                | (4)           | (5)    | (6)                | (7a) (7b)                       | (8)                | (9)                | (10)        | (11)  | (12)                        | (13)    |
| 0445             | 3.1.2<br>CHARGES, EXPLOSIVE, COMMERCIAL<br>without detonator | 1     | 1.4S                |               | 1.4    |                    | LQ E0                           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 0                           |         |
| 0446             | CASES, COMBUSTIBLE, EMPTY, WITHOUT<br>PRIMER                 | 1     | 1.4C                |               | 1.4    |                    | LQ E0                           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1                           |         |
| 0447             | CASES, COMBUSTIBLE, EMPTY, WITHOUT<br>PRIMER                 | 1     | 1.3C                |               | 1      |                    | LQ E0                           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3                           |         |
| 0448             | 5-MERCAPTOTETRAZOL-1-ACETIC ACID                             | 1     | 1.4C                |               | 1.4    |                    | LQ E0                           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1                           |         |
| 0449             | TORPEDOES, LIQUID FUELLED with or<br>without bursting charge | 1     | 1.1J                |               | 1      |                    | LQ E0                           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |         |
| 0450             | TORPEDOES, LIQUID FUELLED with inert<br>head                 | 1     | 1.3J                |               | 1      |                    | LQ E0                           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3                           |         |
| 0451             | TORPEDOES with bursting charge                               | 1     | 1.1D                |               | 1      |                    | LQ E0                           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |         |
| 0452             | GRENADES, PRACTICE, hand or rifle                            | 1     | 1.4G                |               | 1.4    |                    | LQ E0                           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1                           |         |

| UN No. or ID No. | Name and description                  | Class         | Classification Code | Packing group      | Labels           | Special provisions | Limited and excepted quantities |                    | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage     |                 | Number of blue cones/lights | Remarks |
|------------------|---------------------------------------|---------------|---------------------|--------------------|------------------|--------------------|---------------------------------|--------------------|--------------------|--------------------|-------------|---|-----------------|-----------------------------|---------|
|                  |                                       |               |                     |                    |                  |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b)       |                    |                    |             | 7.1.6 (11)  | 7.1.5 (12)      |                             |         |
| 0453             | 3.1.2 (2)<br>ROCKETS, LINE-THROWING   | 2.2 (3a)<br>1 | 2.2 (3b)<br>1.4G    | 2.1.1.3 (4)<br>1.4 | 5.2.2 (5)<br>1.4 | 3.3 (6)            | 3.4.6 (7a)<br>LQ                | 3.5.1.2 (7b)<br>E0 | 3.2.1 (8)          | 8.1.5 (9)<br>PP    | 7.1.6 (10)  | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 7.1.5 (12)<br>1 | 3.2.1 (13)                  |         |
| 0454             | IGNITERS                              | 1             | 1.4S                |                    | 1.4              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 0               |                             |         |
| 0455             | DETONATORS, NON-ELECTRIC for blasting | 1             | 1.4S                |                    | 1.4              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 0               |                             |         |
| 0456             | DETONATORS, ELECTRIC for blasting     | 1             | 1.4S                |                    | 1.4              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 0               |                             |         |
| 0457             | CHARGES, BURSTING, PLASTICS BONDED    | 1             | 1.1D                |                    | 1                |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0458             | CHARGES, BURSTING, PLASTICS BONDED    | 1             | 1.2D                |                    | 1                |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0459             | CHARGES, BURSTING, PLASTICS BONDED    | 1             | 1.4D                |                    | 1.4              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1               |                             |         |
| 0460             | CHARGES, BURSTING, PLASTICS BONDED    | 1             | 1.4S                |                    | 1.4              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 0               |                             |         |

| UN No. or ID No. | Name and description                             | Class    | Classification Code | Packing group | Labels    | Special provisions | Limited and excepted quantities |              | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage |   | Number of blue cones/lights | Remarks    |
|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|---|-----------------------------|------------|
|                  |  |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (11)  | 7.1.5 (12)  |                             |            |
| 0461             | 3.1.2 (2)<br>COMPONENTS, EXPLOSIVE TRAIN, N.O.S. | 2.2 (3a) | 1.1B                | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 178<br>274                      | LQ           | E0                 | 3.2.1 (8)          | 8.1.5 (9)   | 7.1.6 (10)  | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 7.1.5 (12)                  | 3.2.1 (13) |
| 0462             | ARTICLES, EXPLOSIVE, N.O.S.                      | 1        | 1.1C                |               | 1         | 178<br>274         |                                 | LQ           | E0                 |                    | PP          |   | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |            |
| 0463             | ARTICLES, EXPLOSIVE, N.O.S.                      | 1        | 1.1D                |               | 1         | 178<br>274         |                                 | LQ           | E0                 |                    | PP          |   | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |            |
| 0464             | ARTICLES, EXPLOSIVE, N.O.S.                      | 1        | 1.1E                |               | 1         | 178<br>274         |                                 | LQ           | E0                 |                    | PP          |   | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |            |
| 0465             | ARTICLES, EXPLOSIVE, N.O.S.                      | 1        | 1.1F                |               | 1         | 178<br>274         |                                 | LQ           | E0                 |                    | PP          |   | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |            |
| 0466             | ARTICLES, EXPLOSIVE, N.O.S.                      | 1        | 1.2C                |               | 1         | 178<br>274         |                                 | LQ           | E0                 |                    | PP          |   | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3                           |            |
| 0467             | ARTICLES, EXPLOSIVE, N.O.S.                      | 1        | 1.2D                |               | 1         | 178<br>274         |                                 | LQ           | E0                 |                    | PP          |   | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3                           |            |
| 0468             | ARTICLES, EXPLOSIVE, N.O.S.                      | 1        | 1.2E                |               | 1         | 178<br>274         |                                 | LQ           | E0                 |                    | PP          |   | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3                           |            |



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|------------------|-------------------------------|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
|                  |                               |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             |   |                             |            |
| (1)              | 3.1.2 (2)                     | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 0469             | ARTICLES, EXPLOSIVE, N.O.S.   | 1        | 1.2F                |               | 1         | 178<br>274         | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |            |
| 0470             | ARTICLES, EXPLOSIVE, N.O.S.   | 1        | 1.3C                |               | 1         | 178<br>274         | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3                           |            |
| 0471             | ARTICLES, EXPLOSIVE, N.O.S.   | 1        | 1.4E                |               | 1.4       | 178<br>274         | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1                           |            |
| 0472             | ARTICLES, EXPLOSIVE, N.O.S.   | 1        | 1.4F                |               | 1.4       | 178<br>274         | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 1                           |            |
| 0473             | SUBSTANCES, EXPLOSIVE, N.O.S. | 1        | 1.1A                |               | 1         | 178<br>274         | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |            |
| 0474             | SUBSTANCES, EXPLOSIVE, N.O.S. | 1        | 1.1C                |               | 1         | 178<br>274         | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |            |
| 0475             | SUBSTANCES, EXPLOSIVE, N.O.S. | 1        | 1.1D                |               | 1         | 178<br>274         | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |            |
| 0476             | SUBSTANCES, EXPLOSIVE, N.O.S. | 1        | 1.1G                |               | 1         | 178<br>274         | LQ                              | E0           |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3                           |            |

| UN No. or ID No. | Name and description  | Class    | Classification Code | Packing group | Labels         | Special provisions    | Limited and excepted quantities |                    | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage     |                 | Number of blue cones/lights | Remarks |
|------------------|---|----------|---------------------|---------------|----------------|-----------------------|---------------------------------|--------------------|--------------------|--------------------|-------------|---|-----------------|-----------------------------|---------|
|                  |   |          |                     |               |                |                       | 3.4.6 (7a)                      | 3.5.1.2 (7b)       |                    |                    |             | 7.1.6 (11)  | 7.1.5 (12)      |                             |         |
| 0477             | 3.1.2 (2)<br>SUBSTANCES, EXPLOSIVE, N.O.S.                            | 2.2 (3a) | 2.2 (3b)<br>1.3C    | 2.1.1.3 (4)   | 5.2.2 (5)<br>1 | 3.3 (6)<br>178<br>274 | 3.4.6 (7a)<br>LQ                | 3.5.1.2 (7b)<br>E0 | 3.2.1 (8)          | 8.1.5 (9)<br>PP    | 7.1.6 (10)  | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 7.1.5 (12)<br>3 | 3.2.1 (13)                  |         |
| 0478             | SUBSTANCES, EXPLOSIVE, N.O.S.   | 1        | 1.3G                |               | 1              | 178<br>274            | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0479             | SUBSTANCES, EXPLOSIVE, N.O.S.   | 1        | 1.4C                |               | 1.4            | 178<br>274            | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1               |                             |         |
| 0480             | SUBSTANCES, EXPLOSIVE, N.O.S.   | 1        | 1.4D                |               | 1.4            | 178<br>274            | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1               |                             |         |
| 0481             | SUBSTANCES, EXPLOSIVE, N.O.S.   | 1        | 1.4S                |               | 1.4            | 178<br>274            | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 0               |                             |         |
| 0482             | SUBSTANCES, EXPLOSIVE, VERY INSENSITIVE (SUBSTANCES, EVI), N.O.S.     | 1        | 1.5D                |               | 1.5            | 178<br>274            | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0483             | CYCLOTRIMETHYLENETRINITRAMINE (CYCLONITE; HEXOGEN; RDX), DESENSITIZED | 1        | 1.1D                |               | 1              |                       | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0484             | CYCLOTETRAMETHYLENE-TETRAMINE (HMX; OCTOGEN), DESENSITIZED            | 1        | 1.1D                |               | 1              |                       | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |

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|------------------|--|---------------|---------------------|---------------|------------------|-----------------------|---------------------------------|--------------------|--------------------|--------------------|-------------|---|-----------------|-----------------------------|---------|
|                  |  |               |                     |               |                  |                       | 3.4.6 (7a)                      | 3.5.1.2 (7b)       |                    |                    |             | 7.1.6 (11)  | 7.1.6 (12)      |                             |         |
| 0485             | 3.1.2 (2)<br>SUBSTANCES, EXPLOSIVE, N.O.S.                 | 2.2 (3a)<br>1 | 2.2 (3b)<br>1.4G    | 2.1.1.3 (4)   | 5.2.2 (5)<br>1.4 | 3.3 (6)<br>178<br>274 | 3.4.6 (7a)<br>LQ                | 3.5.1.2 (7b)<br>E0 | 3.2.1 (8)          | 8.1.5 (9)<br>PP    | 7.1.6 (10)  | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 7.1.5 (12)<br>1 | 3.2.1 (13)                  |         |
| 0486             | ARTICLES, EXPLOSIVE, EXTREMELY INSENSITIVE (ARTICLES, EEI) | 1             | 1.6N                |               | 1.6              |                       | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0487             | SIGNALS, SMOKE   | 1             | 1.3G                |               | 1                |                       | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0488             | AMMUNITION, PRACTICE                                       | 1             | 1.3G                |               | 1                |                       | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0489             | DINITROGLYCOLURIL (DINGU)                                  | 1             | 1.1D                |               | 1                |                       | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0490             | NITROTRIAZOLONE (NTO)                                      | 1             | 1.1D                |               | 1                |                       | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0491             | CHARGES, PROPELLING  | 1             | 1.4C                |               | 1.4              |                       | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1               |                             |         |
| 0492             | SIGNALS, RAILWAY TRACK, EXPLOSIVE                          | 1             | 1.3G                |               | 1                |                       | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |

| UN No. or ID No. | Name and description                                       | Class         | Classification Code | Packing group      | Labels           | Special provisions | Limited and excepted quantities |                    | Carriage permitted | Equipment required | Ventilation        | Provisions concerning loading, unloading and carriage |                 | Number of blue cones/lights | Remarks |
|------------------|--|---------------|---------------------|--------------------|------------------|--------------------|---------------------------------|--------------------|--------------------|--------------------|--------------------|---|-----------------|-----------------------------|---------|
|                  |  |               |                     |                    |                  |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b)       |                    |                    |                    | 7.1.6 (11)  | 7.1.5 (12)      |                             |         |
| 0493             | 3.1.2 (2)<br>SIGNALS, RAILWAY TRACK, EXPLOSIVE             | 2.2 (3a)<br>1 | 2.2 (3b)<br>1.4G    | 2.1.1.3 (4)<br>1.4 | 5.2.2 (5)<br>1.4 | 3.3 (6)<br>224     | 3.4.6 (7a)<br>LQ                | 3.5.1.2 (7b)<br>E0 | 3.2.1 (8)<br>3.2.1 | 8.1.5 (9)<br>PP    | 7.1.6 (10)<br>LO01 | 7.1.6 (11)<br>HA01, HA03, HA04, HA05, HA06            | 7.1.5 (12)<br>1 | 3.2.1 (13)                  |         |
| 0494             | JET PERFORATING GUNS, CHARGED, oil well, without detonator | 1             | 1.4D                |                    | 1.4              |                    | LQ                              | E0                 |                    | PP                 |                    |   | 1               |                             |         |
| 0495             | PROPELLANT, LIQUID   | 1             | 1.3C                |                    | 1                | 224                | LQ                              | E0                 |                    | PP                 |                    |   | 3               |                             |         |
| 0496             | OCTONAL  | 1             | 1.1D                |                    | 1                |                    | LQ                              | E0                 |                    | PP                 |                    |   | 3               |                             |         |
| 0497             | PROPELLANT, LIQUID   | 1             | 1.1C                |                    | 1                | 224                | LQ                              | E0                 |                    | PP                 |                    |   | 3               |                             |         |
| 0498             | PROPELLANT, SOLID  | 1             | 1.1C                |                    | 1                |                    | LQ                              | E0                 |                    | PP                 |                    |   | 3               |                             |         |
| 0499             | PROPELLANT, SOLID  | 1             | 1.3C                |                    | 1                |                    | LQ                              | E0                 |                    | PP                 |                    |   | 3               |                             |         |
| 0500             | DETONATOR ASSEMBLIES, NON-ELECTRIC for blasting            | 1             | 1.4S                |                    | 1.4              |                    | LQ                              | E0                 |                    | PP                 |                    |   | 0               |                             |         |

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|------------------|---|---------------|---------------------|---------------|------------------|--------------------|---------------------------------|--------------------|--------------------|--------------------|-------------|---|-----------------|-----------------------------|---------|
|                  |   |               |                     |               |                  |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b)       |                    |                    |             | 7.1.6 (11)  | 7.1.5 (12)      |                             |         |
| 0501             | 3.1.2 (2)<br>PROPELLANT, SOLID  | 2.2 (3a)<br>1 | 2.2 (3b)<br>1.4C    | 2.1.1.3 (4)   | 5.2.2 (5)<br>1.4 | 3.3 (6)            | 3.4.6 (7a)<br>LQ                | 3.5.1.2 (7b)<br>E0 | 3.2.1 (8)          | 8.1.5 (9)<br>PP    | 7.1.6 (10)  | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 7.1.5 (12)<br>1 | 3.2.1 (13)                  |         |
| 0502             | ROCKETS with inert head   | 1             | 1.2C                |               | 1                |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 0503             | AIR BAG INFLATORS or AIR BAG MODULES or SEAT-BELT PRETENSIONERS                     | 1             | 1.4G                |               | 1.4              | 235<br>289         | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1               |                             |         |
| 0504             | 1H-TETRAZOLE  | 1             | 1.1D                |               | 1                |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA02,<br>HA03,<br>HA04,<br>HA05,<br>HA06 | 3               |                             |         |
| 0505             | SIGNALS, DISTRESS, ship   | 1             | 1.4G                |               | 1.4              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 1               |                             |         |
| 0506             | SIGNALS, DISTRESS, ship   | 1             | 1.4S                |               | 1.4              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 0               |                             |         |
| 0507             | SIGNALS, SMOKE  | 1             | 1.4S                |               | 1.4              |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 0               |                             |         |
| 0508             | 1-HYDROXY-BENZOTRIAZOLE, ANHYDROUS, dry or wetted with less than 20% water, by mass | 1             | 1.3C                |               | 1                |                    | LQ                              | E0                 |                    | PP                 |             | LO01<br>HA01,<br>HA03,<br>HA04,<br>HA05,<br>HA06          | 3               |                             |         |
| 1001             | ACETYLENE, DISSOLVED  | 2             | 4F                  |               | 2.1              |                    | LQ                              | E0                 |                    | PP, EX. A          | VE01        |   | 1               |                             |         |
| 1002             | AIR, COMPRESSED   | 2             | 1A                  |               | 2.2              | 292                | LQ                              | E1                 |                    | PP                 |             |   | 0               |                             |         |
| 1003             | AIR, REFRIGERATED LIQUID  | 2             | 30                  |               | 2.2+5.1          |                    | LQ                              | E0                 |                    | PP                 |             |   | 0               |                             |         |
| 1005             | AMMONIA, ANHYDROUS  | 2             | 2TC                 |               | 2.3+8            | 23                 | LQ                              | E0                 | T                  | PP, EP, TOX, A     | VE02        |   | 2               |                             |         |

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|------------------|---|-------|---------------------|---------------|--------------|--------------------|---------------------------------|--------------------|--------------------|--------------------|---|-----------------------------|---------|-------|
| (1)              | (2)   | (3a)  | (3b)                | (4)           | (5)          | (6)                | (7a)                            | (7b)               | (8)                | (9)                | (10)  | (11)                        | (12)    | (13)  |
| 1006             | 3.1.2 ARGON, COMPRESSED   | 2     | 2.2                 | 2.1.1.3       | 5.2.2        | 3.3                | 3.4.6                           | 3.5.1.2            | 3.2.1              | 8.1.5              | 7.1.6   | 7.1.6                       | 7.1.5   | 3.2.1 |
| 1008             | BORON TRIFLUORIDE   | 2     | 2TC                 |               | 2.2<br>2.3+8 |                    | LQ1                             | E1                 |                    | PP                 | VE02  |                             | 0       |       |
| 1009             | BROMOTRIFLUOROMETHANE (REFRIGERANT GAS R 13B1)  | 2     | 2A                  |               | 2.2          |                    | LQ1                             | E1                 |                    | PP                 |   |                             | 0       |       |
| 1010             | BUTADIENES, STABILIZED or BUTADIENES AND HYDROCARBON MIXTURE, STABILIZED, having a vapour pressure at 70 °C not exceeding 1.1 MPa (11 bar) and a density at 50 °C not lower than 0.525 kg/l | 2     | 2F                  |               | 2.1          | 618                | LQ0                             | E0                 | T                  | PP, EX, A          | VE01  |                             | 1       |       |
| 1011             | BUTANE  | 2     | 2F                  |               | 2.1          |                    | LQ0                             | E0                 | T                  | PP, EX, A          | VE01  |                             | 1       |       |
| 1012             | BUTYLENES MIXTURE or 1-BUTYLENE or CIS-2-BUTYLENE or TRANS-2-BUTYLENE   | 2     | 2F                  |               | 2.1          |                    | LQ0                             | E0                 | T                  | PP, EX, A          | VE01  |                             | 1       |       |
| 1013             | CARBON DIOXIDE  | 2     | 2A                  |               | 2.2          | 584<br>653         | LQ1                             | E1                 |                    | PP                 |   |                             | 0       |       |
| 1016             | CARBON MONOXIDE, COMPRESSED   | 2     | 1TF                 |               | 2.3+2.1      |                    | LQ0                             | E0                 |                    | PP, EP, EX, TOX, A | VE01,<br>VE02   |                             | 2       |       |
| 1017             | CHLORINE  | 2     | 2TOC                |               | 2.3+5.1+8    |                    | LQ0                             | E0                 |                    | PP, EP, TOX, A     | VE02  |                             | 2       |       |
| 1018             | CHLORODIFLUOROMETHANE (REFRIGERANT GAS R 22)  | 2     | 2A                  |               | 2.2          |                    | LQ1                             | E1                 |                    | PP                 |   |                             | 0       |       |
| 1020             | CHLOROPENTAFLUOROETHANE (REFRIGERANT GAS R 115)   | 2     | 2A                  |               | 2.2          |                    | LQ1                             | E1                 | T                  | PP                 |   |                             | 0       |       |
| 1021             | 1-CHLORO-1,2,2,2-TETRAFLUOROETHANE (REFRIGERANT GAS R 124)  | 2     | 2A                  |               | 2.2          |                    | LQ1                             | E1                 |                    | PP                 |   |                             | 0       |       |
| 1022             | CHLOROTRIFLUOROMETHANE (REFRIGERANT GAS R 13)   | 2     | 2A                  |               | 2.2          |                    | LQ1                             | E1                 |                    | PP                 |   |                             | 0       |       |
| 1023             | COAL GAS, COMPRESSED  | 2     | 1TF                 |               | 2.3+2.1      |                    | LQ0                             | E0                 |                    | PP, EP, EX, TOX, A | VE01,<br>VE02   |                             | 2       |       |
| 1026             | CYANOGEN  | 2     | 2TF                 |               | 2.3+2.1      |                    | LQ0                             | E0                 |                    | PP, EP, EX, TOX, A | VE01,<br>VE02   |                             | 2       |       |
| 1027             | CYCLOPROPANE  | 2     | 2F                  |               | 2.1          |                    | LQ0                             | E0                 |                    | PP, EX, A          | VE01  |                             | 1       |       |
| 1028             | DICHLORODIFLUOROMETHANE (REFRIGERANT GAS R 12)  | 2     | 2A                  |               | 2.2          |                    | LQ1                             | E1                 |                    | PP                 |   |                             | 0       |       |
| 1029             | DICHLOROFUOROMETHANE (REFRIGERANT GAS R 21)   | 2     | 2A                  |               | 2.2          |                    | LQ1                             | E1                 |                    | PP                 |   |                             | 0       |       |
| 1030             | 1,1-DIFLUOROETHANE (REFRIGERANT GAS R 152a)   | 2     | 2F                  |               | 2.1          |                    | LQ0                             | E0                 | T                  | PP, EX, A          | VE01  |                             | 1       |       |
| 1032             | DIMETHYLAMINE, ANHYDROUS  | 2     | 2F                  |               | 2.1          |                    | LQ0                             | E0                 |                    | PP, EX, A          | VE01  |                             | 1       |       |
| 1033             | DIMETHYL ETHER  | 2     | 2F                  |               | 2.1          |                    | LQ0                             | E0                 | T                  | PP, EX, A          | VE01  |                             | 1       |       |
| 1035             | ETHANE  | 2     | 2F                  |               | 2.1          |                    | LQ0                             | E0                 |                    | PP, EX, A          | VE01  |                             | 1       |       |
| 1036             | ETHYLAMINE  | 2     | 2F                  |               | 2.1          |                    | LQ0                             | E0                 |                    | PP, EX, A          | VE01  |                             | 1       |       |
| 1037             | ETHYL CHLORIDE  | 2     | 2F                  |               | 2.1          |                    | LQ0                             | E0                 |                    | PP, EX, A          | VE01  |                             | 1       |       |
| 1038             | ETHYLENE, REFRIGERATED LIQUID   | 2     | 3F                  |               | 2.1          |                    | LQ0                             | E0                 |                    | PP, EX, A          | VE01  |                             | 1       |       |
| 1039             | ETHYL METHYL ETHER  | 2     | 2F                  |               | 2.1          |                    | LQ0                             | E0                 |                    | PP, EX, A          | VE01  |                             | 1       |       |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a) 3.5.1.2 (7b)         | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 1040             | ETHYLENE OXIDE   | 2        | 2TF                 |               | 2.3+2.1   |                    | LQ0 E0                          |                    | PP, EP, EX, TOX. A | VE01, VE02  |   | 2                           |            |
| 1040             | ETHYLENE OXIDE WITH NITROGEN up to a total pressure of 1 MPa (10 bar) at 50 °C                   | 2        | 2TF                 |               | 2.3+2.1   |                    | LQ0 E0                          | T                  | PP, EP, EX, TOX. A | VE01, VE02  |   | 2                           |            |
| 1041             | ETHYLENE OXIDE AND CARBON DIOXIDE MIXTURE with more than 9% but not more than 87% ethylene oxide | 2        | 2F                  |               | 2.1       |                    | LQ0 E0                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1043             | FERTILIZER AMMONIATING SOLUTION with free ammonia  | 2        | 4A                  |               | 2.2       |                    | LQ1 E0                          |                    | PP                 |             |   | 0                           |            |
| 1044             | FIRE EXTINGUISHERS with compressed or liquefied gas  | 2        | 6A                  |               | 2.2       | 225 594            | LQ0 E0                          |                    | PP                 |             |   | 0                           |            |
| 1045             | FLUORINE, COMPRESSED   | 2        | 1TOC                |               | 2.3+5.1+8 |                    | LQ0 E0                          |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1046             | HELIUM, COMPRESSED   | 2        | 1A                  |               | 2.2       |                    | LQ1 E1                          |                    | PP                 |             |   | 0                           |            |
| 1048             | HYDROGEN BROMIDE, ANHYDROUS  | 2        | 2TC                 |               | 2.3+8     |                    | LQ0 E0                          |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1049             | HYDROGEN, COMPRESSED   | 2        | 1F                  |               | 2.1       |                    | LQ0 E0                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1050             | HYDROGEN CHLORIDE, ANHYDROUS   | 2        | 2TC                 |               | 2.3+8     |                    | LQ0 E0                          |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1051             | HYDROGEN CYANIDE, STABILIZED containing less than 3% water                                       | 6.1      | TF1                 | 1             | 6.1+3     | 603 802            | LQ0 E5                          |                    | PP, EP, EX, TOX. A | VE01, VE02  |   | 2                           |            |
| 1052             | HYDROGEN FLUORIDE, ANHYDROUS   | 8        | CT1                 | 1             | 8+6.1     | 802                | LQ0 E0                          |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1053             | HYDROGEN SULPHIDE  | 2        | 2TF                 |               | 2.3+2.1   |                    | LQ0 E0                          |                    | PP, EP, EX, TOX. A | VE01, VE02  |   | 2                           |            |
| 1055             | ISOBUTYLENE  | 2        | 2F                  |               | 2.1       |                    | LQ0 E0                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1056             | KRYPTON, COMPRESSED  | 2        | 1A                  |               | 2.2       |                    | LQ1 E1                          |                    | PP                 |             |   | 0                           |            |
| 1057             | LIGHTERS or LIGHTER REFILLS containing flammable gas   | 2        | 6F                  |               | 2.1       | 201 654            | LQ0 E0                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1058             | LIQUEFIED GASES, non-flammable, charged with nitrogen, carbon dioxide or air                     | 2        | 2A                  |               | 2.2       |                    | LQ1 E1                          |                    | PP                 |             |   | 0                           |            |
| 1060             | METHYLACETYLENE AND PROPADIENE MIXTURE, STABILIZED such as mixture P1 or mixture P2              | 2        | 2F                  |               | 2.1       | 581                | LQ0 E0                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1061             | METHYLAMINE, ANHYDROUS   | 2        | 2F                  |               | 2.1       |                    | LQ0 E0                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1062             | METHYL BROMIDE with not more than 2% chloropicrin  | 2        | 2T                  |               | 2.3       | 23                 | LQ0 E0                          |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1063             | METHYL CHLORIDE (REFRIGERANT GAS R 40)   | 2        | 2F                  |               | 2.1       |                    | LQ0 E0                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1064             | METHYL MERCAPTAN   | 2        | 2TF                 |               | 2.3+2.1   |                    | LQ0 E0                          |                    | PP, EP, EX, TOX. A | VE01, VE02  |   | 2                           |            |
| 1065             | NEON, COMPRESSED   | 2        | 1A                  |               | 2.2       |                    | LQ1 E1                          |                    | PP                 |             |   | 0                           |            |
| 1066             | NITROGEN, COMPRESSED   | 2        | 1A                  |               | 2.2       |                    | LQ1 E1                          |                    | PP                 |             |   | 0                           |            |
| 1067             | DINITROGEN TETROXIDE (NITROGEN DIOXIDE)  | 2        | 2TOC                |               | 2.3+5.1+8 |                    | LQ0 E0                          |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |

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|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a) 3.5.1.2 (7b)         | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 1069             | NITROSYL CHLORIDE   | 2        | 2TC                 |               | 2.3+8     |                    | LQ0 E0                          |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1070             | NITROUS OXIDE   | 2        | 2O                  |               | 2.2+5.1   | 584                | LQ0 E0                          |                    | PP                 |             |   | 0                           |            |
| 1071             | OIL GAS, COMPRESSED   | 2        | 1TF                 |               | 2.3+2.1   |                    | LQ0 E0                          |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 1072             | OXYGEN, COMPRESSED  | 2        | 1O                  |               | 2.2+5.1   |                    | LQ0 E0                          |                    | PP                 |             |   | 0                           |            |
| 1073             | OXYGEN, REFRIGERATED LIQUID   | 2        | 3O                  |               | 2.2+5.1   |                    | LQ0 E0                          |                    | PP                 |             |   | 0                           |            |
| 1075             | PETROLEUM GASES, LIQUEFIED  | 2        | 2F                  |               | 2.1       | 274 583            | LQ0 E0                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1076             | PHOSGENE  | 2        | 2TC                 |               | 2.3+8     | 639                | LQ0 E0                          |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1077             | PROPYLENE   | 2        | 2F                  |               | 2.1       |                    | LQ0 E0                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1078             | REFRIGERANT GAS, N.O.S., such as mixture F1, mixture F2 or mixture F3 | 2        | 2A                  |               | 2.2       | 274                | LQ1 E1                          |                    | PP                 |             |   | 0                           |            |
| 1079             | SULPHUR DIOXIDE   | 2        | 2TC                 |               | 2.3+8     | 582                | LQ0 E0                          |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1080             | SULPHUR HEXAFLUORIDE  | 2        | 2A                  |               | 2.2       |                    | LQ1 E1                          |                    | PP                 |             |   | 0                           |            |
| 1081             | TETRAFLUOROETHYLENE, STABILIZED                                       | 2        | 2F                  |               | 2.1       |                    | LQ0 E0                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1082             | TRIFLUOROCHLOROETHYLENE, STABILIZED                                   | 2        | 2TF                 |               | 2.3+2.1   |                    | LQ0 E0                          |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 1083             | TRIMETHYLAMINE, ANHYDROUS   | 2        | 2F                  |               | 2.1       |                    | LQ0 E0                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1085             | VINYL BROMIDE, STABILIZED   | 2        | 2F                  |               | 2.1       |                    | LQ0 E0                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1086             | VINYL CHLORIDE, STABILIZED  | 2        | 2F                  |               | 2.1       |                    | LQ0 E0                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1087             | VINYL METHYL ETHER, STABILIZED  | 2        | 2F                  |               | 2.1       |                    | LQ0 E0                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1088             | ACETAL  | 3        | F1                  | II            | 3         |                    | LQ4 E2                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1089             | ACETALDEHYDE  | 3        | F1                  | I             | 3         |                    | LQ3 E3                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1090             | ACETONE   | 3        | F1                  | II            | 3         |                    | LQ4 E2                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1091             | ACETONE OILS  | 3        | F1                  | II            | 3         |                    | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1092             | ACROLEIN, STABILIZED  | 6.1      | TF1                 | I             | 6.1+3     | 802                | LQ0 E5                          | T                  | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 1093             | ACRYLONITRILE, STABILIZED   | 3        | FT1                 | I             | 3+6.1     | 802                | LQ0 E0                          | T                  | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 1098             | ALLYL ALCOHOL   | 6.1      | TF1                 | I             | 6.1+3     | 802                | LQ0 E5                          | T                  | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 1099             | ALLYL BROMIDE   | 3        | FT1                 | I             | 3+6.1     | 802                | LQ0 E0                          |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 1100             | ALLYL CHLORIDE  | 3        | FT1                 | I             | 3+6.1     | 802                | LQ0 E0                          | T                  | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 1104             | AMYL ACETATES   | 3        | F1                  | III           | 3         |                    | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1105             | PENTANOLS   | 3        | F1                  | II            | 3         |                    | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1105             | PENTANOLS   | 3        | F1                  | III           | 3         |                    | LQ7 E1                          | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 1106             | AMYLAMINE   | 3        | FC                  | II            | 3+8       |                    | LQ4 E2                          | T                  | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 1106             | AMYLAMINE   | 3        | FC                  | III           | 3+8       |                    | LQ7 E1                          |                    | PP, EP, EX, A      | VE01        |   | 0                           |            |
| 1107             | AMYL CHLORIDE   | 3        | F1                  | II            | 3         |                    | LQ4 E2                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1108             | 1-PENTENE (n-AMYLENE)   | 3        | F1                  | I             | 3         |                    | LQ3 E3                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |



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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a) 3.5.1.2 (7b)         | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 1109             | AMYL FORMATES  | 3        | FI                  | III           | 3         |                    | LQ7                             |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1110             | n-AMYL METHYL KETONE   | 3        | FI                  | III           | 3         |                    | LQ7                             |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1111             | AMYL MERCAPTAN   | 3        | FI                  | II            | 3         |                    | LQ4                             |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1112             | AMYL NITRATE   | 3        | FI                  | III           | 3         |                    | LQ7                             |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1113             | AMYL NITRITE   | 3        | FI                  | II            | 3         |                    | LQ4                             | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1114             | BENZENE  | 3        | FI                  | II            | 3         |                    | LQ4                             | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1120             | BUTANOLS   | 3        | FI                  | II            | 3         |                    | LQ4                             | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1120             | BUTANOLS   | 3        | FI                  | III           | 3         |                    | LQ7                             | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 1123             | BUTYL ACETATES   | 3        | FI                  | II            | 3         |                    | LQ4                             | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1123             | BUTYL ACETATES   | 3        | FI                  | III           | 3         |                    | LQ7                             | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 1125             | n-BUTYLAMINE   | 3        | FC                  | II            | 3+8       |                    | LQ4                             | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1126             | 1-BROMOBUTANE  | 3        | FI                  | II            | 3         |                    | LQ4                             |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1127             | CHLOROBUTANES  | 3        | FI                  | II            | 3         |                    | LQ4                             | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1128             | n-BUTYL FORMATE  | 3        | FI                  | II            | 3         |                    | LQ4                             |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1129             | BUTYRALDEHYDE  | 3        | FI                  | II            | 3         |                    | LQ4                             | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1130             | CAMPHOR OIL  | 3        | FI                  | III           | 3         |                    | LQ7                             |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1131             | CARBON DISULPHIDE  | 3        | FT1                 | I             | 3+6.1     | 802                | LQ0                             | T                  | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 1133             | ADHESIVES containing flammable liquid  | 3        | FI                  | I             | 3         |                    | LQ3                             |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1133             | ADHESIVES containing flammable liquid (vapour pressure at 50 °C more than 110 kPa)   | 3        | FI                  | II            | 3         | 640C               | LQ6                             |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1133             | ADHESIVES containing flammable liquid (vapour pressure at 50 °C not more than 110 kPa)   | 3        | FI                  | II            | 3         | 640D               | LQ6                             |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1133             | ADHESIVES containing flammable liquid  | 3        | FI                  | III           | 3         | 640E               | LQ7                             |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1133             | ADHESIVES containing flammable liquid (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (boiling point not more than 35° C)  | 3        | FI                  | III           | 3         | 640F               | LQ7                             |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1133             | ADHESIVES containing flammable liquid (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C more than 110 kPa, boiling point of more than 35° C) | 3        | FI                  | III           | 3         | 640G               | LQ7                             |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1133             | ADHESIVES containing flammable liquid (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C not more than 110 kPa)                               | 3        | FI                  | III           | 3         | 640H               | LQ7                             |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1134             | CHLOROBENZENE  | 3        | FI                  | III           | 3         |                    | LQ7                             | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 1135             | ETHYLENE CHLOROHYDRIN  | 6.1      | TF1                 | I             | 6.1+3     | 802                | LQ0                             | T                  | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 1136             | COAL TAR DISTILLATES, FLAMMABLE  | 3        | FI                  | II            | 3         |                    | LQ4                             |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1136             | COAL TAR DISTILLATES, FLAMMABLE  | 3        | FI                  | III           | 3         |                    | LQ7                             |                    | PP, EX, A          | VE01        |   | 0                           |            |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 1139             | COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle under coating, drum or barrel lining)  | 3        | F1                  | I             | 3         |                    | LQ3                             | E3                 | PP, EX, A          | VE01        |   | 1                           |            |
| 1139             | COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle under coating, drum or barrel lining) (vapour pressure at 50 °C more than 110 kPa)   | 3        | F1                  | II            | 3         | 640C               | LQ6                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 1139             | COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle under coating, drum or barrel lining) (vapour pressure at 50 °C not more than 110 kPa)   | 3        | F1                  | II            | 3         | 640D               | LQ6                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 1139             | COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle under coating, drum or barrel lining)  | 3        | F1                  | III           | 3         | 640E               | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |            |
| 1139             | COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle under coating, drum or barrel lining) (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (boiling point not more than 35 °C)                          | 3        | F1                  | III           | 3         | 640F               | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |            |
| 1139             | COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle under coating, drum or barrel lining) (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C, boiling point of more than 35 °C) | 3        | F1                  | III           | 3         | 640G               | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |            |
| 1139             | COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle under coating, drum or barrel lining) (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C not more than 110 kPa)             | 3        | F1                  | III           | 3         | 640H               | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |            |
| 1143             | CROTONALDEHYDE or CROTONALDEHYDE, STABILIZED   | 6.1      | TF1                 | I             | 6.1+3     | 324<br>802         | LQ0                             | E5                 | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 1144             | CROTONYLENE  | 3        | F1                  | I             | 3         |                    | LQ3                             | E3                 | PP, EX, A          | VE01        |   | 1                           |            |
| 1145             | CYCLOHEXANE  | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 1146             | CYCLOPENTANE   | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 1147             | DECAHYDRO-NAPHTHALENE  | 3        | F1                  | III           | 3         |                    | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |            |
| 1148             | DIACETONE ALCOHOL  | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 1148             | DIACETONE ALCOHOL  | 3        | F1                  | III           | 3         |                    | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |            |

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|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a) 3.5.1.2 (7b)         | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 1149             | DIBUTYLEETHERS  | 3        | F1                  | III           | 3         |                    | LQ7 E1                          | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 1150             | 1,2-DICHLOROETHYLENE  | 3        | F1                  | II            | 3         |                    | LQ4 E2                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1152             | DICHLOROPENTANES  | 3        | F1                  | III           | 3         |                    | LQ7 E1                          | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 1153             | ETHYLENE GLYCOL DIETHYL ETHER   | 3        | F1                  | II            | 3         |                    | LQ4 E2                          | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 1153             | ETHYLENE GLYCOL DIETHYL ETHER   | 3        | F1                  | III           | 3         |                    | LQ7 E1                          | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 1154             | DIETHYLAMINE  | 3        | FC                  | II            | 3+8       |                    | LQ4 E2                          | T                  | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 1155             | DIETHYLETHER (ETHYL ETHER)  | 3        | F1                  | I             | 3         |                    | LQ3 E3                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1156             | DIETHYL KETONE  | 3        | F1                  | II            | 3         |                    | LQ4 E2                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1157             | DIISOBUTYL KETONE   | 3        | F1                  | III           | 3         |                    | LQ7 E1                          | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 1158             | DIISOPROPYLAMINE  | 3        | FC                  | II            | 3+8       |                    | LQ4 E2                          | T                  | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 1159             | DIISOPROPYL ETHER   | 3        | F1                  | II            | 3         |                    | LQ4 E2                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1160             | DIMETHYLAMINE AQUEOUS SOLUTION  | 3        | FC                  | II            | 3+8       |                    | LQ4 E2                          | T                  | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 1161             | DIMETHYL CARBONATE  | 3        | F1                  | II            | 3         |                    | LQ4 E2                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1162             | DIMETHYLDICHLOROSILANE  | 3        | FC                  | II            | 3+8       |                    | LQ4 E2                          | T                  | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 1163             | DIMETHYLHYDRAZINE, UNSYMMETRICAL  | 6.1      | TFC                 | I             | 6.1+3+8   | 802                | LQ0 E5                          | T                  | PP, EP, EX, TOX, A | VE01, VEO2  |   | 2                           |            |
| 1164             | DIMETHYL SULPHIDE   | 3        | F1                  | II            | 3         |                    | LQ4 E2                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1165             | DIOXANE   | 3        | F1                  | II            | 3         |                    | LQ4 E2                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1166             | DIOXOLANE   | 3        | F1                  | II            | 3         |                    | LQ4 E2                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1167             | DIVINYLETHER, STABILIZED  | 3        | F1                  | I             | 3         |                    | LQ3 E3                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1169             | EXTRACTS, AROMATIC, LIQUID  | 3        | F1                  | I             | 3         |                    | LQ3 E3                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1169             | EXTRACTS, AROMATIC, LIQUID (vapour pressure at 50 °C more than 110 kPa)   | 3        | F1                  | II            | 3         | 601 640C           | LQ6 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1169             | EXTRACTS, AROMATIC, LIQUID (vapour pressure at 50 °C not more than 110 kPa)   | 3        | F1                  | II            | 3         | 601 640D           | LQ6 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1169             | EXTRACTS, AROMATIC, LIQUID  | 3        | F1                  | III           | 3         | 601 640E           | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1169             | EXTRACTS, AROMATIC, LIQUID (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (boiling point not more than 35 °C)  | 3        | F1                  | III           | 3         | 601 640F           | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1169             | EXTRACTS, AROMATIC, LIQUID (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C more than 110 kPa, boiling point of more than 35 °C) | 3        | F1                  | III           | 3         | 601 640G           | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1169             | EXTRACTS, AROMATIC, LIQUID (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C not more than 110 kPa)                               | 3        | F1                  | III           | 3         | 601 640H           | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1170             | ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)  | 3        | F1                  | II            | 3         | 144 601            | LQ4 E2                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1170             | ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)   | 3        | F1                  | III           | 3         | 144 601            | LQ7 E1                          | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 1171             | ETHYLENE GLYCOL MONOETHYL ETHER   | 3        | F1                  | III           | 3         |                    | LQ7 E1                          | T                  | PP, EX, A          | VE01        |   | 0                           |            |

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|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a) 3.4.6 (7b)           | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 1172             | ETHYLENE GLYCOL MONOETHYL ETHER ACETATE   | 3        | F1                  | III           | 3         |                    | LQ7 E1                          | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 1173             | ETHYL ACETATE   | 3        | F1                  | II            | 3         |                    | LQ4 E2                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1175             | ETHYLBENZENE  | 3        | F1                  | II            | 3         |                    | LQ4 E2                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1176             | ETHYL BORATE  | 3        | F1                  | II            | 3         |                    | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1177             | 2-ETHYLBUTYL ACETATE  | 3        | F1                  | III           | 3         |                    | LQ7 E1                          | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 1178             | 2-ETHYLBUTYRALDEHYDE  | 3        | F1                  | II            | 3         |                    | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1179             | ETHYL BUTYL ETHER   | 3        | F1                  | II            | 3         |                    | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1180             | ETHYL BUTYRATE  | 3        | F1                  | III           | 3         |                    | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1181             | ETHYL CHLOROACETATE   | 6.1      | TF1                 | II            | 6.1+3     | 802                | LQ17 E4                         |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 1182             | ETHYL CHLOROFORMATE   | 6.1      | TFC                 | I             | 6.1+3+8   | 802                | LQ0 E5                          |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 1183             | ETHYLDICHLOROSILANE   | 4.3      | WFC                 | I             | 4.3+3+8   |                    | LQ0 E0                          |                    | PP, EP, EX, A      | VE01        | HA08  | 1                           |            |
| 1184             | ETHYLENE DICHLORIDE   | 3        | FT1                 | II            | 3+6.1     | 802                | LQ0 E2                          | T                  | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 1185             | ETHYLENEIMINE, STABILIZED   | 6.1      | TF1                 | I             | 6.1+3     | 802                | LQ0 E5                          |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 1188             | ETHYLENE GLYCOL MONOMETHYL ETHER ACETATE  | 3        | F1                  | III           | 3         |                    | LQ7 E1                          | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 1189             | ETHYLENE GLYCOL MONOMETHYL ETHER ACETATE  | 3        | F1                  | III           | 3         |                    | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1190             | ETHYL FORMATE   | 3        | F1                  | II            | 3         |                    | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1191             | OCTYL ALDEHYDES   | 3        | F1                  | III           | 3         |                    | LQ7 E1                          | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 1192             | ETHYL LACTATE   | 3        | F1                  | III           | 3         |                    | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1193             | ETHYL METHYL KETONE (METHYL ETHYL KETONE)   | 3        | F1                  | II            | 3         |                    | LQ4 E2                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1194             | ETHYL NITRITE SOLUTION  | 3        | FT1                 | I             | 3+6.1     | 802                | LQ0 E0                          |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 1195             | ETHYL PROPIONATE  | 3        | F1                  | II            | 3         |                    | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1196             | ETHYL TRICHLOROSILANE   | 3        | FC                  | II            | 3+8       |                    | LQ4 E2                          |                    | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 1197             | EXTRACTS, FLAVOURING, LIQUID  | 3        | F1                  | I             | 3         |                    | LQ3 E3                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1197             | EXTRACTS, FLAVOURING, LIQUID (vapour pressure at 50 °C more than 110 kPa)   | 3        | F1                  | II            | 3         | 601 640C           | LQ6 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1197             | EXTRACTS, FLAVOURING, LIQUID (vapour pressure at 50 °C not more than 110 kPa)   | 3        | F1                  | II            | 3         | 601 640D           | LQ6 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1197             | EXTRACTS, FLAVOURING, LIQUID  | 3        | F1                  | III           | 3         | 601 640E           | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1197             | EXTRACTS, FLAVOURING, LIQUID (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (boiling point not more than 35 °C)  | 3        | F1                  | III           | 3         | 601 640F           | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1197             | EXTRACTS, FLAVOURING, LIQUID (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C more than 110 kPa, boiling point of more than 35 °C) | 3        | F1                  | III           | 3         | 601 640G           | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |  |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (11)  | 7.1.6 (12) |                             |         |
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 1197             | EXTRACTS, FLAVOURING, LIQUID (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C not more than 110 kPa)  | 3        | F1                  | III           | 3         | 601<br>640H        | LQ7                             | E1           |                    | PP, EX, A          | VE01        |   | 0          |                             |         |
| 1198             | FORMALDEHYDE SOLUTION, FLAMMABLE   | 3        | FC                  | III           | 3+8       |                    | LQ7                             | E1           | T                  | PP, EP, EX, A      | VE01        |   | 0          |                             |         |
| 1199             | FURALDEHYDES   | 6.1      | TF1                 | II            | 6.1+3     | 802                | LQ0                             | E4           | T                  | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 1201             | FUSEL OIL  | 3        | F1                  | II            | 3         |                    | LQ4                             | E2           |                    | PP, EX, A          | VE01        |   | 1          |                             |         |
| 1201             | FUSEL OIL  | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           |                    | PP, EX, A          | VE01        |   | 0          |                             |         |
| 1202             | GAS OIL or DIESEL FUEL or HEATING OIL, LIGHT (flash-point not more than 60 °C)   | 3        | F1                  | III           | 3         | 640K               | LQ7                             | E1           | T                  | PP, EX, A          | VE01        |   | 0          |                             |         |
| 1202             | DIESEL FUEL complying with standard EN 590:2004 or GAS OIL or HEATING OIL, LIGHT with a flash-point as specified in EN 590:2004  | 3        | F1                  | III           | 3         | 640L               | LQ7                             | E1           | T                  | PP, EX, A          | VE01        |   | 0          |                             |         |
| 1202             | GAS OIL or DIESEL FUEL or HEATING OIL, LIGHT (flash-point more than 60 °C and not more than 100 °C)  | 3        | F1                  | III           | 3         | 640M               | LQ7                             | E1           | T                  | PP, EX, A          | VE01        |   | 0          |                             |         |
| 1203             | MOTOR SPIRIT or GASOLINE or PETROL   | 3        | F1                  | II            | 3         | 243<br>534         | LQ4                             | E2           | T                  | PP, EX, A          | VE01        |   | 1          |                             |         |
| 1204             | NITROGLYCERIN SOLUTION IN ALCOHOL with not more than 1% nitroglycerin  | 3        | D                   | II            | 3         | 601                | LQ0                             | E0           |                    | PP, EX, A          | VE01        |   | 1          |                             |         |
| 1206             | HEPTANES   | 3        | F1                  | II            | 3         |                    | LQ4                             | E2           | T                  | PP, EX, A          | VE01        |   | 1          |                             |         |
| 1207             | HEXALDEHYDE  | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           |                    | PP, EX, A          | VE01        |   | 0          |                             |         |
| 1208             | HEXANES  | 3        | F1                  | II            | 3         |                    | LQ4                             | E2           | T                  | PP, EX, A          | VE01        |   | 1          |                             |         |
| 1210             | PRINTING INK, flammable or PRINTING INK RELATED MATERIAL (including printing ink thinning or reducing compound), flammable   | 3        | F1                  | I             | 3         | 163                | LQ3                             | E3           |                    | PP, EX, A          | VE01        |   | 1          |                             |         |
| 1210             | PRINTING INK, flammable or PRINTING INK RELATED MATERIAL (including printing ink thinning or reducing compound), flammable   | 3        | F1                  | II            | 3         | 163<br>640C        | LQ6                             | E2           |                    | PP, EX, A          | VE01        |   | 1          |                             |         |
| 1210             | PRINTING INK, flammable or PRINTING INK RELATED MATERIAL (including printing ink thinning or reducing compound), flammable (vapour pressure at 50 °C more than 110 kPa)  | 3        | F1                  | II            | 3         | 163<br>640D        | LQ6                             | E2           |                    | PP, EX, A          | VE01        |   | 1          |                             |         |
| 1210             | PRINTING INK, flammable or PRINTING INK RELATED MATERIAL (including printing ink thinning or reducing compound), flammable   | 3        | F1                  | III           | 3         | 163<br>640E        | LQ7                             | E1           |                    | PP, EX, A          | VE01        |   | 0          |                             |         |
| 1210             | PRINTING INK, flammable or PRINTING INK RELATED MATERIAL (including printing ink thinning or reducing compound), flammable (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (boiling point not more than 35 °C) | 3        | F1                  | III           | 3         | 163<br>640F        | LQ7                             | E1           |                    | PP, EX, A          | VE01        |   | 0          |                             |         |

| UN No. or ID No. | Name and description  | Class    | Classification Code | Packing group | Labels    | Special provisions | Limited and excepted quantities |              | Carriage permitted | Equipment required | Ventilation   | Provisions concerning loading, unloading and carriage | Number of blue cones/lights | Remarks    |
|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|---------------|---|-----------------------------|------------|
|                  |   |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |               |   |                             |            |
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)    | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 1210             | PRINTING INK, flammable or PRINTING INK RELATED MATERIAL (including printing ink thinning or reducing compound), flammable (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C more than 110 kPa, boiling point of more than 35 °C) | 3        | F1                  | III           | 3         | 163<br>640G        | LQ7                             | E1           |                    | PP, EX, A          | VE01          |   | 0                           | 3.2.1      |
| 1210             | PRINTING INK, flammable or PRINTING INK RELATED MATERIAL (including printing ink thinning or reducing compound), flammable (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C not more than 110 kPa)                               | 3        | F1                  | III           | 3         | 163<br>640H        | LQ7                             | E1           |                    | PP, EX, A          | VE01          |   | 0                           |            |
| 1212             | ISOBUTANOL (ISOBUTYLALCOHOL)  | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           | T                  | PP, EX, A          | VE01          |   | 0                           |            |
| 1213             | ISOBUTYL ACETATE  | 3        | F1                  | II            | 3         |                    | LQ4                             | E2           | T                  | PP, EX, A          | VE01          |   | 1                           |            |
| 1214             | ISOBUTYLAMINE   | 3        | FC                  | II            | 3+8       |                    | LQ4                             | E2           | T                  | PP, EP, EX, A      | VE01          |   | 1                           |            |
| 1216             | ISOCTENES   | 3        | F1                  | II            | 3         |                    | LQ4                             | E2           | T                  | PP, EX, A          | VE01          |   | 1                           |            |
| 1218             | ISOPRENE, STABILIZED  | 3        | F1                  | I             | 3         |                    | LQ3                             | E3           | T                  | PP, EX, A          | VE01          |   | 1                           |            |
| 1219             | ISOPROPANOL (ISOPROPYLALCOHOL)  | 3        | F1                  | II            | 3         | 601                | LQ4                             | E2           | T                  | PP, EX, A          | VE01          |   | 1                           |            |
| 1220             | ISOPROPYL ACETATE   | 3        | F1                  | II            | 3         |                    | LQ4                             | E2           | T                  | PP, EX, A          | VE01          |   | 1                           |            |
| 1221             | ISOPROPYLAMINE  | 3        | FC                  | I             | 3+8       |                    | LQ3                             | E0           | T                  | PP, EP, EX, A      | VE01          |   | 1                           |            |
| 1222             | ISOPROPYL NITRATE   | 3        | F1                  | II            | 3         |                    | LQ4                             | E2           | T                  | PP, EX, A          | VE01          |   | 1                           |            |
| 1223             | KEROSENE  | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           | T                  | PP, EX, A          | VE01          |   | 0                           |            |
| 1224             | KETONES, LIQUID, N.O.S. (vapour pressure at 50 °C more than 110 kPa)  | 3        | F1                  | II            | 3         | 274<br>640C        | LQ4                             | E2           | T                  | PP, EX, A          | VE01          |   | 1                           |            |
| 1224             | KETONES, LIQUID, N.O.S. (vapour pressure at 50 °C not more than 110 kPa)  | 3        | F1                  | II            | 3         | 274<br>640D        | LQ4                             | E2           | T                  | PP, EX, A          | VE01          |   | 1                           |            |
| 1224             | KETONES, LIQUID, N.O.S.   | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           | T                  | PP, EX, A          | VE01          |   | 0                           |            |
| 1228             | MERCAPTANS, LIQUID, FLAMMABLE, TOXIC, N.O.S. or MERCAPTAN MIXTURE, LIQUID, FLAMMABLE, TOXIC, N.O.S.   | 3        | FT1                 | II            | 3+6.1     | 274<br>802         | LQ0                             | E2           |                    | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 2                           |            |
| 1228             | MERCAPTANS, LIQUID, FLAMMABLE, TOXIC, N.O.S. or MERCAPTAN MIXTURE, LIQUID, FLAMMABLE, TOXIC, N.O.S.   | 3        | FT1                 | III           | 3+6.1     | 274<br>802         | LQ7                             | E1           |                    | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 0                           |            |
| 1229             | METHYL OXIDE  | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           | T                  | PP, EX, A          | VE01          |   | 0                           |            |
| 1230             | METHANOL  | 3        | FT1                 | II            | 3+6.1     | 279<br>802         | LQ0                             | E2           | T                  | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 2                           |            |
| 1231             | METHYL ACETATE  | 3        | F1                  | II            | 3         |                    | LQ4                             | E2           | T                  | PP, EX, A          | VE01          |   | 1                           |            |
| 1233             | METHYLAMYL ACETATE  | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           |                    | PP, EX, A          | VE01          |   | 0                           |            |
| 1234             | METHYLAL  | 3        | F1                  | II            | 3         |                    | LQ4                             | E2           |                    | PP, EX, A          | VE01          |   | 1                           |            |
| 1235             | METHYLAMINE, AQUEOUS SOLUTION   | 3        | FC                  | II            | 3+8       |                    | LQ4                             | E2           | T                  | PP, EP, EX, A      | VE01          |   | 1                           |            |
| 1237             | METHYL BUTYRATE   | 3        | F1                  | II            | 3         |                    | LQ4                             | E2           |                    | PP, EX, A          | VE01          |   | 1                           |            |
| 1238             | METHYL CHLOROFORMATE  | 6.1      | TFC                 | I             | 6.1+3+8   | 802                | LQ0                             | E5           |                    | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 2                           |            |
| 1239             | METHYL CHLOROMETHYL ETHER   | 6.1      | TF1                 | I             | 6.1+3     | 802                | LQ0                             | E5           |                    | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 2                           |            |

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|------------------|--|-------|---------------------|---------------|---------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|---------|
|                  | 3.1.2  | 2.2   | 2.2                 | 2.1.1.3       | 5.2.2   | 3.3                | 3.4.6                           | 3.2.1              | 8.1.5              | 7.1.6       | 7.1.6   | 7.1.5                       | 3.2.1   |
| (1)              | (2)  | (3a)  | (3b)                | (4)           | (5)     | (6)                | (7a)                            | (8)                | (9)                | (10)        | (11)  | (12)                        | (13)    |
| 1242             | METHYLDICHLOROSILANE   | 4.3   | WFC                 | I             | 4.3+3+8 |                    | LQ0                             |                    | PP, EP, EX, A      | VE01        | HA08  | 1                           |         |
| 1243             | METHYL FORMATE   | 3     | F1                  | I             | 3       |                    | LQ3                             | T                  | PP, EX, A          | VE01        |   | 1                           |         |
| 1244             | METHYLHYDRAZINE  | 6.1   | TFC                 | I             | 6.1+3+8 | 802                | LQ0                             | T                  | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |         |
| 1245             | METHYL ISOBUTYL KETONE   | 3     | F1                  | II            | 3       |                    | LQ4                             | T                  | PP, EX, A          | VE01        |   | 1                           |         |
| 1246             | METHYL ISOPROPENYL KETONE, STABILIZED  | 3     | F1                  | II            | 3       |                    | LQ4                             |                    | PP, EX, A          | VE01        |   | 1                           |         |
| 1247             | METHYL METHACRYLATE MONOMER, STABILIZED  | 3     | F1                  | II            | 3       |                    | LQ4                             | T                  | PP, EX, A          | VE01        |   | 1                           |         |
| 1248             | METHYL PROPIONATE  | 3     | F1                  | II            | 3       |                    | LQ4                             |                    | PP, EX, A          | VE01        |   | 1                           |         |
| 1249             | METHYL PROPYL KETONE   | 3     | F1                  | II            | 3       |                    | LQ4                             |                    | PP, EX, A          | VE01        |   | 1                           |         |
| 1250             | METHYLTRICHLOROSILANE  | 3     | FC                  | II            | 3+8     |                    | LQ4                             |                    | PP, EP, EX, A      | VE01        |   | 1                           |         |
| 1251             | METHYL VINYL KETONE, STABILIZED  | 6.1   | TFC                 | I             | 6.1+3+8 | 802                | LQ0                             |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |         |
| 1259             | NICKEL CARBONYL  | 6.1   | TF1                 | I             | 6.1+3   | 802                | LQ0                             |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |         |
| 1261             | NITROMETHANE   | 3     | F1                  | II            | 3       |                    | LQ4                             |                    | PP, EX, A          | VE01        |   | 1                           |         |
| 1262             | OCTANES  | 3     | F1                  | II            | 3       |                    | LQ4                             | T                  | PP, EX, A          | VE01        |   | 1                           |         |
| 1263             | PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound) (vapour pressure at 50 °C more than 110 kPa)     | 3     | F1                  | I             | 3       | 163<br>650         | LQ3                             |                    | PP, EX, A          | VE01        |   | 1                           |         |
| 1263             | PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound) (vapour pressure at 50 °C not more than 110 kPa) | 3     | F1                  | II            | 3       | 163<br>640C<br>650 | LQ6                             |                    | PP, EX, A          | VE01        |   | 1                           |         |
| 1263             | PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound) (vapour pressure at 50 °C not more than 110 kPa) | 3     | F1                  | III           | 3       | 163<br>640E<br>650 | LQ7                             |                    | PP, EX, A          | VE01        |   | 0                           |         |

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|------------------|---|-------|---------------------|---------------|--------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |   |       |                     |               |        |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (10)  | 7.1.6 (11) |                             |         |
| 1263             | 3.1.2 (2)<br>PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound) (having a flash-point below 23 °C and viscous according to 2.2.3.1 (boiling point not more than 35° C).                                | 3     | F1                  | III           | 3      | 163<br>640G<br>650 | LQ7                             | E1           |                    | PP, EX, A          | VE01        |   | 0          | 3.2.1 (13)                  |         |
| 1263             | PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound) (having a flash-point below 23 °C and viscous according to 2.2.3.1) (vapour pressure at 50 °C more than 110 kPa, boiling point of more than 35° C). | 3     | F1                  | III           | 3      | 163<br>640G<br>650 | LQ7                             | E1           |                    | PP, EX, A          | VE01        |   | 0          |                             |         |
| 1263             | PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound) (having a flash-point below 23 °C and viscous according to 2.2.3.1) (vapour pressure at 50 °C not more than 110 kPa).                               | 3     | F1                  | III           | 3      | 163<br>640H<br>650 | LQ7                             | E1           |                    | PP, EX, A          | VE01        |   | 0          |                             |         |
| 1264             | PARALDEHYDE   | 3     | F1                  | III           | 3      |                    | LQ7                             | E1           | T                  | PP, EX, A          | VE01        |   | 0          |                             |         |
| 1265             | PENTANES, liquid  | 3     | F1                  | I             | 3      |                    | LQ3                             | E3           | T                  | PP, EX, A          | VE01        |   | 1          |                             |         |
| 1265             | PENTANES, liquid  | 3     | F1                  | II            | 3      |                    | LQ4                             | E2           | T                  | PP, EX, A          | VE01        |   | 1          |                             |         |
| 1266             | PERFUMERY PRODUCTS with flammable solvents  | 3     | F1                  | I             | 3      |                    | LQ3                             | E3           |                    | PP, EX, A          | VE01        |   | 1          |                             |         |
| 1266             | PERFUMERY PRODUCTS with flammable solvents (vapour pressure at 50 °C more than 110 kPa)   | 3     | F1                  | II            | 3      | 640C               | LQ6                             | E2           |                    | PP, EX, A          | VE01        |   | 1          |                             |         |
| 1266             | PERFUMERY PRODUCTS with flammable solvents (vapour pressure at 50 °C not more than 110 kPa)   | 3     | F1                  | II            | 3      | 640D               | LQ6                             | E2           |                    | PP, EX, A          | VE01        |   | 1          |                             |         |
| 1266             | PERFUMERY PRODUCTS with flammable solvents  | 3     | F1                  | III           | 3      | 640E               | LQ7                             | E1           |                    | PP, EX, A          | VE01        |   | 0          |                             |         |
| 1266             | PERFUMERY PRODUCTS with flammable solvents (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (boiling point not more than 35° C)  | 3     | F1                  | III           | 3      | 640F               | LQ7                             | E1           |                    | PP, EX, A          | VE01        |   | 0          |                             |         |
| 1266             | PERFUMERY PRODUCTS with flammable solvents (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C more than 110 kPa, boiling point of more than 35° C)   | 3     | F1                  | III           | 3      | 640G               | LQ7                             | E1           |                    | PP, EX, A          | VE01        |   | 0          |                             |         |



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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
|                  |  |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             |   |                             |            |
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 1266             | PERUMERY PRODUCTS with flammable solvents (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C not more than 110 kPa) | 3        | F1                  | III           | 3         | 640H               | LQ7                             | E1           |                    | PP, EX, A          | VE01        |   | 0                           | 3.2.1      |
| 1267             | PETROLEUM CRUDE OIL  | 3        | F1                  | I             | 3         | 649                | LQ3                             | E3           | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1267             | PETROLEUM CRUDE OIL (vapour pressure at 50 °C more than 110 kPa)   | 3        | F1                  | II            | 3         | 640C               | LQ4                             | E2           | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1267             | PETROLEUM CRUDE OIL (vapour pressure at 50 °C not more than 110 kPa)   | 3        | F1                  | II            | 3         | 640D               | LQ4                             | E2           | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1267             | PETROLEUM CRUDE OIL  | 3        | F1                  | III           | 3         | 649                | LQ7                             | E1           | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 1268             | PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S.  | 3        | F1                  | I             | 3         | 649                | LQ3                             | E3           | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1268             | PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S. (vapour pressure at 50 °C more than 110 kPa)   | 3        | F1                  | II            | 3         | 640C               | LQ4                             | E2           | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1268             | PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S. (vapour pressure at 50 °C not more than 110 kPa)   | 3        | F1                  | II            | 3         | 640D               | LQ4                             | E2           | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1268             | PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S.  | 3        | F1                  | III           | 3         | 649                | LQ7                             | E1           | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 1272             | PINE OIL   | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1274             | n-PROPANOL (PROPYL ALCOHOL, NORMAL)  | 3        | F1                  | II            | 3         |                    | LQ4                             | E2           | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1274             | n-PROPANOL (PROPYL ALCOHOL, NORMAL)  | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 1275             | PROPIONALDEHYDE  | 3        | F1                  | II            | 3         |                    | LQ4                             | E2           | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1276             | n-PROPYL ACETATE   | 3        | F1                  | II            | 3         |                    | LQ4                             | E2           | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1277             | PROPYLAMINE  | 3        | FC                  | II            | 3+8       |                    | LQ4                             | E2           | T                  | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 1278             | 1-CHLOROPROPANE  | 3        | F1                  | II            | 3         |                    | LQ4                             | E2           | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1279             | 1,2-DICHLOROPROPANE  | 3        | F1                  | II            | 3         |                    | LQ4                             | E2           | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1280             | PROPYLENE OXIDE  | 3        | F1                  | I             | 3         |                    | LQ3                             | E3           | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1281             | PROPYL FORMATES  | 3        | F1                  | II            | 3         |                    | LQ4                             | E2           | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1282             | PYRIDINE   | 3        | F1                  | II            | 3         |                    | LQ4                             | E2           | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1286             | ROSIN OIL  | 3        | F1                  | I             | 3         |                    | LQ3                             | E3           |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1286             | ROSIN OIL (vapour pressure at 50 °C more than 110 kPa)   | 3        | F1                  | II            | 3         | 640C               | LQ6                             | E2           |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1286             | ROSIN OIL (vapour pressure at 50 °C not more than 110 kPa)   | 3        | F1                  | II            | 3         | 640D               | LQ6                             | E2           |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1286             | ROSIN OIL  | 3        | F1                  | III           | 3         | 640E               | LQ7                             | E1           |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1286             | ROSIN OIL (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (boiling point not more than 35° C)  | 3        | F1                  | III           | 3         | 640F               | LQ7                             | E1           |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1286             | ROSIN OIL (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C more than 110 kPa, boiling point of more than 35° C)   | 3        | F1                  | III           | 3         | 640G               | LQ7                             | E1           |                    | PP, EX, A          | VE01        |   | 0                           |            |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a) 3.5.1.2 (7b)         | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 1286             | ROSIN OIL (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C not more than 110 kPa)                                     | 3        | F1                  | III           | 3         | 640H               | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1287             | RUBBER SOLUTION  | 3        | F1                  | I             | 3         |                    | LQ3 E3                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1287             | RUBBER SOLUTION (vapour pressure at 50 °C more than 110 kPa)   | 3        | F1                  | II            | 3         | 640C               | LQ6 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1287             | RUBBER SOLUTION (vapour pressure at 50 °C not more than 110 kPa)   | 3        | F1                  | II            | 3         | 640D               | LQ6 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1287             | RUBBER SOLUTION  | 3        | F1                  | III           | 3         | 640E               | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1287             | RUBBER SOLUTION (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (boiling point not more than 35° C)  | 3        | F1                  | III           | 3         | 640F               | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1287             | RUBBER SOLUTION (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C more than 110 kPa, boiling point of more than 35° C) | 3        | F1                  | III           | 3         | 640G               | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1287             | RUBBER SOLUTION (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C not more than 110 kPa)                               | 3        | F1                  | III           | 3         | 640H               | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1288             | SHALE OIL  | 3        | F1                  | II            | 3         |                    | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1288             | SHALE OIL  | 3        | F1                  | III           | 3         |                    | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1289             | SODIUM METHYLATE SOLUTION in alcohol   | 3        | FC                  | II            | 3+8       |                    | LQ4 E2                          |                    | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 1289             | SODIUM METHYLATE SOLUTION in alcohol   | 3        | FC                  | III           | 3+8       |                    | LQ7 E1                          | T                  | PP, EP, EX, A      | VE01        |   | 0                           |            |
| 1292             | TETRAETHYL SILICATE  | 3        | F1                  | III           | 3         |                    | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1293             | TINCTURES, MEDICINAL   | 3        | F1                  | II            | 3         | 601                | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1293             | TINCTURES, MEDICINAL   | 3        | F1                  | III           | 3         | 601                | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1294             | TOLUENE  | 3        | F1                  | II            | 3         |                    | LQ4 E2                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1295             | TRICHLOROSILANE  | 4.3      | WFC                 | I             | 4.3+3+8   |                    | LQ0 E0                          |                    | PP, EP, EX, A      | VE01        | HA08  | 1                           |            |
| 1296             | TRIETHYLAMINE  | 3        | FC                  | II            | 3+8       |                    | LQ4 E2                          | T                  | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 1297             | TRIMETHYLAMINE, AQUEOUS SOLUTION, not more than 50% trimethylamine, by mass  | 3        | FC                  | I             | 3+8       |                    | LQ3 E0                          |                    | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 1297             | TRIMETHYLAMINE, AQUEOUS SOLUTION, not more than 50% trimethylamine, by mass  | 3        | FC                  | II            | 3+8       |                    | LQ4 E2                          |                    | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 1297             | TRIMETHYLAMINE, AQUEOUS SOLUTION, not more than 50% trimethylamine, by mass  | 3        | FC                  | III           | 3+8       |                    | LQ7 E1                          |                    | PP, EP, EX, A      | VE01        |   | 0                           |            |
| 1298             | TRIMETHYLCHLOROSILANE  | 3        | FC                  | II            | 3+8       |                    | LQ4 E2                          |                    | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 1299             | TURPENTINE   | 3        | F1                  | III           | 3         |                    | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1300             | TURPENTINE SUBSTITUTE  | 3        | F1                  | II            | 3         |                    | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1300             | TURPENTINE SUBSTITUTE  | 3        | F1                  | III           | 3         |                    | LQ7 E1                          | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 1301             | VINYL ACETATE, STABILIZED  | 3        | F1                  | II            | 3         |                    | LQ4 E2                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1302             | VINYL ETHER, STABILIZED  | 3        | F1                  | I             | 3         |                    | LQ3 E3                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1303             | VINYLDENE CHLORIDE, STABILIZED   | 3        | F1                  | I             | 3         |                    | LQ3 E3                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1304             | VINYL ISOBUTYL ETHER, STABILIZED   | 3        | F1                  | II            | 3         |                    | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |

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|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a) 3.5.1.2 (7b)         | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 1305             | VINYLTRICHLOROSILANE, STABILIZED  | 3        | FC                  | II            | 3+8       | 640C               | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1306             | WOOD PRESERVATIVES, LIQUID (vapour pressure at 50 °C more than 110 kPa)   | 3        | F1                  | II            | 3         | 640D               | LQ6 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1306             | WOOD PRESERVATIVES, LIQUID (vapour pressure at 50 °C not more than 110 kPa)   | 3        | F1                  | II            | 3         | 640D               | LQ6 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1306             | WOOD PRESERVATIVES, LIQUID  | 3        | F1                  | III           | 3         | 640E               | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1306             | WOOD PRESERVATIVES, LIQUID (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (boiling point not more than 35° C)  | 3        | F1                  | III           | 3         | 640F               | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1306             | WOOD PRESERVATIVES, LIQUID (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C not more than 110 kPa, boiling point of more than 35° C) | 3        | F1                  | III           | 3         | 640G               | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1306             | WOOD PRESERVATIVES, LIQUID (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C not more than 110 kPa)                                   | 3        | F1                  | III           | 3         | 640H               | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1307             | XYLENES   | 3        | F1                  | II            | 3         |                    | LQ4 E2                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1307             | XYLENES   | 3        | F1                  | III           | 3         |                    | LQ7 E1                          | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 1308             | ZIRCONIUM SUSPENDED IN A FLAMMABLE LIQUID   | 3        | F1                  | I             | 3         |                    | LQ3 E3                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1308             | ZIRCONIUM SUSPENDED IN A FLAMMABLE LIQUID (vapour pressure at 50 °C more than 110 kPa)  | 3        | F1                  | II            | 3         | 640C               | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1308             | ZIRCONIUM SUSPENDED IN A FLAMMABLE LIQUID (vapour pressure at 50 °C not more than 110 kPa)  | 3        | F1                  | II            | 3         | 640D               | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1308             | ZIRCONIUM SUSPENDED IN A FLAMMABLE LIQUID (vapour pressure at 50 °C not more than 110 kPa)  | 3        | F1                  | III           | 3         |                    | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1309             | ALUMINIUM POWDER, COATED  | 4.1      | F3                  | II            | 4.1       |                    | LQ8 E2                          |                    | PP                 |             |   | 1                           |            |
| 1309             | ALUMINIUM POWDER, COATED  | 4.1      | F3                  | III           | 4.1       |                    | LQ9 E1                          |                    | PP                 |             |   | 0                           |            |
| 1310             | AMMONIUM PICRATE, WETTED with not less than 10% water, by mass  | 4.1      | D                   | I             | 4.1       |                    | LQ0 E0                          |                    | PP                 |             |   | 1                           |            |
| 1312             | BORNEOL   | 4.1      | F1                  | III           | 4.1       |                    | LQ9 E1                          |                    | PP                 |             |   | 0                           |            |
| 1313             | CALCIUM RESINATE  | 4.1      | F3                  | III           | 4.1       |                    | LQ9 E1                          |                    | PP                 |             |   | 0                           |            |
| 1314             | CALCIUM RESINATE, FUSED   | 4.1      | F3                  | III           | 4.1       |                    | LQ9 E1                          |                    | PP                 |             |   | 0                           |            |
| 1318             | COBALT RESINATE, PRECIPITATED   | 4.1      | F3                  | III           | 4.1       |                    | LQ9 E1                          |                    | PP                 |             |   | 0                           |            |
| 1320             | DINITROPHENOL, WETTED with not less than 15% water, by mass   | 4.1      | DT                  | I             | 4.1+6.1   | 802                | LQ0 E0                          |                    | PP                 |             |   | 2                           |            |
| 1321             | DINITROPHENOLATES, WETTED with not less than 15% water, by mass   | 4.1      | DT                  | I             | 4.1+6.1   | 802                | LQ0 E0                          |                    | PP                 |             |   | 2                           |            |
| 1322             | DINITRORESORCINOL, WETTED with not less than 15% water, by mass   | 4.1      | D                   | I             | 4.1       |                    | LQ0 E0                          |                    | PP                 |             |   | 1                           |            |
| 1323             | FERROCERIUM   | 4.1      | F3                  | II            | 4.1       | 249                | LQ8 E2                          |                    | PP                 |             |   | 1                           |            |

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|---------------------------|--|------------|---------------------|----------------|--------------|--------------------|---------------------------------|--------------------|--------------------|--------------|---|-----------------------------|-------------|
|                           | <b>3.1.2</b>   | <b>2.2</b> | <b>2.2</b>          | <b>2.1.1.3</b> | <b>5.2.2</b> | <b>3.3</b>         | <b>3.4.6</b>                    | <b>3.2.1</b>       | <b>8.1.5</b>       | <b>7.1.6</b> | <b>7.1.6</b>  | <b>7.1.5</b>                |             |
|                           | <b>(2)</b>   | <b>4.1</b> | <b>(3b)</b>         | <b>(4)</b>     | <b>(5)</b>   | <b>(6)</b>         | <b>(7a)</b>                     | <b>(8)</b>         | <b>(9)</b>         | <b>(10)</b>  | <b>(11)</b>   | <b>(12)</b>                 | <b>(13)</b> |
| 1324                      | FILMS, NITROCELLULOSE BASE, gelatin coated, except scrap                   | 4.1        | F1                  | III            | 4.1          |                    | LQ9                             | E1                 | PP                 |              |   | 0                           |             |
| 1325                      | FLAMMABLE SOLID, ORGANIC, N.O.S.   | 4.1        | F1                  | II             | 4.1          | 274                | LQ8                             | E2                 | PP                 |              |   | 1                           |             |
| 1325                      | FLAMMABLE SOLID, ORGANIC, N.O.S.   | 4.1        | F1                  | III            | 4.1          | 274                | LQ9                             | E1                 | PP                 |              |   | 0                           |             |
| 1326                      | HAFNIUM POWDER, WETTED with not less than 25% water                        | 4.1        | F3                  | II             | 4.1          | 586                | LQ8                             | E2                 | PP                 |              |   | 1                           |             |
| 1327                      | Hay, Straw or Bhusa  | 4.1        | F1                  |                |              |                    |                                 |                    |                    |              |   |                             |             |
| <b>NOT SUBJECT TO ADN</b> |  |            |                     |                |              |                    |                                 |                    |                    |              |   |                             |             |
| 1328                      | HEXAMETHYLENETETRAMINE   | 4.1        | F1                  | III            | 4.1          |                    | LQ9                             | E1                 | PP                 |              |   | 0                           |             |
| 1330                      | MANGANESE RESINATE   | 4.1        | F3                  | III            | 4.1          |                    | LQ9                             | E1                 | PP                 |              |   | 0                           |             |
| 1331                      | MATCHES, STRIKE ANYWHERE   | 4.1        | F1                  | III            | 4.1          | 293                | LQ9                             | E1                 | PP                 |              |   | 0                           |             |
| 1332                      | METALDEHYDE  | 4.1        | F1                  | III            | 4.1          |                    | LQ9                             | E1                 | PP                 |              |   | 0                           |             |
| 1333                      | CERIUM, slabs, ingots or rods  | 4.1        | F3                  | II             | 4.1          |                    | LQ8                             | E2                 | PP                 |              |   | 1                           |             |
| 1334                      | NAPHTHALENE, CRUDE or NAPHTHALENE, REFINED                                 | 4.1        | F1                  | III            | 4.1          | 501                | LQ9                             | E1                 | PP                 |              | CO01  | 0                           |             |
| 1336                      | NITROGUANIDINE (PICRITE), WETTED with not less than 20% water, by mass     | 4.1        | D                   | I              | 4.1          |                    | LQ0                             | E0                 | PP                 |              |   | 1                           |             |
| 1337                      | NITROSTARCH, WETTED with not less than 20% water, by mass                  | 4.1        | D                   | I              | 4.1          |                    | LQ0                             | E0                 | PP                 |              |   | 1                           |             |
| 1338                      | PHOSPHORUS, AMORPHOUS  | 4.1        | F3                  | III            | 4.1          |                    | LQ9                             | E1                 | PP                 |              |   | 0                           |             |
| 1339                      | PHOSPHORUS HEPTASULPHIDE, free from yellow and white phosphorus            | 4.1        | F3                  | II             | 4.1          | 602                | LQ8                             | E2                 | PP                 |              |   | 1                           |             |
| 1340                      | PHOSPHORUS PENTASULPHIDE, free from yellow and white phosphorus            | 4.3        | WF2                 | II             | 4.3+4.1      | 602                | LQ11                            | E2                 | PP, EX, A          | VE01         | HA08  | 1                           |             |
| 1341                      | PHOSPHORUS SESQUISULPHIDE, free from yellow and white phosphorus           | 4.1        | F3                  | II             | 4.1          | 602                | LQ8                             | E2                 | PP                 |              |   | 1                           |             |
| 1343                      | PHOSPHORUS TRISULPHIDE, free from yellow and white phosphorus              | 4.1        | F3                  | II             | 4.1          | 602                | LQ8                             | E2                 | PP                 |              |   | 1                           |             |
| 1344                      | TRINITROPHENOL (PICRIC ACID), WETTED with not less than 30% water, by mass | 4.1        | D                   | I              | 4.1          |                    | LQ0                             | E0                 | PP                 |              |   | 1                           |             |
| 1345                      | RUBBER SCRAP or RUBBER SHODDY, powdered or granulated                      | 4.1        | F1                  | II             | 4.1          |                    | LQ8                             | E2                 | PP                 |              |   | 1                           |             |
| 1346                      | SILICON POWDER, AMORPHOUS  | 4.1        | F3                  | III            | 4.1          | 32                 | LQ9                             | E1                 | PP                 |              |   | 0                           |             |
| 1347                      | SILVER PICRATE, WETTED with not less than 30% water, by mass               | 4.1        | D                   | I              | 4.1          |                    | LQ0                             | E0                 | PP                 |              |   | 1                           |             |
| 1348                      | SODIUM DINITRO-o-CRESOLATE, WETTED with not less than 15% water, by mass   | 4.1        | DT                  | I              | 4.1+6.1      | 802                | LQ0                             | E0                 | PP                 |              |   | 2                           |             |
| 1349                      | SODIUM PICRAMATE, WETTED with not less than 20% water, by mass             | 4.1        | D                   | I              | 4.1          |                    | LQ0                             | E0                 | PP                 |              |   | 1                           |             |
| 1350                      | SULPHUR  | 4.1        | F3                  | III            | 4.1          | 242                | LQ9                             | E1                 | PP                 |              |   | 0                           |             |
| 1352                      | TITANIUM POWDER, WETTED with not less than 25% water                       | 4.1        | F3                  | II             | 4.1          | 586                | LQ8                             | E2                 | PP                 |              |   | 1                           |             |
| 1353                      | FIBRES or FABRICS IMPREGNATED WITH WEAKLY NITRATED NITROCELLULOSE, N.O.S.  | 4.1        | F1                  | III            | 4.1          | 274<br>502         | LQ9                             | E1                 | PP                 |              |   | 0                           |             |

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|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|--|
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a) 3.5.1.2 (7b)         | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13)   |
| 1354             | TRINITROBENZENE, WETTED with not less than 30% water, by mass                                   | 4.1      | D                   | I             | 4.1       |                    | LQ0 E0                          |                    | PP                 |             |   | 1                           |  |
| 1355             | TRINITROBENZOIC ACID, WETTED with not less than 30% water, by mass                              | 4.1      | D                   | I             | 4.1       |                    | LQ0 E0                          |                    | PP                 |             |   | 1                           |  |
| 1356             | TRINITROTOLUENE (TNT), WETTED with not less than 30% water, by mass                             | 4.1      | D                   | I             | 4.1       |                    | LQ0 E0                          |                    | PP                 |             |   | 1                           |  |
| 1357             | UREA NITRATE, WETTED with not less than 20% water, by mass                                      | 4.1      | D                   | I             | 4.1       | 227                | LQ0 E0                          |                    | PP                 |             |   | 1                           |  |
| 1358             | ZIRCONIUM POWDER, WETTED with not less than 25% water   | 4.1      | F3                  | II            | 4.1       | 586                | LQ8 E2                          |                    | PP                 |             |   | 1                           |  |
| 1360             | CALCIUM PHOSPHIDE   | 4.3      | WT2                 | I             | 4.3+6.1   | 802                | LQ0 E0                          |                    | PP, EP, EX, TOX. A | VE01, VE02  | HA08  | 2                           |  |
| 1361             | CARBON, animal or vegetable origin  | 4.2      | S2                  | II            | 4.2       |                    | LQ0 E2                          |                    | PP                 |             |   | 0                           |  |
| 1361             | CARBON, animal or vegetable origin  | 4.2      | S2                  | III           | 4.2       |                    | LQ0 E1                          |                    | PP                 |             |   | 0                           |  |
| 1362             | CARBON, ACTIVATED   | 4.2      | S2                  | III           | 4.2       | 646                | LQ0 E1                          |                    | PP                 |             |   | 0                           |  |
| 1363             | COPRA   | 4.2      | S2                  | III           | 4.2       |                    | LQ0 E1                          | <b>B</b>           | PP                 |             |   | 0                           | IN01 and IN02 apply only when this substance is carried in bulk or without packaging |
| 1364             | COTTON WASTE, OILY  | 4.2      | S2                  | III           | 4.2       |                    | LQ0 E1                          | <b>B</b>           | PP                 |             |   | 0                           |  |
| 1365             | COTTON, WET   | 4.2      | S2                  | III           | 4.2       |                    | LQ0 E1                          | <b>B</b>           | PP                 |             |   | 0                           |  |
| 1369             | p-NITROSODIMETHYLANILINE  | 4.2      | S2                  | II            | 4.2       |                    | LQ0 E2                          |                    | PP                 |             |   | 0                           |  |
| 1372             | Fibres, animal or fibres, vegetable burnt, wet or damp  | 4.2      | S2                  |               |           |                    |                                 |                    |                    |             |   |                             |  |
| 1373             | FIBRES or FABRICS, ANIMAL or VEGETABLE or SYNTHETIC, N.O.S., with oil                           | 4.2      | S2                  | III           | 4.2       | 274                | LQ0 E1                          | <b>B</b>           | PP                 |             |   | 0                           |  |
| 1374             | FISH MEAL (FISH SCRAP), UNSTABILIZED  | 4.2      | S2                  | II            | 4.2       | 300                | LQ0 E2                          |                    | PP                 |             |   | 0                           |  |
| 1376             | IRON OXIDE, SPENT or IRON SPONGE, SPENT obtained from coal gas purification                     | 4.2      | S4                  | III           | 4.2       | 592                | LQ0 E1                          | <b>B</b>           | PP                 |             |   | 0                           |  |
| 1378             | METAL CATALYST, WETTED with a visible excess of liquid  | 4.2      | S4                  | II            | 4.2       | 274                | LQ0 E2                          |                    | PP                 |             |   | 0                           |  |
| 1379             | PAPER, UNSATURATED OIL TREATED, incompletely dried (including carbon paper)                     | 4.2      | S2                  | III           | 4.2       |                    | LQ0 E1                          | <b>B</b>           | PP                 |             |   | 0                           |  |
| 1380             | PENTABORANE   | 4.2      | ST3                 | I             | 4.2+6.1   | 802                | LQ0 E0                          |                    | PP, EP, TOX. A     | VE02        |   | 2                           |  |
| 1381             | PHOSPHORUS, WHITE or YELLOW, UNDER WATER or IN SOLUTION   | 4.2      | ST3                 | I             | 4.2+6.1   | 503 802            | LQ0 E0                          |                    | PP, EP, TOX. A     | VE02        |   | 2                           |  |
| 1381             | PHOSPHORUS, WHITE or YELLOW, DRY  | 4.2      | ST4                 | I             | 4.2+6.1   | 503 802            | LQ0 E0                          |                    | PP, EP             |             |   | 2                           |  |
| 1382             | POTASSIUM SULPHIDE, ANHYDROUS or POTASSIUM SULPHIDE with less than 30% water of crystallization | 4.2      | S4                  | II            | 4.2       | 504                | LQ0 E2                          |                    | PP                 |             |   | 0                           |  |
| 1383             | PYROPHORIC METAL, N.O.S. or PYROPHORIC ALLOY, N.O.S.  | 4.2      | S4                  | I             | 4.2       | 274                | LQ0 E0                          |                    | PP                 |             |   | 0                           |  |

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|------------------|--|-------|---------------------|---------------|----------|--------------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|--|
| (1)              | (2)  | (3a)  | (3b)                | (4)           | (5)      | (6)                      | (7a)                            | (8)                | (9)                | (10)        | (11)  | (12)                        | (13)   |
| 1384             | 3.1.2<br>(2)<br>SODIUM DITHIONITE (SODIUM HYDROSULPHITE)   | 4.2   | S4                  | II            | 4.2      |                          | LQ0                             |                    | PP                 |             |   | 0                           |  |
| 1385             | SODIUM SULPHIDE, ANHYDROUS or SODIUM SULPHIDE with less than 30% water of crystallization              | 4.2   | S4                  | II            | 4.2      | 504                      | LQ0                             |                    | PP                 |             |   | 0                           |  |
| 1386             | SEED CAKE with more than 1.5% oil and not more than 11% moisture                                       | 4.2   | S2                  | III           | 4.2      | 800                      | LQ0                             | <b>B</b>           | PP                 |             | IN01, IN02  | 0                           | IN01 and IN02 apply only when this substance is carried in bulk or without packaging                   |
| 1387             | Wool waste, wet  | 4.2   | S2                  |               |          |                          |                                 |                    |                    |             |   |                             |  |
| 1389             | ALKALI METAL AMALGAM, LIQUID   | 4.3   | W1                  | I             | 4.3      | 182<br>274               | LQ0                             |                    | PP, EX, A          | VE01        | HA08  | 0                           |  |
| 1390             | ALKALI METAL AMIDES  | 4.3   | W2                  | II            | 4.3      | 182<br>274<br>505        | LQ11                            |                    | PP, EX, A          | VE01        | HA08  | 0                           |  |
| 1391             | ALKALI METAL DISPERSION or ALKALINE EARTH METAL DISPERSION having a flash-point above 60 °C            | 4.3   | W1                  | I             | 4.3      | 182<br>183<br>274<br>506 | LQ0                             |                    | PP, EX, A          | VE01        | HA08  | 0                           |  |
| 1391             | ALKALI METAL DISPERSION or ALKALINE EARTH METAL DISPERSION having a flash-point of not more than 60 °C | 4.3   | WF1                 | I             | 4.3<br>3 | 182<br>183<br>274<br>506 | LQ0                             |                    | PP, EX, A          | VE01        | HA08  | 0                           |  |
| 1392             | ALKALINE EARTH METAL AMALGAM, LIQUID   | 4.3   | W1                  | I             | 4.3      | 183<br>274<br>506        | LQ0                             |                    | PP, EX, A          | VE01        | HA08  | 0                           |  |
| 1393             | ALKALINE EARTH METAL ALLOY, N.O.S.   | 4.3   | W2                  | II            | 4.3      | 183<br>274<br>506        | LQ11                            |                    | PP, EX, A          | VE01        | HA08  | 0                           |  |
| 1394             | ALUMINIUM CARBIDE  | 4.3   | W2                  | II            | 4.3      | 802                      | LQ11                            |                    | PP, EX, A          | VE01        | HA08  | 0                           |  |
| 1395             | ALUMINIUM FERROSILICON POWDER  | 4.3   | WT2                 | II            | 4.3+6.1  | 802                      | LQ11                            |                    | PP, EP, EX, TOX, A | VE01, VE02  | HA08  | 2                           |  |
| 1396             | ALUMINIUM POWDER, UNCOATED   | 4.3   | W2                  | II            | 4.3      |                          | LQ12                            |                    | PP, EX, A          | VE01        | HA08  | 0                           |  |
| 1396             | ALUMINIUM POWDER, UNCOATED   | 4.3   | W2                  | III           | 4.3      |                          | LQ12                            |                    | PP, EX, A          | VE01        | HA08  | 0                           |  |
| 1397             | ALUMINIUM PHOSPHIDE  | 4.3   | WT2                 | I             | 4.3+6.1  | 507<br>802               | LQ0                             |                    | PP, EP, EX, TOX, A | VE01, VE02  | HA08  | 2                           |  |
| 1398             | ALUMINIUM SILICON POWDER, UNCOATED   | 4.3   | W2                  | III           | 4.3      | 37                       | LQ12                            | <b>B</b>           | PP, EX, A          | VE01, VE03  | LO03<br>HA07, HA08<br>IN03                            | 0                           | VE03, LO03, HA07, IN01 and IN03 apply only when this substance is carried in bulk or without packaging |
| 1400             | BARIUM   | 4.3   | W2                  | II            | 4.3      |                          | LQ11                            |                    | PP, EX, A          | VE01        | HA08  | 0                           |  |
| 1401             | CALCIUM  | 4.3   | W2                  | II            | 4.3      |                          | LQ11                            |                    | PP, EX, A          | VE01        | HA08  | 0                           |  |
| 1402             | CALCIUM CARBIDE  | 4.3   | W2                  | I             | 4.3      |                          | LQ0                             |                    | PP, EX, A          | VE01        | HA08  | 0                           |  |

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|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|-----------------------|------------------------|---|------------|---|---------|
|                  |   |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                       |                        | 7.1.6 (11)  | 7.1.6 (12) |   |         |
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)             | 7.1.6 (10)             | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)  |         |
| 1402             | CALCIUM CARBIDE   | 4.3      | W2                  | II            | 4.3       |                    | LQ11                            | E2           |                    | PP, EX, A             | VE01                   | HA08  | 0          |   |         |
| 1403             | CALCIUM CYANAMIDE with more than 0.1% calcium carbide   | 4.3      | W2                  | III           | 4.3       | 38                 | LQ12                            | E1           |                    | PP, EX, A             | VE01                   | HA08  | 0          |   |         |
| 1404             | CALCIUM HYDRIDE   | 4.3      | W2                  | I             | 4.3       |                    | LQ0                             | E0           |                    | PP, EX, A             | VE01                   | HA08  | 0          |   |         |
| 1405             | CALCIUM SILICIDE  | 4.3      | W2                  | II            | 4.3       |                    | LQ11                            | E2           |                    | PP, EX, A             | VE01                   | HA08  | 0          |   |         |
| 1405             | CALCIUM SILICIDE  | 4.3      | W2                  | III           | 4.3       |                    | LQ12                            | E1           |                    | PP, EX, A             | VE01                   | HA08  | 0          |   |         |
| 1407             | CAESIUM   | 4.3      | W2                  | I             | 4.3       |                    | LQ0                             | E0           |                    | PP, EX, A             | VE01                   | HA08  | 0          |   |         |
| 1408             | FERROSILICON with 30% or more but less than 90% silicon | 4.3      | WT2                 | III           | 4.3+6.1   | 39<br>802          | LQ12                            | E1           | <b>B</b>           | PP, EP, EX,<br>TOX, A | VE01,<br>VE02,<br>VE03 | LO03<br>HA07<br>HA08<br>IN01,<br>IN02,<br>IN03        | 0          | VE03, LO03, HA07,<br>IN01, IN02 and IN03<br>apply only when this<br>substance is carried in<br>bulk or without<br>packaging |         |
| 1409             | METAL HYDRIDES, WATER-REACTIVE,<br>N.O.S.               | 4.3      | W2                  | I             | 4.3       | 274<br>508         | LQ0                             | E0           |                    | PP, EX, A             | VE01                   | HA08  | 0          |   |         |
| 1409             | METAL HYDRIDES, WATER-REACTIVE,<br>N.O.S.               | 4.3      | W2                  | II            | 4.3       | 274<br>508         | LQ11                            | E2           |                    | PP, EX, A             | VE01                   | HA08  | 0          |   |         |
| 1410             | LITHIUM ALUMINIUM HYDRIDE                               | 4.3      | W2                  | I             | 4.3       |                    | LQ0                             | E0           |                    | PP, EX, A             | VE01                   | HA08  | 0          |   |         |
| 1411             | LITHIUM ALUMINIUM HYDRIDE,<br>ETHERAL                   | 4.3      | WF1                 | I             | 4.3+3     |                    | LQ0                             | E0           |                    | PP, EX, A             | VE01                   | HA08  | 1          |   |         |
| 1413             | LITHIUM BOROHYDRIDE                                     | 4.3      | W2                  | I             | 4.3       |                    | LQ0                             | E0           |                    | PP, EX, A             | VE01                   | HA08  | 0          |   |         |
| 1414             | LITHIUM HYDRIDE   | 4.3      | W2                  | I             | 4.3       |                    | LQ0                             | E0           |                    | PP, EX, A             | VE01                   | HA08  | 0          |   |         |
| 1415             | LITHIUM   | 4.3      | W2                  | I             | 4.3       |                    | LQ0                             | E0           |                    | PP, EX, A             | VE01                   | HA08  | 0          |   |         |
| 1417             | LITHIUM SILICON   | 4.3      | W2                  | II            | 4.3       |                    | LQ11                            | E2           |                    | PP, EX, A             | VE01                   | HA08  | 0          |   |         |
| 1418             | MAGNESIUM POWDER or MAGNESIUM<br>ALLOYS POWDER          | 4.3      | WS                  | I             | 4.3+4.2   |                    | LQ0                             | E0           |                    | PP, EX, A             | VE01                   | HA08  | 0          |   |         |
| 1418             | MAGNESIUM POWDER or MAGNESIUM<br>ALLOYS POWDER          | 4.3      | WS                  | II            | 4.3+4.2   |                    | LQ11                            | E2           |                    | PP, EX, A             | VE01                   | HA08  | 0          |   |         |
| 1418             | MAGNESIUM POWDER or MAGNESIUM<br>ALLOYS POWDER          | 4.3      | WS                  | III           | 4.3+4.2   |                    | LQ12                            | E1           |                    | PP, EX, A             | VE01                   | HA08  | 0          |   |         |
| 1419             | MAGNESIUM ALUMINIUM PHOSPHIDE                           | 4.3      | WT2                 | I             | 4.3+6.1   | 802                | LQ0                             | E0           |                    | PP, EP, EX,<br>TOX, A | VE01,<br>VE02          | HA08  | 2          |   |         |
| 1420             | POTASSIUM METAL ALLOYS, LIQUID                          | 4.3      | W1                  | I             | 4.3       |                    | LQ0                             | E0           |                    | PP, EX, A             | VE01                   | HA08  | 0          |   |         |
| 1421             | ALKALI METAL ALLOY, LIQUID, N.O.S.                      | 4.3      | W1                  | I             | 4.3       | 182<br>274         | LQ0                             | E0           |                    | PP, EX, A             | VE01                   | HA08  | 0          |   |         |
| 1422             | POTASSIUM SODIUM ALLOYS, LIQUID                         | 4.3      | W1                  | I             | 4.3       |                    | LQ0                             | E0           |                    | PP, EX, A             | VE01                   | HA08  | 0          |   |         |
| 1423             | RUBIDIUM  | 4.3      | W2                  | I             | 4.3       |                    | LQ0                             | E0           |                    | PP, EX, A             | VE01                   | HA08  | 0          |   |         |
| 1426             | SODIUM BOROHYDRIDE                                      | 4.3      | W2                  | I             | 4.3       |                    | LQ0                             | E0           |                    | PP, EX, A             | VE01                   | HA08  | 0          |   |         |
| 1427             | SODIUM HYDRIDE  | 4.3      | W2                  | I             | 4.3       |                    | LQ0                             | E0           |                    | PP, EX, A             | VE01                   | HA08  | 0          |   |         |
| 1428             | SODIUM  | 4.3      | W2                  | I             | 4.3       |                    | LQ0                             | E0           |                    | PP, EX, A             | VE01                   | HA08  | 0          |   |         |
| 1431             | SODIUM METHYLATE  | 4.2      | SC4                 | II            | 4.2+8     |                    | LQ0                             | E2           |                    | PP                    |                        |   | 0          |   |         |
| 1432             | SODIUM PHOSPHIDE  | 4.3      | WT2                 | I             | 4.3+6.1   | 802                | LQ0                             | E0           |                    | PP, EP, EX,<br>TOX, A | VE01,<br>VE02          | HA08  | 2          |   |         |
| 1433             | STANNIC PHOSPHIDES                                      | 4.3      | WT2                 | I             | 4.3+6.1   | 802                | LQ0                             | E0           |                    | PP, EP, EX,<br>TOX, A | VE01,<br>VE02          | HA08  | 2          |   |         |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|---------------|---|-----------------------------|--|
| (1)              | 3.1.2 (2)                                      | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)    | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13)   |
| 1435             | ZINC ASHES                                     | 4.3      | W2                  | III           | 4.3       |                    | LQ12<br>E1                      | <b>B</b>           | PP, EX. A          | VE01,<br>VE03 | LO03<br>HA07, IN01,<br>HA08 IN03                      | 0                           | VE03, LO03, HA07, IN01 and IN03 apply only when this substance is carried in bulk or without packaging |
| 1436             | ZINC POWDER or ZINC DUST                       | 4.3      | WS                  | I             | 4.3+4.2   |                    | LQ0                             |                    | PP, EX. A          | VE01          | HA08  | 0                           |  |
| 1436             | ZINC POWDER or ZINC DUST                       | 4.3      | WS                  | II            | 4.3+4.2   |                    | LQ11<br>E2                      |                    | PP, EX. A          | VE01          | HA08  | 0                           |  |
| 1436             | ZINC POWDER or ZINC DUST                       | 4.3      | WS                  | III           | 4.3+4.2   |                    | LQ12<br>E1                      |                    | PP, EX. A          | VE01          | HA08  | 0                           |  |
| 1437             | ZIRCONIUM HYDRIDE                              | 4.1      | F3                  | II            | 4.1       |                    | LQ8<br>E2                       |                    | PP                 |               |   | 1                           |  |
| 1438             | ALUMINIUM NITRATE                              | 5.1      | O2                  | III           | 5.1       |                    | LQ12<br>E1                      | <b>B</b>           | PP                 |               | CO02<br>LO04  | 0                           | CO02 and LO04 apply only when this substance is carried in bulk or without packaging                   |
| 1439             | AMMONIUM DICHROMATE                            | 5.1      | O2                  | II            | 5.1       |                    | LQ11<br>E2                      |                    | PP                 |               |   | 0                           |  |
| 1442             | AMMONIUM PERCHLORATE                           | 5.1      | O2                  | II            | 5.1       | 152                | LQ11<br>E2                      |                    | PP                 |               |   | 0                           |  |
| 1444             | AMMONIUM PERSULPHATE                           | 5.1      | O2                  | III           | 5.1       |                    | LQ12<br>E1                      |                    | PP                 |               |   | 0                           |  |
| 1445             | BARIUM CHLORATE, SOLID                         | 5.1      | OT2                 | II            | 5.1+6.1   | 802                | LQ11<br>E2                      |                    | PP                 |               |   | 2                           |  |
| 1446             | BARIUM NITRATE                                 | 5.1      | OT2                 | II            | 5.1+6.1   | 802                | LQ11<br>E2                      |                    | PP                 |               |   | 2                           |  |
| 1447             | BARIUM PERCHLORATE, SOLID                      | 5.1      | OT2                 | II            | 5.1+6.1   | 802                | LQ11<br>E2                      |                    | PP                 |               |   | 2                           |  |
| 1448             | BARIUM PERMANGANATE                            | 5.1      | OT2                 | II            | 5.1+6.1   | 802                | LQ11<br>E2                      |                    | PP                 |               |   | 2                           |  |
| 1449             | BARIUM PEROXIDE                                | 5.1      | OT2                 | II            | 5.1+6.1   | 802                | LQ11<br>E2                      |                    | PP                 |               |   | 2                           |  |
| 1450             | BROMATES, INORGANIC, N.O.S.                    | 5.1      | O2                  | II            | 5.1       | 274<br>604         | LQ11<br>E2                      |                    | PP                 |               |   | 0                           |  |
| 1451             | CAESIUM NITRATE                                | 5.1      | O2                  | III           | 5.1       |                    | LQ12<br>E1                      | <b>B</b>           | PP                 |               | CO02<br>LO04  | 0                           | CO02 and LO04 apply only when this substance is carried in bulk or without packaging                   |
| 1452             | CALCIUM CHLORATE                               | 5.1      | O2                  | II            | 5.1       |                    | LQ11<br>E2                      |                    | PP                 |               |   | 0                           |  |
| 1453             | CALCIUM CHLORITE                               | 5.1      | O2                  | II            | 5.1       |                    | LQ11<br>E2                      |                    | PP                 |               |   | 0                           |  |
| 1454             | CALCIUM NITRATE                                | 5.1      | O2                  | III           | 5.1       | 208                | LQ12<br>E1                      | <b>B</b>           | PP                 |               | CO02<br>LO04  | 0                           | CO02 and LO04 apply only when this substance is carried in bulk or without packaging                   |
| 1455             | CALCIUM PERCHLORATE                            | 5.1      | O2                  | II            | 5.1       |                    | LQ11<br>E2                      |                    | PP                 |               |   | 0                           |  |
| 1456             | CALCIUM PERMANGANATE                           | 5.1      | O2                  | II            | 5.1       |                    | LQ11<br>E2                      |                    | PP                 |               |   | 0                           |  |
| 1457             | CALCIUM PEROXIDE                               | 5.1      | O2                  | II            | 5.1       |                    | LQ11<br>E2                      |                    | PP                 |               |   | 0                           |  |
| 1458             | CHLORATE AND BORATE MIXTURE                    | 5.1      | O2                  | II            | 5.1       |                    | LQ11<br>E2                      |                    | PP                 |               |   | 0                           |  |
| 1458             | CHLORATE AND BORATE MIXTURE                    | 5.1      | O2                  | III           | 5.1       |                    | LQ12<br>E1                      |                    | PP                 |               |   | 0                           |  |
| 1459             | CHLORATE AND MAGNESIUM CHLORIDE MIXTURE, SOLID | 5.1      | O2                  | II            | 5.1       |                    | LQ11<br>E2                      |                    | PP                 |               |   | 0                           |  |
| 1459             | CHLORATE AND MAGNESIUM CHLORIDE MIXTURE, SOLID | 5.1      | O2                  | III           | 5.1       |                    | LQ12<br>E1                      |                    | PP                 |               |   | 0                           |  |



| UN No. or ID No. | Name and description                                      | Class    | Classification Code | Packing group | Labels    | Special provisions | Limited and excepted quantities | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage | Number of blue cones/lights | Remarks  |
|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|--|
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13)   |
| 1461             | CHLORATES, INORGANIC, N.O.S.                              | 5.1      | O2                  | II            | 5.1       | 274<br>605         | LQ11<br>E2                      |                    | PP                 |             |   | 0                           |  |
| 1462             | CHLORITES, INORGANIC, N.O.S.                              | 5.1      | O2                  | II            | 5.1       | 274<br>509<br>606  | LQ11<br>E2                      |                    | PP                 |             |   | 0                           |  |
| 1463             | CHROMIUM TRIOXIDE, ANHYDROUS                              | 5.1      | OTC                 | II            | 5.1+6.1+8 | 510                | LQ11<br>E2                      |                    | PP                 |             |   | 0                           |  |
| 1465             | DIDYMIUM NITRATE  | 5.1      | O2                  | III           | 5.1       |                    | LQ12<br>E1                      | <b>B</b>           | PP                 |             | CO02<br>LO04  | 0                           | CO02 and LO04 apply only when this substance is carried in bulk or without packaging |
| 1466             | FERRIC NITRATE  | 5.1      | O2                  | III           | 5.1       |                    | LQ12<br>E1                      | <b>B</b>           | PP                 |             | CO02<br>LO04  | 0                           | CO02 and LO04 apply only when this substance is carried in bulk or without packaging |
| 1467             | GUANIDINE NITRATE   | 5.1      | O2                  | III           | 5.1       |                    | LQ12<br>E1                      | <b>B</b>           | PP                 |             | CO02<br>LO04  | 0                           | CO02 and LO04 apply only when this substance is carried in bulk or without packaging |
| 1469             | LEAD NITRATE  | 5.1      | OT2                 | II            | 5.1+6.1   | 802                | LQ11<br>E2                      |                    | PP                 |             |   | 2                           |  |
| 1470             | LEAD PERCHLORATE, SOLID                                   | 5.1      | OT2                 | II            | 5.1+6.1   | 802                | LQ11<br>E2                      |                    | PP                 |             |   | 2                           |  |
| 1471             | LITHIUM HYPOCHLORITE, DRY or LITHIUM HYPOCHLORITE MIXTURE | 5.1      | O2                  | II            | 5.1       |                    | LQ11<br>E2                      |                    | PP                 |             |   | 0                           |  |
| 1472             | LITHIUM PEROXIDE  | 5.1      | O2                  | II            | 5.1       |                    | LQ11<br>E2                      |                    | PP                 |             |   | 0                           |  |
| 1473             | MAGNESIUM BROMATE   | 5.1      | O2                  | II            | 5.1       |                    | LQ11<br>E2                      |                    | PP                 |             |   | 0                           |  |
| 1474             | MAGNESIUM NITRATE   | 5.1      | O2                  | III           | 5.1       | 332                | LQ12<br>E1                      | <b>B</b>           | PP                 |             | CO02<br>LO04  | 0                           | CO02 and LO04 apply only when this substance is carried in bulk or without packaging |
| 1475             | MAGNESIUM PERCHLORATE                                     | 5.1      | O2                  | II            | 5.1       |                    | LQ11<br>E2                      |                    | PP                 |             |   | 0                           |  |
| 1476             | MAGNESIUM PEROXIDE  | 5.1      | O2                  | II            | 5.1       |                    | LQ11<br>E2                      |                    | PP                 |             |   | 0                           |  |
| 1477             | NITRATES, INORGANIC, N.O.S.                               | 5.1      | O2                  | II            | 5.1       | 274<br>511         | LQ11<br>E2                      |                    | PP                 |             |   | 0                           |  |
| 1477             | NITRATES, INORGANIC, N.O.S.                               | 5.1      | O2                  | III           | 5.1       | 274<br>511         | LQ12<br>E1                      | <b>B</b>           | PP                 |             | CO02<br>LO04  | 0                           | CO02 and LO04 apply only when this substance is carried in bulk or without packaging |
| 1479             | OXIDIZING SOLID, N.O.S.                                   | 5.1      | O2                  | I             | 5.1       | 274                | LQ0<br>E0                       |                    | PP                 |             |   | 0                           |  |
| 1479             | OXIDIZING SOLID, N.O.S.                                   | 5.1      | O2                  | II            | 5.1       | 274                | LQ11<br>E2                      |                    | PP                 |             |   | 0                           |  |
| 1479             | OXIDIZING SOLID, N.O.S.                                   | 5.1      | O2                  | III           | 5.1       | 274                | LQ12<br>E1                      |                    | PP                 |             |   | 0                           |  |
| 1481             | PERCHLORATES, INORGANIC, N.O.S.                           | 5.1      | O2                  | II            | 5.1       | 274                | LQ11<br>E2                      |                    | PP                 |             |   | 0                           |  |
| 1481             | PERCHLORATES, INORGANIC, N.O.S.                           | 5.1      | O2                  | III           | 5.1       | 274                | LQ12<br>E1                      |                    | PP                 |             |   | 0                           |  |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|--|
| (1)              | 3.1.2 (2)                                    | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13)   |
| 1482             | PERMANGANATES, INORGANIC, N.O.S.             | 5.1      | O2                  | II            | 5.1       | 274<br>608         | LQ11<br>E2                      |                    | PP                 |             |   | 0                           |  |
| 1482             | PERMANGANATES, INORGANIC, N.O.S.             | 5.1      | O2                  | III           | 5.1       | 274<br>608         | LQ12<br>E1                      |                    | PP                 |             |   | 0                           |  |
| 1483             | PEROXIDES, INORGANIC, N.O.S.                 | 5.1      | O2                  | II            | 5.1       | 274                | LQ11<br>E2                      |                    | PP                 |             |   | 0                           |  |
| 1483             | PEROXIDES, INORGANIC, N.O.S.                 | 5.1      | O2                  | III           | 5.1       | 274                | LQ12<br>E1                      |                    | PP                 |             |   | 0                           |  |
| 1484             | POTASSIUM BROMATE                            | 5.1      | O2                  | II            | 5.1       |                    | LQ11<br>E2                      |                    | PP                 |             |   | 0                           |  |
| 1485             | POTASSIUM CHLORATE                           | 5.1      | O2                  | II            | 5.1       |                    | LQ11<br>E2                      |                    | PP                 |             |   | 0                           |  |
| 1486             | POTASSIUM NITRATE                            | 5.1      | O2                  | III           | 5.1       |                    | LQ12<br>E1                      | <b>B</b>           | PP                 |             | CO02<br>LO04  | 0                           | CO02 and LO04 apply only when this substance is carried in bulk or without packaging |
| 1487             | POTASSIUM NITRATE AND SODIUM NITRITE MIXTURE | 5.1      | O2                  | II            | 5.1       | 607                | LQ11<br>E2                      |                    | PP                 |             |   | 0                           |  |
| 1488             | POTASSIUM NITRITE                            | 5.1      | O2                  | II            | 5.1       |                    | LQ11<br>E2                      |                    | PP                 |             |   | 0                           |  |
| 1489             | POTASSIUM PERCHLORATE                        | 5.1      | O2                  | II            | 5.1       |                    | LQ11<br>E2                      |                    | PP                 |             |   | 0                           |  |
| 1490             | POTASSIUM PERMANGANATE                       | 5.1      | O2                  | II            | 5.1       |                    | LQ11<br>E2                      |                    | PP                 |             |   | 0                           |  |
| 1491             | POTASSIUM PEROXIDE                           | 5.1      | O2                  | I             | 5.1       |                    | LQ0<br>E0                       |                    | PP                 |             |   | 0                           |  |
| 1492             | POTASSIUM PERSULPHATE                        | 5.1      | O2                  | III           | 5.1       |                    | LQ12<br>E1                      |                    | PP                 |             |   | 0                           |  |
| 1493             | SILVER NITRATE                               | 5.1      | O2                  | II            | 5.1       |                    | LQ11<br>E2                      |                    | PP                 |             |   | 0                           |  |
| 1494             | SODIUM BROMATE                               | 5.1      | O2                  | II            | 5.1       |                    | LQ11<br>E2                      |                    | PP                 |             |   | 0                           |  |
| 1495             | SODIUM CHLORATE                              | 5.1      | O2                  | II            | 5.1       |                    | LQ11<br>E2                      |                    | PP                 |             |   | 0                           |  |
| 1496             | SODIUM CHLORITE                              | 5.1      | O2                  | II            | 5.1       |                    | LQ11<br>E2                      |                    | PP                 |             |   | 0                           |  |
| 1498             | SODIUM NITRATE                               | 5.1      | O2                  | III           | 5.1       |                    | LQ12<br>E1                      | <b>B</b>           | PP                 |             | CO02<br>LO04  | 0                           | CO02 and LO04 apply only when this substance is carried in bulk or without packaging |
| 1499             | SODIUM NITRATE AND POTASSIUM NITRATE MIXTURE | 5.1      | O2                  | III           | 5.1       |                    | LQ12<br>E1                      | <b>B</b>           | PP                 |             | CO02<br>LO04  | 0                           | CO02 and LO04 apply only when this substance is carried in bulk or without packaging |
| 1500             | SODIUM NITRITE                               | 5.1      | OT2                 | III           | 5.1+6.1   | 802                | LQ12<br>E1                      |                    | PP                 |             |   | 0                           |  |
| 1502             | SODIUM PERCHLORATE                           | 5.1      | O2                  | II            | 5.1       |                    | LQ11<br>E2                      |                    | PP                 |             |   | 0                           |  |
| 1503             | SODIUM PERMANGANATE                          | 5.1      | O2                  | II            | 5.1       |                    | LQ11<br>E2                      |                    | PP                 |             |   | 0                           |  |
| 1504             | SODIUM PEROXIDE                              | 5.1      | O2                  | I             | 5.1       |                    | LQ0<br>E0                       |                    | PP                 |             |   | 0                           |  |
| 1505             | SODIUM PERSULPHATE                           | 5.1      | O2                  | III           | 5.1       |                    | LQ12<br>E1                      |                    | PP                 |             |   | 0                           |  |
| 1506             | STRONTIUM CHLORATE                           | 5.1      | O2                  | II            | 5.1       |                    | LQ11<br>E2                      |                    | PP                 |             |   | 0                           |  |
| 1507             | STRONTIUM NITRATE                            | 5.1      | O2                  | III           | 5.1       |                    | LQ12<br>E1                      | <b>B</b>           | PP                 |             | CO02<br>LO04  | 0                           | CO02 and LO04 apply only when this substance is carried in bulk or without packaging |
| 1508             | STRONTIUM PERCHLORATE                        | 5.1      | O2                  | II            | 5.1       |                    | LQ11<br>E2                      |                    | PP                 |             |   | 0                           |  |

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|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|---------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)    | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 1509             | STRONTIUM PEROXIDE  | 5.1      | O2                  | II            | 5.1       | 609                | LQ11                            |                    | PP                 | VE02          |   | 0                           |            |
| 1510             | TETRANITROMETHANE   | 5.1      | OT1                 | I             | 5.1+6.1   | 802                | LQ0                             |                    | PP, EP, TOX, A     | VE02          |   | 2                           |            |
| 1511             | UREA HYDROGEN PEROXIDE  | 5.1      | OC2                 | III           | 5.1+8     |                    | LQ12                            |                    | PP                 |               |   | 0                           |            |
| 1512             | ZINC AMMONIUM NITRIDE   | 5.1      | O2                  | II            | 5.1       |                    | LQ11                            |                    | PP                 |               |   | 0                           |            |
| 1513             | ZINC CHLORATE   | 5.1      | O2                  | II            | 5.1       |                    | LQ11                            |                    | PP                 |               |   | 0                           |            |
| 1514             | ZINC NITRATE  | 5.1      | O2                  | II            | 5.1       |                    | LQ11                            |                    | PP                 |               |   | 0                           |            |
| 1515             | ZINC PERMANGANATE   | 5.1      | O2                  | II            | 5.1       |                    | LQ11                            |                    | PP                 |               |   | 0                           |            |
| 1516             | ZINC PEROXIDE   | 5.1      | O2                  | II            | 5.1       |                    | LQ11                            |                    | PP                 |               |   | 0                           |            |
| 1517             | ZIRCONIUM PICRAMATE, WETTED with not less than 20% water, by mass   | 4.1      | D                   | I             | 4.1       |                    | LQ0                             |                    | PP                 |               |   | 1                           |            |
| 1541             | ACETONE CYANOHYDRIN, STABILIZED   | 6.1      | T1                  | I             | 6.1       | 802                | LQ0                             | T                  | PP, EP, TOX, A     | VE02          |   | 2                           |            |
| 1544             | ALKALOIDS, SOLID, N.O.S. or ALKALOID SALTS, SOLID, N.O.S.   | 6.1      | T2                  | I             | 6.1       | 43<br>274<br>802   | LQ0                             |                    | PP, EP             |               |   | 2                           |            |
| 1544             | ALKALOIDS, SOLID, N.O.S. or ALKALOID SALTS, SOLID, N.O.S.   | 6.1      | T2                  | II            | 6.1       | 43<br>274<br>802   | LQ18                            |                    | PP, EP             |               |   | 2                           |            |
| 1544             | ALKALOIDS, SOLID, N.O.S. or ALKALOID SALTS, SOLID, N.O.S.   | 6.1      | T2                  | III           | 6.1       | 43<br>274<br>802   | LQ9                             |                    | PP, EP             |               |   | 0                           |            |
| 1545             | ALLYL ISOTHIOCYANATE, STABILIZED  | 6.1      | TF1                 | II            | 6.1+3     | 802                | LQ17                            | T                  | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 2                           |            |
| 1546             | AMMONIUM ARSENATE   | 6.1      | T5                  | II            | 6.1       | 802                | LQ18                            |                    | PP, EP             |               |   | 2                           |            |
| 1547             | ANILINE   | 6.1      | T1                  | II            | 6.1       | 279<br>802         | LQ17                            | T                  | PP, EP, TOX, A     | VE02          |   | 2                           |            |
| 1548             | ANILINE HYDROCHLORIDE   | 6.1      | T2                  | III           | 6.1       | 802                | LQ9                             |                    | PP, EP             |               |   | 0                           |            |
| 1549             | ANTIMONY COMPOUND, INORGANIC, SOLID, N.O.S.   | 6.1      | T5                  | III           | 6.1       | 274<br>512<br>802  | LQ9                             |                    | PP, EP             |               |   | 0                           |            |
| 1550             | ANTIMONY LACTATE  | 6.1      | T5                  | III           | 6.1       | 802                | LQ9                             |                    | PP, EP             |               |   | 0                           |            |
| 1551             | ANTIMONY POTASSIUM TARTRATE   | 6.1      | T5                  | III           | 6.1       | 802                | LQ9                             |                    | PP, EP             |               |   | 0                           |            |
| 1553             | ARSENIC ACID, LIQUID  | 6.1      | T4                  | I             | 6.1       | 802                | LQ0                             |                    | PP, EP, TOX, A     | VE02          |   | 2                           |            |
| 1554             | ARSENIC ACID, SOLID   | 6.1      | T5                  | II            | 6.1       | 802                | LQ18                            |                    | PP, EP             |               |   | 2                           |            |
| 1555             | ARSENIC BROMIDE   | 6.1      | T5                  | II            | 6.1       | 802                | LQ18                            |                    | PP, EP             |               |   | 2                           |            |
| 1556             | ARSENIC COMPOUND, LIQUID, N.O.S., inorganic, including: Arsenates, n.o.s., Arsenites, n.o.s.; and Arsenic sulphides, n.o.s. | 6.1      | T4                  | I             | 6.1       | 43<br>274<br>802   | LQ0                             |                    | PP, EP, TOX, A     | VE02          |   | 2                           |            |
| 1556             | ARSENIC COMPOUND, LIQUID, N.O.S., inorganic, including: Arsenates, n.o.s., Arsenites, n.o.s.; and Arsenic sulphides, n.o.s. | 6.1      | T4                  | II            | 6.1       | 43<br>274<br>802   | LQ17                            |                    | PP, EP, TOX, A     | VE02          |   | 2                           |            |

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|------------------|---|----------|---------------------|---------------|-----------|---------------------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |   |          |                     |               |           |                                 | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (11)  | 7.1.6 (12) |                             |         |
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)                         | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 1556             | ARSENIC COMPOUND, LIQUID, N.O.S., inorganic, including: Arsenates, n.o.s.; Arsenites, n.o.s.; and Arsenic sulphides, n.o.s. | 6.1      | T4                  | III           | 6.1       | 43<br>274<br>802                | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0          |                             |         |
| 1557             | ARSENIC COMPOUND, SOLID, N.O.S., inorganic, including: Arsenates, n.o.s.; Arsenites, n.o.s.; and Arsenic sulphides, n.o.s.  | 6.1      | T5                  | I             | 6.1       | 43<br>274<br>802                | LQ0                             | E5           |                    | PP, EP             |             |   | 2          |                             |         |
| 1557             | ARSENIC COMPOUND, SOLID, N.O.S., inorganic, including: Arsenates, n.o.s.; Arsenites, n.o.s.; and Arsenic sulphides, n.o.s.  | 6.1      | T5                  | II            | 6.1       | 43<br>274<br>802                | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 1557             | ARSENIC COMPOUND, SOLID, N.O.S., inorganic, including: Arsenates, n.o.s.; Arsenites, n.o.s.; and Arsenic sulphides, n.o.s.  | 6.1      | T5                  | III           | 6.1       | 43<br>274<br>802                | LQ9                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 1558             | ARSENIC   | 6.1      | T5                  | II            | 6.1       | 802                             | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 1559             | ARSENIC PENTOXIDE   | 6.1      | T5                  | II            | 6.1       | 802                             | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 1560             | ARSENIC TRICHLORIDE   | 6.1      | T4                  | I             | 6.1       | 802                             | LQ0                             | E5           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 1561             | ARSENIC TRIOXIDE  | 6.1      | T5                  | II            | 6.1       | 802                             | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 1562             | ARSENICAL DUST  | 6.1      | T5                  | II            | 6.1       | 802                             | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 1564             | BARIUM COMPOUND, N.O.S.   | 6.1      | T5                  | II            | 6.1       | 177<br>274<br>513<br>587<br>802 | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 1564             | BARIUM COMPOUND, N.O.S.   | 6.1      | T5                  | III           | 6.1       | 177                             | LQ9                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 1565             | BARIUM CYANIDE  | 6.1      | T5                  | I             | 6.1       | 802                             | LQ0                             | E5           |                    | PP, EP             |             |   | 2          |                             |         |
| 1566             | BERYLLIUM COMPOUND, N.O.S.  | 6.1      | T5                  | II            | 6.1       | 274<br>514<br>802               | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 1566             | BERYLLIUM COMPOUND, N.O.S.  | 6.1      | T5                  | III           | 6.1       | 274<br>514<br>802               | LQ9                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 1567             | BERYLLIUM POWDER  | 6.1      | TF3                 | II            | 6.1+4.1   | 802                             | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 1569             | BROMOACETONE  | 6.1      | TF1                 | II            | 6.1+3     | 802                             | LQ17                            | E4           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 1570             | BRUCINE   | 6.1      | T2                  | I             | 6.1       | 43<br>802                       | LQ0                             | E5           |                    | PP, EP             |             |   | 2          |                             |         |
| 1571             | BARIUM AZIDE, WETTED with not less than 50% water, by mass  | 4.1      | DT                  | I             | 4.1+6.1   | 568<br>802                      | LQ0                             | E0           |                    | PP                 |             |   | 2          |                             |         |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 1572             | CACODYLIC ACID   | 6.1      | T5                  | II            | 6.1       | 802                | LQ18                            |                    | PP, EP             |             |   | 2                           |            |
| 1573             | CALCIUM ARSENATE   | 6.1      | T5                  | II            | 6.1       | 802                | LQ18                            |                    | PP, EP             |             |   | 2                           |            |
| 1574             | CALCIUM ARSENATE AND CALCIUM ARSENITE MIXTURE, SOLID                   | 6.1      | T5                  | II            | 6.1       | 802                | LQ18                            |                    | PP, EP             |             |   | 2                           |            |
| 1575             | CALCIUM CYANIDE  | 6.1      | T5                  | I             | 6.1       | 802                | LQ0                             |                    | PP, EP             |             |   | 2                           |            |
| 1577             | CHLORODINITROBENZENES, LIQUID  | 6.1      | T1                  | II            | 6.1       | 279                | LQ17                            |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1578             | CHLORONITROBENZENES, SOLID   | 6.1      | T2                  | II            | 6.1       | 279                | LQ18                            | T                  | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1579             | 4-CHLORO-o-TOLUIDINE   | 6.1      | T2                  | III           | 6.1       | 802                | LQ9                             |                    | PP, EP             |             |   | 0                           |            |
| 1580             | HYDROCHLORIDE, SOLID   | 6.1      | T1                  | I             | 6.1       | 802                | LQ0                             |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1581             | CHLOROPICRIN AND METHYL BROMIDE MIXTURE with more than 2% chloropicrin | 2        | 2T                  |               | 2.3       |                    | LQ0                             |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1582             | CHLOROPICRIN AND METHYL CHLORIDE MIXTURE                               | 2        | 2T                  |               | 2.3       |                    | LQ0                             |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1583             | CHLOROPICRIN MIXTURE, N.O.S.   | 6.1      | T1                  | I             | 6.1       | 274                | LQ0                             |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1583             | CHLOROPICRIN MIXTURE, N.O.S.   | 6.1      | T1                  | II            | 6.1       | 315                | LQ17                            |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1583             | CHLOROPICRIN MIXTURE, N.O.S.   | 6.1      | T1                  | III           | 6.1       | 515                | LQ7                             |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 1585             | COPPER ACETOARSENITE   | 6.1      | T5                  | II            | 6.1       | 802                | LQ18                            |                    | PP, EP             |             |   | 2                           |            |
| 1586             | COPPER ARSENITE  | 6.1      | T5                  | II            | 6.1       | 802                | LQ18                            |                    | PP, EP             |             |   | 2                           |            |
| 1587             | COPPER CYANIDE   | 6.1      | T5                  | II            | 6.1       | 802                | LQ18                            |                    | PP, EP             |             |   | 2                           |            |
| 1588             | CYANIDES, INORGANIC, SOLID, N.O.S.                                     | 6.1      | T5                  | I             | 6.1       | 47                 | LQ0                             |                    | PP, EP             |             |   | 2                           |            |
| 1588             | CYANIDES, INORGANIC, SOLID, N.O.S.                                     | 6.1      | T5                  | II            | 6.1       | 802                | LQ18                            |                    | PP, EP             |             |   | 2                           |            |
| 1588             | CYANIDES, INORGANIC, SOLID, N.O.S.                                     | 6.1      | T5                  | III           | 6.1       | 47                 | LQ9                             |                    | PP, EP             |             |   | 0                           |            |
| 1589             | CYANOGEN CHLORIDE, STABILIZED  | 2        | 2TC                 |               | 2.3+8     |                    | LQ0                             |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1590             | DICHLOROANILINES, LIQUID   | 6.1      | T1                  | II            | 6.1       | 279                | LQ17                            |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1591             | o-DICHLOROBENZENE  | 6.1      | T1                  | III           | 6.1       | 279                | LQ7                             | T                  | PP, EP, TOX, A     | VE02        |   | 0                           |            |

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|------------------|---|-------|---------------------|---------------|--------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|---------|
|                  | 3.1.2   | 2.2   | 2.2                 | 2.1.1.3       | 5.2.2  | 3.3                | 3.4.6                           | 3.2.1              | 8.1.5              | 7.1.6       | 7.1.6   | 7.1.5                       |         |
| (1)              | (2)   | (3a)  | (3b)                | (4)           | (5)    | (6)                | (7a)                            | (8)                | (9)                | (10)        | (11)  | (12)                        | (13)    |
| 1593             | DICHLOROMETHANE   | 6.1   | T1                  | III           | 6.1    | 516<br>802         | LQ7                             | T                  | PP, EP, TOX, A     | VE02        |   | 0                           |         |
| 1594             | DIETHYL SULPHATE  | 6.1   | T1                  | II            | 6.1    | 802                | LQ17                            | T                  | PP, EP, TOX, A     | VE02        |   | 2                           |         |
| 1595             | DIMETHYL SULPHATE   | 6.1   | TC1                 | I             | 6.1+8  | 802                | LQ0                             | T                  | PP, EP, TOX, A     | VE02        |   | 2                           |         |
| 1596             | DINITROANILINES   | 6.1   | T2                  | II            | 6.1    | 802                | LQ18                            |                    | PP, EP             |             |   | 2                           |         |
| 1597             | DINITROBENZENES, LIQUID   | 6.1   | T1                  | II            | 6.1    | 802                | LQ17                            |                    | PP, EP, TOX, A     | VE02        |   | 2                           |         |
| 1597             | DINITROBENZENES, LIQUID   | 6.1   | T1                  | III           | 6.1    | 802                | LQ7                             |                    | PP, EP, TOX, A     | VE02        |   | 0                           |         |
| 1598             | DINITRO-o-CRESOL  | 6.1   | T2                  | II            | 6.1    | 43<br>802          | LQ18                            |                    | PP, EP             |             |   | 2                           |         |
| 1599             | DINTROPHENOL SOLUTION   | 6.1   | T1                  | II            | 6.1    | 802                | LQ17                            |                    | PP, EP, A          |             |   | 2                           |         |
| 1599             | DINTROPHENOL SOLUTION   | 6.1   | T1                  | III           | 6.1    | 802                | LQ7                             |                    | PP, EP, A          |             |   | 0                           |         |
| 1600             | DINTROTOLUENES, MOLTEN  | 6.1   | T1                  | II            | 6.1    | 802                | LQ0                             |                    | PP, EP, TOX, A     | VE02        |   | 2                           |         |
| 1601             | DISINFECTANT, SOLID, TOXIC, N.O.S.  | 6.1   | T2                  | I             | 6.1    | 274<br>802         | LQ0                             |                    | PP, EP             |             |   | 2                           |         |
| 1601             | DISINFECTANT, SOLID, TOXIC, N.O.S.  | 6.1   | T2                  | II            | 6.1    | 274<br>802         | LQ18                            |                    | PP, EP             |             |   | 2                           |         |
| 1601             | DISINFECTANT, SOLID, TOXIC, N.O.S.  | 6.1   | T2                  | III           | 6.1    | 274<br>802         | LQ9                             |                    | PP, EP             |             |   | 0                           |         |
| 1602             | DYE, LIQUID, TOXIC, N.O.S. or DYE INTERMEDIATE, LIQUID, TOXIC, N.O.S.   | 6.1   | T1                  | I             | 6.1    | 274<br>802         | LQ0                             |                    | PP, EP, TOX, A     | VE02        |   | 2                           |         |
| 1602             | DYE, LIQUID, TOXIC, N.O.S. or DYE INTERMEDIATE, LIQUID, TOXIC, N.O.S.   | 6.1   | T1                  | II            | 6.1    | 274<br>802         | LQ17                            |                    | PP, EP, TOX, A     | VE02        |   | 2                           |         |
| 1602             | DYE, LIQUID, TOXIC, N.O.S. or DYE INTERMEDIATE, LIQUID, TOXIC, N.O.S.   | 6.1   | T1                  | III           | 6.1    | 274<br>802         | LQ7                             |                    | PP, EP, TOX, A     | VE02        |   | 0                           |         |
| 1603             | ETHYL BROMOACETATE  | 6.1   | TF1                 | II            | 6.1+3  | 802                | LQ17                            |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |         |
| 1604             | ETHYLENEDIAMINE   | 8     | CF1                 | II            | 8+3    |                    | LQ22                            | T                  | PP, EP, EX, A      | VE01        |   | 1                           |         |
| 1605             | ETHYLENE DIBROMIDE  | 6.1   | T1                  | I             | 6.1    | 802                | LQ0                             | T                  | PP, EP, TOX, A     | VE02        |   | 2                           |         |
| 1606             | FERRIC ARSENATE   | 6.1   | T5                  | II            | 6.1    | 802                | LQ18                            |                    | PP, EP             |             |   | 2                           |         |
| 1607             | FERRIC ARSENITE   | 6.1   | T5                  | II            | 6.1    | 802                | LQ18                            |                    | PP, EP             |             |   | 2                           |         |
| 1608             | FERROUS ARSENATE  | 6.1   | T5                  | II            | 6.1    | 802                | LQ18                            |                    | PP, EP             |             |   | 2                           |         |
| 1611             | HEXAETHYL TETRAPHOSPHATE  | 6.1   | T1                  | II            | 6.1    | 802                | LQ17                            |                    | PP, EP, TOX, A     | VE02        |   | 2                           |         |
| 1612             | HEXAETHYL TETRAPHOSPHATE AND COMPRESSED GAS MIXTURE   | 2     | IT                  |               | 2.3    |                    | LQ0                             |                    | PP, EP, TOX, A     | VE02        |   | 2                           |         |
| 1613             | HYDROCYANIC ACID, AQUEOUS SOLUTION (HYDROGEN CYANIDE, AQUEOUS SOLUTION) with not more than 20% hydrogen cyanide | 6.1   | TF1                 | I             | 6.1+3  | 48<br>802          | LQ0                             |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |         |

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|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|---------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a) 3.5.1.2 (7b)         | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)    | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 1614             | HYDROGEN CYANIDE, STABILIZED, containing less than 3% water and absorbed in a porous inert material | 6.1      | TF1                 | I             | 6.1+3     | 603<br>802         | LQ0 E5                          |                    | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 2                           |            |
| 1616             | LEAD ACETATE  | 6.1      | T5                  | III           | 6.1       | 802                | LQ9 E1                          |                    | PP, EP             |               |   | 0                           |            |
| 1617             | LEAD ARSENATES  | 6.1      | T5                  | II            | 6.1       | 802                | LQ18 E4                         |                    | PP, EP             |               |   | 2                           |            |
| 1618             | LEAD ARSENITES  | 6.1      | T5                  | II            | 6.1       | 802                | LQ18 E4                         |                    | PP, EP             |               |   | 2                           |            |
| 1620             | LEAD CYANIDE  | 6.1      | T5                  | II            | 6.1       | 802                | LQ18 E4                         |                    | PP, EP             |               |   | 2                           |            |
| 1621             | LONDON PURPLE   | 6.1      | T5                  | II            | 6.1       | 43<br>802          | LQ18 E4                         |                    | PP, EP             |               |   | 2                           |            |
| 1622             | MAGNESIUM ARSENATE  | 6.1      | T5                  | II            | 6.1       | 802                | LQ18 E4                         |                    | PP, EP             |               |   | 2                           |            |
| 1623             | MERCURIC ARSENATE   | 6.1      | T5                  | II            | 6.1       | 802                | LQ18 E4                         |                    | PP, EP             |               |   | 2                           |            |
| 1624             | MERCURIC CHLORIDE   | 6.1      | T5                  | II            | 6.1       | 802                | LQ18 E4                         |                    | PP, EP             |               |   | 2                           |            |
| 1625             | MERCURIC NITRATE  | 6.1      | T5                  | II            | 6.1       | 802                | LQ18 E4                         |                    | PP, EP             |               |   | 2                           |            |
| 1626             | MERCURIC POTASSIUM CYANIDE  | 6.1      | T5                  | I             | 6.1       | 802                | LQ0 E5                          |                    | PP, EP             |               |   | 2                           |            |
| 1627             | MERCURIOS NITRATE   | 6.1      | T5                  | II            | 6.1       | 802                | LQ18 E4                         |                    | PP, EP             |               |   | 2                           |            |
| 1629             | MERCURY ACETATE   | 6.1      | T5                  | II            | 6.1       | 802                | LQ18 E4                         |                    | PP, EP             |               |   | 2                           |            |
| 1630             | MERCURY AMMONIUM CHLORIDE   | 6.1      | T5                  | II            | 6.1       | 802                | LQ18 E4                         |                    | PP, EP             |               |   | 2                           |            |
| 1631             | MERCURY BENZOATE  | 6.1      | T5                  | II            | 6.1       | 802                | LQ18 E4                         |                    | PP, EP             |               |   | 2                           |            |
| 1634             | MERCURY BROMIDES  | 6.1      | T5                  | II            | 6.1       | 802                | LQ18 E4                         |                    | PP, EP             |               |   | 2                           |            |
| 1636             | MERCURY CYANIDE   | 6.1      | T5                  | II            | 6.1       | 802                | LQ18 E4                         |                    | PP, EP             |               |   | 2                           |            |
| 1637             | MERCURY GLUCONATE   | 6.1      | T5                  | II            | 6.1       | 802                | LQ18 E4                         |                    | PP, EP             |               |   | 2                           |            |
| 1638             | MERCURY IODIDE  | 6.1      | T5                  | II            | 6.1       | 802                | LQ18 E4                         |                    | PP, EP             |               |   | 2                           |            |
| 1639             | MERCURY NUCLEATE  | 6.1      | T5                  | II            | 6.1       | 802                | LQ18 E4                         |                    | PP, EP             |               |   | 2                           |            |
| 1640             | MERCURY OLEATE  | 6.1      | T5                  | II            | 6.1       | 802                | LQ18 E4                         |                    | PP, EP             |               |   | 2                           |            |
| 1641             | MERCURY OXIDE   | 6.1      | T5                  | II            | 6.1       | 802                | LQ18 E4                         |                    | PP, EP             |               |   | 2                           |            |
| 1642             | MERCURY OXYCYANIDE, DESENSITIZED  | 6.1      | T5                  | II            | 6.1       | 802                | LQ18 E4                         |                    | PP, EP             |               |   | 2                           |            |
| 1643             | MERCURY POTASSIUM IODIDE  | 6.1      | T5                  | II            | 6.1       | 802                | LQ18 E4                         |                    | PP, EP             |               |   | 2                           |            |
| 1644             | MERCURY SALICYLATE  | 6.1      | T5                  | II            | 6.1       | 802                | LQ18 E4                         |                    | PP, EP             |               |   | 2                           |            |
| 1645             | MERCURY SULPHATE  | 6.1      | T5                  | II            | 6.1       | 802                | LQ18 E4                         |                    | PP, EP             |               |   | 2                           |            |
| 1646             | MERCURY THIOCYANATE   | 6.1      | T5                  | II            | 6.1       | 802                | LQ18 E4                         |                    | PP, EP             |               |   | 2                           |            |
| 1647             | METHYL BROMIDE AND ETHYLENE DIBROMIDE MIXTURE, LIQUID   | 6.1      | T1                  | I             | 6.1       | 802                | LQ0 E5                          |                    | PP, EP, TOX, A     | VE02          |   | 2                           |            |
| 1648             | ACETONITRILE  | 3        | F1                  | II            | 3         |                    | LQ4 E2                          | T                  | PP, EX, A          | VE01          |   | 1                           |            |
| 1649             | MOTOR FUEL ANTI-KNOCK MIXTURE having a flash-point above 60 °C                                      | 6.1      | T3                  | I             | 6.1       | 802                | LQ0 E5                          |                    | PP, EP, TOX, A     | VE02          |   | 2                           |            |
| 1649             | MOTOR FUEL ANTI-KNOCK MIXTURE having a flash-point of not more than 60 °C                           | 6.1      | TF1                 | I             | 6.1       | 802                | LQ0 E5                          |                    | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 2                           |            |
| 1650             | beta-NAPHTHYLAMINE, SOLID   | 6.1      | T2                  | II            | 6.1       | 802                | LQ18 E4                         |                    | PP, EP             |               |   | 2                           |            |
| 1651             | NAPHTHYLTHIOUREA  | 6.1      | T2                  | II            | 6.1       | 43<br>802          | LQ18 E4                         |                    | PP, EP             |               |   | 2                           |            |
| 1652             | NAPHTHYLUREA  | 6.1      | T2                  | II            | 6.1       | 802                | LQ18 E4                         |                    | PP, EP             |               |   | 2                           |            |
| 1653             | NICKEL CYANIDE  | 6.1      | T5                  | II            | 6.1       | 802                | LQ18 E4                         |                    | PP, EP             |               |   | 2                           |            |
| 1654             | NICOTINE  | 6.1      | T1                  | II            | 6.1       | 802                | LQ17 E4                         |                    | PP, EP, TOX, A     | VE02          |   | 2                           |            |

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|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |   |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (11)  | 7.1.6 (12) |                             |         |
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 1655             | NICOTINE COMPOUND, SOLID, N.O.S. or NICOTINE PREPARATION, SOLID, N.O.S. | 6.1      | T2                  | I             | 6.1       | 43<br>274<br>802   | LQ0                             | E5           |                    | PP, EP             |             |   | 2          |                             |         |
| 1655             | NICOTINE COMPOUND, SOLID, N.O.S. or NICOTINE PREPARATION, SOLID, N.O.S. | 6.1      | T2                  | II            | 6.1       | 43<br>274          | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 1655             | NICOTINE COMPOUND, SOLID, N.O.S. or NICOTINE PREPARATION, SOLID, N.O.S. | 6.1      | T2                  | III           | 6.1       | 43<br>274<br>802   | LQ9                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 1656             | NICOTINE HYDROCHLORIDE, LIQUID or SOLUTION                              | 6.1      | T1                  | II            | 6.1       | 43<br>802          | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 1656             | NICOTINE HYDROCHLORIDE, LIQUID or SOLUTION                              | 6.1      | T1                  | III           | 6.1       | 43<br>802          | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0          |                             |         |
| 1657             | NICOTINE SALICYLATE   | 6.1      | T2                  | II            | 6.1       | 802                | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 1658             | NICOTINE SULPHATE, SOLUTION   | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 1658             | NICOTINE SULPHATE, SOLUTION   | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0          |                             |         |
| 1659             | NICOTINE TARTRATE   | 6.1      | T2                  | II            | 6.1       | 802                | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 1660             | NITRIC OXIDE, COMPRESSED  | 2        | ITOC                |               | 2.3+5.1+8 |                    | LQ0                             | E0           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 1661             | NITROANILINES (o-, m-, p-)  | 6.1      | T2                  | II            | 6.1       | 279<br>802         | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 1662             | NITROBENZENE  | 6.1      | T1                  | II            | 6.1       | 279<br>802         | LQ17                            | E4           | T                  | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 1663             | NITROPHENOLS (o-, m-, p-)   | 6.1      | T2                  | III           | 6.1       | 279<br>802         | LQ9                             | E1           | T                  | PP, EP             |             |   | 0          |                             |         |
| 1664             | NITROTOLUENES, LIQUID   | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4           | T                  | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 1665             | NITROXYLENES, LIQUID  | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 1669             | PENTACHLOROETHANE   | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 1670             | PERCHLOROMETHYL MERCAPTAN   | 6.1      | T1                  | I             | 6.1       | 802                | LQ0                             | E5           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 1671             | PHENOL, SOLID   | 6.1      | T2                  | II            | 6.1       | 279<br>802         | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 1672             | PHENYL CARBYLAMINE CHLORIDE   | 6.1      | T1                  | I             | 6.1       | 802                | LQ0                             | E5           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 1673             | PHENYLENEDIAMINES (o-, m-, p-)  | 6.1      | T2                  | III           | 6.1       | 279<br>802         | LQ9                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 1674             | PHENYLMERCURIC ACETATE  | 6.1      | T3                  | II            | 6.1       | 43<br>802          | LQ18                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 1677             | POTASSIUM ARSENATE  | 6.1      | T5                  | II            | 6.1       | 802                | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 1678             | POTASSIUM ARSENITE  | 6.1      | T5                  | II            | 6.1       | 802                | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 1679             | POTASSIUM CUPROCYANIDE  | 6.1      | T5                  | II            | 6.1       | 802                | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |



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|------------------|------------------------------------|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)                          | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 1680             | POTASSIUM CYANIDE, SOLID           | 6.1      | T5                  | I             | 6.1       | 802                | LQ0                             |                    | PP, EP             |             |   | 2                           |            |
| 1683             | SILVER ARSENITE                    | 6.1      | T5                  | II            | 6.1       | 802                | LQ18                            |                    | PP, EP             |             |   | 2                           |            |
| 1684             | SILVER CYANIDE                     | 6.1      | T5                  | II            | 6.1       | 802                | LQ18                            |                    | PP, EP             |             |   | 2                           |            |
| 1685             | SODIUM ARSENATE                    | 6.1      | T5                  | II            | 6.1       | 802                | LQ18                            |                    | PP, EP             |             |   | 2                           |            |
| 1686             | SODIUM ARSENITE, AQUEOUS SOLUTION  | 6.1      | T4                  | II            | 6.1       | 43                 | LQ17                            |                    | PP, EP             |             |   | 2                           |            |
| 1686             | SODIUM ARSENITE, AQUEOUS SOLUTION  | 6.1      | T4                  | III           | 6.1       | 43                 | LQ7                             |                    | PP, EP             |             |   | 0                           |            |
| 1687             | SODIUM AZIDE                       | 6.1      | T5                  | II            | 6.1       | 802                | LQ18                            |                    | PP, EP             |             |   | 2                           |            |
| 1688             | SODIUM CACODYLATE                  | 6.1      | T5                  | II            | 6.1       | 802                | LQ18                            |                    | PP, EP             |             |   | 2                           |            |
| 1689             | SODIUM CYANIDE, SOLID              | 6.1      | T5                  | I             | 6.1       | 802                | LQ0                             |                    | PP, EP             |             |   | 2                           |            |
| 1690             | SODIUM FLUORIDE, SOLID             | 6.1      | T5                  | III           | 6.1       | 802                | LQ9                             | B                  | PP, EP             |             |   | 0                           |            |
| 1691             | STRONTIUM ARSENITE                 | 6.1      | T5                  | II            | 6.1       | 802                | LQ18                            |                    | PP, EP             |             |   | 2                           |            |
| 1692             | STRYCHNINE or STRYCHNINE SALTS     | 6.1      | T2                  | I             | 6.1       | 802                | LQ0                             |                    | PP, EP             | VE02        |   | 2                           |            |
| 1693             | TEAR GAS SUBSTANCE, LIQUID, N.O.S. | 6.1      | T1                  | I             | 6.1       | 274                | LQ0                             |                    | PP, EP, TOX, A     |             |   | 2                           |            |
| 1693             | TEAR GAS SUBSTANCE, LIQUID, N.O.S. | 6.1      | T1                  | II            | 6.1       | 274                | LQ17                            |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1694             | BROMOBENZYL CYANIDES, LIQUID       | 6.1      | T1                  | I             | 6.1       | 138                | LQ0                             |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1695             | CHLOROACETONE, STABILIZED          | 6.1      | TFC                 | I             | 6.1+3+8   | 802                | LQ0                             |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 1697             | CHLOROACETOPHENONE, SOLID          | 6.1      | T2                  | II            | 6.1       | 802                | LQ18                            |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1698             | DIPHENYLAMINE CHLOROARSINE         | 6.1      | T3                  | I             | 6.1       | 802                | LQ0                             |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1699             | DIPHENYLCHLOROARSINE, LIQUID       | 6.1      | T3                  | I             | 6.1       | 802                | LQ0                             |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1700             | TEAR GAS CANDLES                   | 6.1      | TF3                 | II            | 6.1+4.1   | 802                | LQ18                            |                    | PP, EP             |             |   | 2                           |            |
| 1701             | XYLYL BROMIDE, LIQUID              | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1702             | 1,1,2,2-TETRACHLOROETHANE          | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1704             | TETRAETHYL DITHIOPYROPHOSPHATE     | 6.1      | T2                  | II            | 6.1       | 43                 | LQ18                            |                    | PP, EP             |             |   | 2                           |            |
| 1707             | THALLIUM COMPOUND, N.O.S.          | 6.1      | T5                  | II            | 6.1       | 43                 | LQ18                            |                    | PP, EP             |             |   | 2                           |            |
| 1708             | TOLUIDINES, LIQUID                 | 6.1      | T1                  | II            | 6.1       | 279                | LQ17                            | T                  | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1709             | 2,4-TOLUYLENEDIAMINE, SOLID        | 6.1      | T2                  | III           | 6.1       | 802                | LQ9                             |                    | PP, EP             |             |   | 0                           |            |
| 1710             | TRICHLOROETHYLENE                  | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | T                  | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 1711             | XYLIDINES, LIQUID                  | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |

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|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
|                  |   |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             |   |                             |            |
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 1712             | ZINC ARSENATE, ZINC ARSENITE or ZINC ARSENATE AND ZINC ARSENITE MIXTURE | 6.1      | T5                  | II            | 6.1       | 802                | LQ18                            | E4           |                    | PP, EP             |             |   | 2                           |            |
| 1713             | ZINC CYANIDE  | 6.1      | T5                  | I             | 6.1       | 802                | LQ0                             | E5           |                    | PP, EP             |             |   | 2                           |            |
| 1714             | ZINC PHOSPHIDE  | 4.3      | WT2                 | I             | 4.3+6.1   | 802                | LQ0                             | E0           |                    | PP, EP, EX, TOX, A | VE01, VE02  | HA08  | 2                           |            |
| 1715             | ACETIC ANHYDRIDE  | 8        | CF1                 | II            | 8+3       |                    | LQ22                            | E2           | T                  | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 1716             | ACETYL BROMIDE  | 8        | C3                  | II            | 8         |                    | LQ22                            | E2           |                    | PP, EP             |             |   | 0                           |            |
| 1717             | ACETYL CHLORIDE   | 3        | FC                  | II            | 3+8       |                    | LQ4                             | E2           | T                  | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 1718             | BUTYL ACID PHOSPHATE  | 8        | C3                  | III           | 8         |                    | LQ7                             | E1           | T                  | PP, EP             |             |   | 0                           |            |
| 1719             | CAUSTIC ALKALI LIQUID, N.O.S.   | 8        | C5                  | II            | 8         | 274                | LQ22                            | E2           | T                  | PP, EP             |             |   | 0                           |            |
| 1719             | CAUSTIC ALKALI LIQUID, N.O.S.   | 8        | C5                  | III           | 8         | 274                | LQ7                             | E1           | T                  | PP, EP             |             |   | 0                           |            |
| 1722             | ALLYL CHLOROFORMATE   | 6.1      | TFC                 | I             | 6.1+3+8   | 802                | LQ0                             | E5           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 1723             | ALLYL IODIDE  | 3        | FC                  | II            | 3+8       |                    | LQ4                             | E2           |                    | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 1724             | ALLYL TRICHLOROSILANE, STABILIZED                                       | 8        | CF1                 | II            | 8+3       |                    | LQ22                            | E2           |                    | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 1725             | ALUMINIUM BROMIDE, ANHYDROUS  | 8        | C2                  | II            | 8         | 588                | LQ23                            | E2           |                    | PP, EP             |             |   | 0                           |            |
| 1726             | ALUMINIUM CHLORIDE, ANHYDROUS   | 8        | C2                  | II            | 8         | 588                | LQ23                            | E2           |                    | PP, EP             |             |   | 0                           |            |
| 1727             | AMMONIUM HYDROGENDIFLUORIDE, SOLID                                      | 8        | C2                  | II            | 8         |                    | LQ23                            | E2           |                    | PP, EP             |             |   | 0                           |            |
| 1728             | AMYL TRICHLOROSILANE  | 8        | C3                  | II            | 8         |                    | LQ22                            | E2           |                    | PP, EP             |             |   | 0                           |            |
| 1729             | ANISOYL CHLORIDE  | 8        | C4                  | II            | 8         |                    | LQ23                            | E2           |                    | PP, EP             |             |   | 0                           |            |
| 1730             | ANTIMONY PENTACHLORIDE, LIQUID  | 8        | C1                  | II            | 8         |                    | LQ22                            | E2           |                    | PP, EP             |             |   | 0                           |            |
| 1731             | ANTIMONY PENTACHLORIDE SOLUTION   | 8        | C1                  | II            | 8         |                    | LQ22                            | E2           |                    | PP, EP             |             |   | 0                           |            |
| 1731             | ANTIMONY PENTACHLORIDE SOLUTION   | 8        | C1                  | III           | 8         |                    | LQ7                             | E1           |                    | PP, EP             |             |   | 0                           |            |
| 1732             | ANTIMONY PENTAFLUORIDE  | 8        | CT1                 | II            | 8+6.1     | 802                | LQ22                            | E2           |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1733             | ANTIMONY TRICHLORIDE  | 8        | C2                  | II            | 8         |                    | LQ23                            | E2           |                    | PP, EP             |             |   | 0                           |            |
| 1736             | BENZOYL CHLORIDE  | 8        | C3                  | II            | 8         |                    | LQ22                            | E2           |                    | PP, EP             |             |   | 0                           |            |
| 1737             | BENZYL BROMIDE  | 6.1      | TC1                 | II            | 6.1+8     | 802                | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1738             | BENZYL CHLORIDE   | 6.1      | TC1                 | II            | 6.1+8     | 802                | LQ17                            | E4           | T                  | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1739             | BENZYL CHLOROFORMATE  | 8        | C9                  | I             | 8         |                    | LQ0                             | E0           |                    | PP, EP             |             |   | 0                           |            |
| 1740             | HYDROGENDIFLUORIDES, SOLID, N.O.S.                                      | 8        | C2                  | II            | 8         | 274<br>517         | LQ23                            | E2           |                    | PP, EP             |             |   | 0                           |            |
| 1740             | HYDROGENDIFLUORIDES, SOLID, N.O.S.                                      | 8        | C2                  | III           | 8         | 274<br>517         | LQ24                            | E1           |                    | PP, EP             |             |   | 0                           |            |
| 1741             | BORON TRICHLORIDE   | 2        | 2TC                 |               | 2.3+8     |                    | LQ0                             | E0           |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1742             | BORON TRIFLUORIDE ACETIC ACID COMPLEX, LIQUID                           | 8        | C3                  | II            | 8         |                    | LQ22                            | E2           | T                  | PP, EP             |             |   | 0                           |            |
| 1743             | BORON TRIFLUORIDE PROPIONIC ACID COMPLEX, LIQUID                        | 8        | C3                  | II            | 8         |                    | LQ22                            | E2           |                    | PP, EP             |             |   | 0                           |            |
| 1744             | BROMINE or BROMINE SOLUTION   | 8        | CT1                 | I             | 8+6.1     | 802                | LQ0                             | E0           |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 1745             | BROMINE PENTAFLUORIDE  | 5.1      | OTC                 | I             | 5.1+6.1+8 | 802                | LQ0                             |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1746             | BROMINE TRIFLUORIDE  | 5.1      | OTC                 | I             | 5.1+6.1+8 | 802                | LQ0                             |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1747             | BUTYLTRICHLOROSILANE   | 8        | CF1                 | II            | 8+3       |                    | LQ22                            |                    | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 1748             | CALCIUM HYPOCHLORITE, DRY or CALCIUM HYPOCHLORITE MIXTURE, DRY with more than 39% available chlorine (8.8% available oxygen) | 5.1      | O2                  | II            | 5.1       | 313<br>314<br>589  | LQ11                            |                    | PP                 |             |   | 0                           |            |
| 1748             | CALCIUM HYPOCHLORITE, DRY or CALCIUM HYPOCHLORITE MIXTURE, DRY with more than 39% available chlorine (8.8% available oxygen) | 5.1      | O2                  | III           | 5.1       | 316<br>589         | LQ12                            |                    | PP                 |             |   | 0                           |            |
| 1749             | CHLORINE TRIFLUORIDE   | 2        | 2TOC                |               | 2.3+5.1+8 |                    | LQ0                             |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1750             | CHLOROACETIC ACID SOLUTION   | 6.1      | TC1                 | II            | 6.1+8     | 802                | LQ17                            | T                  | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1751             | CHLOROACETIC ACID, SOLID   | 6.1      | TC2                 | II            | 6.1+8     | 802                | LQ18                            |                    | PP, EP             |             |   | 2                           |            |
| 1752             | CHLOROACETYL CHLORIDE  | 6.1      | TC1                 | I             | 6.1+8     | 802                | LQ0                             |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1753             | CHLOROPHENYLTRICHLOROSILANE  | 8        | C3                  | II            | 8         |                    | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 1754             | CHLOROSULPHONIC ACID (with or without sulphur trioxide)  | 8        | C1                  | I             | 8         |                    | LQ0                             |                    | PP, EP             |             |   | 0                           |            |
| 1755             | CHROMIC ACID SOLUTION  | 8        | C1                  | II            | 8         | 518                | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 1755             | CHROMIC ACID SOLUTION  | 8        | C1                  | III           | 8         | 518                | LQ7                             |                    | PP, EP             |             |   | 0                           |            |
| 1756             | CHROMIC FLUORIDE, SOLID  | 8        | C2                  | II            | 8         |                    | LQ23                            |                    | PP, EP             |             |   | 0                           |            |
| 1757             | CHROMIC FLUORIDE SOLUTION  | 8        | C1                  | II            | 8         |                    | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 1757             | CHROMIC FLUORIDE SOLUTION  | 8        | C1                  | III           | 8         |                    | LQ7                             |                    | PP, EP             |             |   | 0                           |            |
| 1758             | CHROMIUM OXYCHLORIDE   | 8        | C1                  | I             | 8         |                    | LQ0                             |                    | PP, EP             |             |   | 0                           |            |
| 1759             | CORROSIVE SOLID, N.O.S.  | 8        | C10                 | I             | 8         | 274                | LQ0                             |                    | PP, EP             |             |   | 0                           |            |
| 1759             | CORROSIVE SOLID, N.O.S.  | 8        | C10                 | II            | 8         | 274                | LQ23                            |                    | PP, EP             |             |   | 0                           |            |
| 1759             | CORROSIVE SOLID, N.O.S.  | 8        | C10                 | III           | 8         | 274                | LQ24                            |                    | PP, EP             |             |   | 0                           |            |
| 1760             | CORROSIVE LIQUID, N.O.S.   | 8        | C9                  | I             | 8         | 274                | LQ0                             | T                  | PP, EP             |             |   | 0                           |            |
| 1760             | CORROSIVE LIQUID, N.O.S.   | 8        | C9                  | II            | 8         | 274                | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 1760             | CORROSIVE LIQUID, N.O.S.   | 8        | C9                  | III           | 8         | 274                | LQ7                             |                    | PP, EP             |             |   | 0                           |            |
| 1761             | CUPRIETHYLENEDIAMINE SOLUTION  | 8        | CT1                 | II            | 8+6.1     | 802                | LQ22                            | T                  | PP, EP, A          |             |   | 2                           |            |
| 1761             | CUPRIETHYLENEDIAMINE SOLUTION  | 8        | CT1                 | III           | 8+6.1     | 802                | LQ7                             |                    | PP, EP, A          |             |   | 0                           |            |
| 1762             | CYCLOHEXYLTRICHLOROSILANE  | 8        | C3                  | II            | 8         |                    | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 1763             | CYCLOHEXYLTRICHLOROSILANE  | 8        | C3                  | II            | 8         |                    | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 1764             | DICHLOROACETIC ACID  | 8        | C3                  | II            | 8         |                    | LQ22                            | T                  | PP, EP             |             |   | 0                           |            |
| 1765             | DICHLOROACETYL CHLORIDE  | 8        | C3                  | II            | 8         |                    | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 1766             | DICHLOROPHENYLTRICHLOROSILANE  | 8        | C3                  | II            | 8         |                    | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 1767             | DIETHYLDICHLOROSILANE  | 8        | CF1                 | II            | 8+3       |                    | LQ22                            |                    | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 1768             | DIFLUOROPHOSPHORIC ACID, ANHYDROUS   | 8        | C1                  | II            | 8         |                    | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 1769             | DIPHENYLDICHLOROSILANE   | 8        | C3                  | II            | 8         |                    | LQ22                            |                    | PP, EP             |             |   | 0                           |            |

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|----------------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)                        | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a) 3.5.1.2 (7b)         | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 1770                       | DIPHENYLMETHYL-BROMIDE   | 8        | C10                 | II            | 8         |                    | E2                              |                    | PP, EP             |             |   | 0                           |            |
| 1771                       | DODECYLTRICHLOROSILANE   | 8        | C3                  | II            | 8         |                    | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 1773                       | FERRIC CHLORIDE, ANHYDROUS   | 8        | C2                  | III           | 8         | 590                | LQ24                            | T                  | PP, EP             |             |   | 0                           |            |
| 1774                       | FIRE EXTINGUISHER CHARGES, corrosive liquid                                  | 8        | C11                 | II            | 8         |                    | LQ22                            | T                  | PP, EP             |             |   | 0                           |            |
| 1775                       | FLUOROBORIC ACID   | 8        | C1                  | II            | 8         |                    | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 1776                       | FLUOROPHOSPHORIC ACID, ANHYDROUS   | 8        | C1                  | II            | 8         |                    | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 1777                       | FLUOROSULPHONIC ACID   | 8        | C1                  | I             | 8         |                    | LQ0                             |                    | PP, EP             |             |   | 0                           |            |
| 1778                       | FLUOROSILICIC ACID   | 8        | C1                  | II            | 8         |                    | LQ22                            | T                  | PP, EP             |             |   | 0                           |            |
| 1779                       | FORMIC ACID with more than 85% acid by mass                                  | 8        | CF1                 | II            | 8+3       |                    | LQ22                            | T                  | PP, EP, EX, A      |             |   | 0                           |            |
| 1780                       | FUMARYL CHLORIDE   | 8        | C3                  | II            | 8         |                    | LQ22                            | T                  | PP, EP             |             |   | 0                           |            |
| 1781                       | HEXADECYLTRICHLOROSILANE   | 8        | C3                  | II            | 8         |                    | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 1782                       | HEXAFLUOROPHOSPHORIC ACID  | 8        | C1                  | II            | 8         |                    | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 1783                       | HEXAMETHYLENEDIAMINE SOLUTION  | 8        | C7                  | II            | 8         |                    | LQ22                            | T                  | PP, EP             |             |   | 0                           |            |
| 1783                       | HEXAMETHYLENEDIAMINE SOLUTION  | 8        | C7                  | III           | 8         |                    | LQ7                             | T                  | PP, EP             |             |   | 0                           |            |
| 1784                       | HEXYLTRICHLOROSILANE   | 8        | C3                  | II            | 8         |                    | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 1786                       | HYDROFLUORIC ACID AND SULPHURIC ACID MIXTURE                                 | 8        | CT1                 | I             | 8+6.1     | 802                | LQ0                             |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1787                       | HYDRIODIC ACID   | 8        | C1                  | II            | 8         |                    | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 1787                       | HYDRIODIC ACID   | 8        | C1                  | III           | 8         |                    | LQ7                             |                    | PP, EP             |             |   | 0                           |            |
| 1788                       | HYDROBROMIC ACID   | 8        | C1                  | II            | 8         | 519                | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 1788                       | HYDROBROMIC ACID   | 8        | C1                  | III           | 8         | 519                | LQ7                             |                    | PP, EP             |             |   | 0                           |            |
| 1789                       | HYDROCHLORIC ACID  | 8        | C1                  | II            | 8         | 520                | LQ22                            | T                  | PP, EP             |             |   | 0                           |            |
| 1789                       | HYDROCHLORIC ACID  | 8        | C1                  | III           | 8         | 520                | LQ7                             | T                  | PP, EP             |             |   | 0                           |            |
| 1790                       | HYDROFLUORIC ACID with more than 85% hydrofluoric acid                       | 8        | CT1                 | I             | 8+6.1     | 640I 802           | LQ0                             |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1790                       | HYDROFLUORIC ACID with more than 60% but not more than 85% hydrofluoric acid | 8        | CT1                 | I             | 8+6.1     | 640J 802           | LQ0                             |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1790                       | HYDROFLUORIC ACID with not more than 60% hydrofluoric acid                   | 8        | CT1                 | II            | 8+6.1     | 802                | LQ22                            |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1791                       | HYPOCHLORITE SOLUTION  | 8        | C9                  | II            | 8         | 521                | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 1791                       | HYPOCHLORITE SOLUTION  | 8        | C9                  | III           | 8         | 521                | LQ7                             |                    | PP, EP             |             |   | 0                           |            |
| 1792                       | IODINE MONOCHLORIDE  | 8        | C1                  | II            | 8         |                    | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 1793                       | ISOPROPYL ACID PHOSPHATE   | 8        | C3                  | III           | 8         |                    | LQ7                             |                    | PP, EP             |             |   | 0                           |            |
| 1794                       | LEAD SULPHATE with more than 3% free acid                                    | 8        | C2                  | II            | 8         | 591                | LQ23                            |                    | PP, EP             |             |   | 0                           |            |
| 1796                       | NITRATING ACID MIXTURE with more than 50% nitric acid                        | 8        | CO1                 | I             | 8+5.1     |                    | LQ0                             |                    | PP, EP             |             |   | 0                           |            |
| 1796                       | NITRATING ACID MIXTURE with not more than 50% nitric acid                    | 8        | C1                  | II            | 8         |                    | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 1798                       | NITROHYDROCHLORIC ACID   | 8        | COT                 |               |           |                    |                                 |                    |                    |             |   |                             |            |
| <b>CARRIAGE PROHIBITED</b> |  |          |                     |               |           |                    |                                 |                    |                    |             |   |                             |            |
| 1799                       | NONYLTRICHLOROSILANE   | 8        | C3                  | II            | 8         |                    | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 1800                       | OCTADECYLTRICHLOROSILANE   | 8        | C3                  | II            | 8         |                    | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 1801                       | OCTYLTRICHLOROSILANE   | 8        | C3                  | II            | 8         |                    | LQ22                            |                    | PP, EP             |             |   | 0                           |            |

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|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a) 3.5.1.2 (7b)         | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 1802             | PERCHLORIC ACID with not more than 50% acid, by mass              | 8        | CO1                 | II            | 8+5.1     | 522                | LQ22 E2                         |                    | PP, EP             |             |   | 0                           |            |
| 1803             | PHENOLSULPHONIC ACID, LIQUID                                      | 8        | C3                  | II            | 8         |                    | LQ22 E2                         |                    | PP, EP             |             |   | 0                           |            |
| 1804             | PHENYLTRICHLOROSILANE   | 8        | C3                  | II            | 8         |                    | LQ22 E2                         |                    | PP, EP             |             |   | 0                           |            |
| 1805             | PHOSPHORIC ACID, SOLUTION   | 8        | C1                  | III           | 8         |                    | LQ7 E1                          | T                  | PP, EP             |             |   | 0                           |            |
| 1806             | PHOSPHORUS PENTACHLORIDE  | 8        | C2                  | II            | 8         |                    | LQ23 E2                         |                    | PP, EP             |             |   | 0                           |            |
| 1807             | PHOSPHORUS PENTOXIDE  | 8        | C2                  | II            | 8         |                    | LQ23 E2                         |                    | PP, EP             |             |   | 0                           |            |
| 1808             | PHOSPHORUS TRIBROMIDE   | 8        | C1                  | II            | 8         |                    | LQ22 E2                         |                    | PP, EP             |             |   | 0                           |            |
| 1809             | PHOSPHORUS TRICHLORIDE  | 6.1      | TC3                 | I             | 6.1+8     | 802                | LQ0 E5                          |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1810             | PHOSPHORUS OXYCHLORIDE  | 8        | C1                  | II            | 8         |                    | LQ22 E2                         |                    | PP, EP             |             |   | 0                           |            |
| 1811             | POTASSIUM HYDROGENDIFLUORIDE, SOLID                               | 8        | CT2                 | II            | 8+6.1     | 802                | LQ23 E2                         |                    | PP, EP             |             |   | 2                           |            |
| 1812             | POTASSIUM FLUORIDE, SOLID   | 6.1      | T5                  | III           | 6.1       | 802                | LQ9 E1                          | B                  | PP, EP             |             |   | 0                           |            |
| 1813             | POTASSIUM HYDROXIDE, SOLID  | 8        | C6                  | II            | 8         |                    | LQ23 E2                         |                    | PP, EP             |             |   | 0                           |            |
| 1814             | POTASSIUM HYDROXIDE SOLUTION                                      | 8        | C5                  | II            | 8         |                    | LQ22 E2                         | T                  | PP, EP             |             |   | 0                           |            |
| 1814             | POTASSIUM HYDROXIDE SOLUTION                                      | 8        | C5                  | III           | 8         |                    | LQ7 E1                          | T                  | PP, EP             |             |   | 0                           |            |
| 1815             | PROPIONYL CHLORIDE  | 3        | FC                  | II            | 3+8       |                    | LQ4 E2                          |                    | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 1816             | PROPYLTRICHLOROSILANE   | 8        | CF1                 | II            | 8+3       |                    | LQ22 E2                         |                    | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 1817             | PYROSULPHURYL CHLORIDE  | 8        | C1                  | II            | 8         |                    | LQ22 E2                         |                    | PP, EP             |             |   | 0                           |            |
| 1818             | SILICON TETRACHLORIDE   | 8        | C1                  | II            | 8         |                    | LQ0 E2                          |                    | PP, EP             |             |   | 0                           |            |
| 1819             | SODIUM ALUMINATE SOLUTION   | 8        | C5                  | II            | 8         |                    | LQ22 E2                         |                    | PP, EP             |             |   | 0                           |            |
| 1819             | SODIUM ALUMINATE SOLUTION   | 8        | C5                  | III           | 8         |                    | LQ7 E1                          |                    | PP, EP             |             |   | 0                           |            |
| 1823             | SODIUM HYDROXIDE, SOLID   | 8        | C6                  | II            | 8         |                    | LQ23 E2                         | T                  | PP, EP             |             |   | 0                           |            |
| 1824             | SODIUM HYDROXIDE SOLUTION   | 8        | C5                  | II            | 8         |                    | LQ22 E2                         | T                  | PP, EP             |             |   | 0                           |            |
| 1824             | SODIUM HYDROXIDE SOLUTION   | 8        | C5                  | III           | 8         |                    | LQ7 E1                          | T                  | PP, EP             |             |   | 0                           |            |
| 1825             | SODIUM MONOXIDE   | 8        | C6                  | II            | 8         |                    | LQ23 E2                         |                    | PP, EP             |             |   | 0                           |            |
| 1826             | NITRATING ACID MIXTURE, SPENT, with more than 50% nitric acid     | 8        | CO1                 | I             | 8+5.1     | 113                | LQ0 E0                          |                    | PP, EP             |             |   | 0                           |            |
| 1826             | NITRATING ACID MIXTURE, SPENT, with not more than 50% nitric acid | 8        | C1                  | II            | 8         | 113                | LQ22 E2                         |                    | PP, EP             |             |   | 0                           |            |
| 1827             | STANNIC CHLORIDE, ANHYDROUS                                       | 8        | C1                  | II            | 8         |                    | LQ22 E2                         |                    | PP, EP             |             |   | 0                           |            |
| 1828             | SULPHUR CHLORIDES   | 8        | C1                  | I             | 8         |                    | LQ0 E0                          |                    | PP, EP             |             |   | 0                           |            |
| 1829             | SULPHUR TRIOXIDE, STABILIZED                                      | 8        | C1                  | I             | 8         | 623                | LQ0 E0                          |                    | PP, EP             |             |   | 0                           |            |
| 1830             | SULPHURIC ACID with more than 51% acid                            | 8        | C1                  | II            | 8         |                    | LQ22 E2                         | T                  | PP, EP             |             |   | 0                           |            |
| 1831             | SULPHURIC ACID, FUMING  | 8        | CT1                 | I             | 8+6.1     | 802                | LQ0 E0                          | T                  | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1832             | SULPHURIC ACID, SPENT   | 8        | C1                  | II            | 8         | 113                | LQ22 E2                         | T                  | PP, EP             |             |   | 0                           |            |
| 1833             | SULPHUROUS ACID   | 8        | C1                  | II            | 8         |                    | LQ22 E2                         |                    | PP, EP             |             |   | 0                           |            |
| 1834             | SULPHURYL CHLORIDE  | 8        | C1                  | I             | 8         |                    | LQ0 E0                          |                    | PP, EP             |             |   | 0                           |            |
| 1835             | TETRAMETHYLAMMONIUM HYDROXIDE, SOLUTION                           | 8        | C7                  | II            | 8         |                    | LQ22 E2                         |                    | PP, EP             |             |   | 0                           |            |
| 1835             | TETRAMETHYLAMMONIUM HYDROXIDE                                     | 8        | C7                  | III           | 8         |                    | LQ7 E1                          |                    | PP, EP             |             |   | 0                           |            |
| 1836             | THIONYL CHLORIDE  | 8        | C1                  | I             | 8         |                    | LQ0 E0                          |                    | PP, EP             |             |   | 0                           |            |
| 1837             | THIOPHOSPHORYL CHLORIDE   | 8        | C1                  | II            | 8         |                    | LQ22 E2                         |                    | PP, EP             |             |   | 0                           |            |

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| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)                  | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 1838             | TITANIUM TETRACHLORIDE  | 8        | C1                  | II            | 8         |                          | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 1839             | TRICHLOROACETIC ACID  | 8        | C4                  | II            | 8         |                          | LQ23                            |                    | PP, EP             |             |   | 0                           |            |
| 1840             | ZINC CHLORIDE SOLUTION  | 8        | C1                  | III           | 8         |                          | LQ7                             |                    | PP, EP             |             |   | 0                           |            |
| 1841             | ACETALDEHYDE AMMONIA  | 9        | M11                 | III           | 9         |                          | LQ27                            |                    | PP                 |             |   | 0                           |            |
| 1843             | AMMONIUM DINITRO-o-CRESOLATE, SOLID   | 6.1      | T2                  | II            | 6.1       | 802                      | LQ18                            |                    | PP, EP             |             |   | 2                           |            |
| 1845             | Carbon dioxide, solid (Dry ice)   | 9        | M11                 |               |           |                          |                                 |                    |                    |             |   |                             |            |
| 1846             | CARBON TETRACHLORIDE  | 6.1      | T1                  | II            | 6.1       | 802                      | LQ17                            | T                  | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1847             | POTASSIUM SULPHIDE, HYDRATED with not less than 30% water of crystallization    | 8        | C6                  | II            | 8         | 523                      | LQ23                            |                    | PP, EP             |             |   | 0                           |            |
| 1848             | PROPIONIC ACID with not less than 10% and less than 90% acid by mass            | 8        | C3                  | III           | 8         |                          | LQ7                             | T                  | PP, EP             |             |   | 0                           |            |
| 1849             | SODIUM SULPHIDE, HYDRATED with not less than 30% water                          | 8        | C6                  | II            | 8         | 523                      | LQ23                            |                    | PP, EP             |             |   | 0                           |            |
| 1851             | MEDICINE, LIQUID, TOXIC, N.O.S.   | 6.1      | T1                  | II            | 6.1       | 221<br>274<br>601<br>802 | LQ17                            |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1851             | MEDICINE, LIQUID, TOXIC, N.O.S.   | 6.1      | T1                  | III           | 6.1       | 221<br>274<br>601<br>802 | LQ7                             |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 1854             | BARIUM ALLOYS, PYROPHORIC   | 4.2      | S4                  | I             | 4.2       |                          | LQ0                             |                    | PP                 |             |   | 0                           |            |
| 1855             | CALCIUM, PYROPHORIC or CALCIUM ALLOYS, PYROPHORIC                               | 4.2      | S4                  | I             | 4.2       |                          | LQ0                             |                    | PP                 |             |   | 0                           |            |
| 1856             | Resins, oily  | 4.2      | S2                  |               |           |                          |                                 |                    |                    |             |   |                             |            |
| 1857             | Textile waste, wet  | 4.2      | S2                  |               |           |                          |                                 |                    |                    |             |   |                             |            |
| 1858             | HEXAFLUOROPROPYLENE (REFRIGERANT GAS R 1216)                                    | 2        | 2A                  |               | 2.2       |                          | LQ1                             | E1                 | PP                 |             |   | 0                           |            |
| 1859             | SILICON TETRAFLUORIDE   | 2        | 2TC                 |               | 2.3+8     |                          | LQ0                             | E0                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1860             | VINYL FLUORIDE, STABILIZED  | 2        | 2F                  |               | 2.1       |                          | LQ0                             | E0                 | PP, EX, A          | VE01        |   | 1                           |            |
| 1862             | ETHYL CROTONATE   | 3        | F1                  | II            | 3         |                          | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 1863             | FUEL, AVIATION, TURBINE ENGINE  | 3        | F1                  | I             | 3         |                          | LQ3                             | E3                 | PP, EX, A          | VE01        |   | 1                           |            |
| 1863             | FUEL, AVIATION, TURBINE ENGINE (vapour pressure at 50 °C more than 110 kPa)     | 3        | F1                  | II            | 3         | 640C                     | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 1863             | FUEL, AVIATION, TURBINE ENGINE (vapour pressure at 50 °C not more than 110 kPa) | 3        | F1                  | II            | 3         | 640D                     | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 1863             | FUEL, AVIATION, TURBINE ENGINE  | 3        | F1                  | III           | 3         |                          | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |            |
| 1865             | n-PROPYL NITRATE  | 3        | F1                  | II            | 3         |                          | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 1866             | RESIN SOLUTION, flammable   | 3        | F1                  | I             | 3         |                          | LQ3                             | E3                 | PP, EX, A          | VE01        |   | 1                           |            |

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| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 1866             | RESIN SOLUTION, flammable (vapour pressure at 50 °C more than 110 kPa)   | 3        | F1                  | II            | 3         | 640C               | LQ6                             |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1866             | RESIN SOLUTION, flammable (vapour pressure at 50 °C not more than 110 kPa)   | 3        | F1                  | II            | 3         | 640D               | LQ6                             |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 1866             | RESIN SOLUTION, flammable  | 3        | F1                  | III           | 3         | 640E               | LQ7                             |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1866             | RESIN SOLUTION, flammable (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (boiling point not more than 35 °C)  | 3        | F1                  | III           | 3         | 640F               | LQ7                             |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1866             | RESIN SOLUTION, flammable (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C more than 110 kPa, boiling point of more than 35 °C) | 3        | F1                  | III           | 3         | 640G               | LQ7                             |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1866             | RESIN SOLUTION, flammable (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C not more than 110 kPa)                               | 3        | F1                  | III           | 3         | 640H               | LQ7                             |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1868             | DECABORANE   | 4.1      | FT2                 | II            | 4.1+6.1   | 802                | LQ0                             |                    | PP                 |             |   | 2                           |            |
| 1869             | MAGNESIUM or MAGNESIUM ALLOYS with more than 50% magnesium in pellets, turnings or ribbons   | 4.1      | F3                  | III           | 4.1       | 59                 | LQ9                             |                    | PP                 |             |   | 0                           |            |
| 1870             | POTASSIUM BOROHYDRIDE  | 4.3      | W2                  | I             | 4.3       |                    | LQ0                             |                    | PP, EX, A          | VE01        | HA08  | 0                           |            |
| 1871             | TITANIUM HYDRIDE   | 4.1      | F3                  | II            | 4.1       |                    | LQ8                             |                    | PP                 |             |   | 1                           |            |
| 1872             | LEAD DIOXIDE   | 5.1      | OT2                 | III           | 5.1+6.1   | 802                | LQ12                            |                    | PP                 |             |   | 0                           |            |
| 1873             | PERCHLORIC ACID with more than 50% but not more than 72% acid, by mass   | 5.1      | OC1                 | I             | 5.1+8     | 60                 | LQ0                             |                    | PP, EP             |             |   | 0                           |            |
| 1884             | BARIUM OXIDE   | 6.1      | T5                  | III           | 6.1       | 802                | LQ9                             |                    | PP, EP             |             |   | 0                           |            |
| 1885             | BENZIDINE  | 6.1      | T2                  | II            | 6.1       | 802                | LQ18                            |                    | PP, EP             |             |   | 2                           |            |
| 1886             | BENZYLIDENE CHLORIDE   | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1887             | BROMOCHLOROMETHANE   | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 1888             | CHLOROFORM   | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 1889             | CYANOGEN BROMIDE   | 6.1      | TC2                 | I             | 6.1+8     | 802                | LQ0                             |                    | PP, EP             |             |   | 2                           |            |
| 1891             | ETHYL BROMIDE  | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1892             | ETHYLCHLOROARSINE  | 6.1      | T3                  | I             | 6.1       | 802                | LQ0                             |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1894             | PHENYLMERCURIC HYDROXIDE   | 6.1      | T3                  | II            | 6.1       | 802                | LQ18                            |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1895             | PHENYLMERCURIC NITRATE   | 6.1      | T3                  | II            | 6.1       | 802                | LQ18                            |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1897             | TETRACHLOROETHYLENE  | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 1898             | ACETYL IODIDE  | 8        | C3                  | II            | 8         |                    | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 1902             | DIISOCTYL ACID PHOSPHATE   | 8        | C3                  | III           | 8         |                    | LQ7                             |                    | PP, EP             |             |   | 0                           |            |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)                                      | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a) 3.5.1.2 (7b)         | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 1903             | DISINFECTANT, LIQUID, CORROSIVE, N.O.S.        | 8        | C9                  | I             | 8         | 274                | LQ0 E0                          |                    | PP, EP             |             |   | 0                           |            |
| 1903             | DISINFECTANT, LIQUID, CORROSIVE, N.O.S.        | 8        | C9                  | II            | 8         | 274                | LQ22 E2                         |                    | PP, EP             |             |   | 0                           |            |
| 1903             | DISINFECTANT, LIQUID, CORROSIVE, N.O.S.        | 8        | C9                  | III           | 8         | 274                | LQ7 E1                          |                    | PP, EP             |             |   | 0                           |            |
| 1905             | SELENIC ACID                                   | 8        | C2                  | I             | 8         |                    | LQ0 E0                          |                    | PP, EP             |             |   | 0                           |            |
| 1906             | SLUDGE ACID                                    | 8        | C1                  | II            | 8         |                    | LQ22 E2                         |                    | PP, EP             |             |   | 0                           |            |
| 1907             | SODA LIME with more than 4% sodium hydroxide   | 8        | C6                  | III           | 8         | 62                 | LQ24 E1                         |                    | PP, EP             |             |   | 0                           |            |
| 1908             | CHLORITE SOLUTION                              | 8        | C9                  | II            | 8         | 521                | LQ22 E2                         |                    | PP, EP             |             |   | 0                           |            |
| 1908             | CHLORITE SOLUTION                              | 8        | C9                  | III           | 8         | 521                | LQ7 E1                          |                    | PP, EP             |             |   | 0                           |            |
| 1910             | Calcium oxide                                  | 8        | C6                  |               |           |                    |                                 |                    |                    |             |   |                             |            |
| 1911             | DIBORANE                                       | 2        | 2TF                 |               | 2.3+2.1   |                    | LQ0 E0                          |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 1912             | METHYL CHLORIDE AND METHYLENE CHLORIDE MIXTURE | 2        | 2F                  |               | 2.1       | 228                | LQ0 E0                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1913             | NEON, REFRIGERATED LIQUID                      | 2        | 3A                  |               | 2.2       | 593                | LQ1 E1                          |                    | PP                 |             |   | 0                           |            |
| 1914             | BUTYL PROPIONATES                              | 3        | F1                  | III           | 3         |                    | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1915             | CYCLOHEXANONE                                  | 3        | F1                  | III           | 3         |                    | LQ7 E1                          | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 1916             | 2,2-DICHLORODIETHYL ETHER                      | 6.1      | TF1                 | II            | 6.1+3     | 802                | LQ17 E4                         |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 1917             | ETHYL ACRYLATE, STABILIZED                     | 3        | F1                  | II            | 3         |                    | LQ4 E2                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1918             | ISOPROPYL BENZENE                              | 3        | F1                  | III           | 3         |                    | LQ7 E1                          | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 1919             | METHYL ACRYLATE, STABILIZED                    | 3        | F1                  | II            | 3         |                    | LQ4 E2                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1920             | NONANES  | 3        | F1                  | III           | 3         |                    | LQ7 E1                          | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 1921             | PROPYLENEIMINE, STABILIZED                     | 3        | FT1                 | I             | 3+6.1     | 802                | LQ0 E0                          |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 1922             | PYRROLIDINE                                    | 3        | FC                  | II            | 3+8       |                    | LQ4 E2                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 1923             | CALCIUM DITHIONITE (CALCIUM HYDROSULPHITE)     | 4.2      | S4                  | II            | 4.2       |                    | LQ0 E2                          |                    | PP                 |             |   | 0                           |            |
| 1928             | METHYL MAGNESIUM BROMIDE IN ETHYL ETHER        | 4.3      | WF1                 | I             | 4.3+3     |                    | LQ0 E0                          |                    | PP, EX, A          | VE01        | HA08  | 1                           |            |
| 1929             | POTASSIUM DITHIONITE (POTASSIUM HYDROSULPHITE) | 4.2      | S4                  | II            | 4.2       |                    | LQ0 E2                          |                    | PP                 |             |   | 0                           |            |
| 1931             | ZINC DITHIONITE (ZINC HYDROSULPHITE)           | 9        | M11                 | III           | 9         |                    | LQ27 E1                         |                    | PP                 |             |   | 0                           |            |
| 1932             | ZIRCONIUM SCRAP                                | 4.2      | S4                  | III           | 4.2       | 524 592            | LQ0 E1                          |                    | PP                 |             |   | 0                           |            |
| 1935             | CYANIDE SOLUTION, N.O.S.                       | 6.1      | T4                  | I             | 6.1       | 274 525 802        | LQ0 E5                          |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 1935             | CYANIDE SOLUTION, N.O.S.                       | 6.1      | T4                  | II            | 6.1       | 274 525 802        | LQ17 E4                         |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |



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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|------------------------|---|-----------------------------|--|
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)             | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13)   |
| 1935             | CYANIDE SOLUTION, N.O.S.   | 6.1      | T4                  | III           | 6.1       | 274<br>525<br>802  | LQ7                             |                    | PP, EP, TOX, A     | VE02                   |   | 0                           |  |
| 1938             | BROMOACETIC ACID, SOLUTION   | 8        | C3                  | II            | 8         | 802                | LQ22                            |                    | PP, EP             |                        |   | 0                           |  |
| 1938             | BROMOACETIC ACID, SOLUTION   | 8        | C3                  | III           | 8         |                    | LQ7                             |                    | PP, EP             |                        |   | 0                           |  |
| 1939             | PHOSPHORUS OXYBROMIDE  | 8        | C2                  | II            | 8         |                    | LQ23                            |                    | PP, EP             |                        |   | 0                           |  |
| 1940             | THIOGLYCOLIC ACID  | 8        | C3                  | II            | 8         |                    | LQ22                            |                    | PP, EP             |                        |   | 0                           |  |
| 1941             | DIBROMODIFLUOROMETHANE   | 9        | M11                 | III           | 9         |                    | LQ28                            |                    | PP                 |                        |   | 0                           |  |
| 1942             | AMMONIUM NITRATE with not more than 0.2% total combustible material, including any organic substance calculated as carbon, to the exclusion of any other added substance | 5.1      | O2                  | III           | 5.1       | 306<br>611         | LQ12                            | <b>B</b>           | PP                 |                        | ST01, HA09<br>CO02                                    | 0                           | CO02 and HA09 apply only when this substance is carried in bulk or without packaging |
| 1944             | MATCHES, SAFETY (book, card or strike on box)  | 4.1      | F1                  | III           | 4.1       | 293                | LQ9                             |                    | PP                 |                        |   | 0                           |  |
| 1945             | MATCHES, WAX VESTA'  | 4.1      | F1                  | III           | 4.1       | 293                | LQ9                             |                    | PP                 |                        |   | 0                           |  |
| 1950             | AEROSOLS, asphyxiant   | 2        | 5A                  |               | 2.2       | 190<br>327<br>625  | LQ2                             |                    | PP                 | VE04                   |   | 0                           |  |
| 1950             | AEROSOLS, corrosive  | 2        | 5C                  |               | 2.2+8     | 190<br>327<br>625  | LQ2                             |                    | PP, EP             | VE04                   |   | 0                           |  |
| 1950             | AEROSOLS, corrosive, oxidizing   | 2        | 5CO                 |               | 2.2+5.1+8 | 190<br>327<br>625  | LQ2                             |                    | PP, EP             | VE04                   |   | 0                           |  |
| 1950             | AEROSOLS, flammable  | 2        | 5F                  |               | 2.1       | 190<br>327<br>625  | LQ2                             |                    | PP, EX, A          | VE01,<br>VE04          |   | 1                           |  |
| 1950             | AEROSOLS, flammable, corrosive   | 2        | 5FC                 |               | 2.1+8     | 190<br>327<br>625  | LQ2                             |                    | PP, EX, A          | VE01,<br>VE04          |   | 1                           |  |
| 1950             | AEROSOLS, oxidizing  | 2        | 5O                  |               | 2.2+5.1   | 190<br>327<br>625  | LQ2                             |                    | PP                 | VE04                   |   | 0                           |  |
| 1950             | AEROSOLS, toxic  | 2        | 5T                  |               | 2.2+6.1   | 190<br>327<br>625  | LQ1                             |                    | PP, EP, TOX, A     | VE02,<br>VE04          |   | 2                           |  |
| 1950             | AEROSOLS, toxic, corrosive   | 2        | 5TC                 |               | 2.2+6.1+8 | 190<br>327<br>625  | LQ1                             |                    | PP, EP, TOX, A     | VE02,<br>VE04          |   | 2                           |  |
| 1950             | AEROSOLS, toxic, flammable   | 2        | 5TF                 |               | 2.1+6.1   | 190<br>327<br>625  | LQ1                             |                    | PP, EP, EX, TOX, A | VE01,<br>VE02,<br>VE04 |   | 2                           |  |
| 1950             | AEROSOLS, toxic, flammable, corrosive  | 2        | 5TFC                |               | 2.1+6.1+8 | 190<br>327<br>625  | LQ1                             |                    | PP, EP, EX, TOX, A | VE01,<br>VE02,<br>VE04 |   | 2                           |  |

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|------------------|---|----------|---------------------|---------------|---------------|--------------------|---------------------------------|--------------------|--------------------|---------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5)     | 3.3 (6)            | 3.4.6 (7a) 3.5.1.2 (7b)         | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)    | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 1950             | AEROSOLS, toxic, oxidizing  | 2        | 5TO                 |               | 2.2+5.1+6.1   | 190<br>327<br>625  | LQ1<br>E0                       |                    | PP, EP, TOX, A     | VE02,<br>VE04 |   | 2                           |            |
| 1950             | AEROSOLS, toxic, oxidizing, corrosive   | 2        | 5TOC                |               | 2.2+5.1+6.1+8 | 190<br>327<br>625  | LQ1<br>E0                       |                    | PP, EP, TOX, A     | VE02,<br>VE04 |   | 2                           |            |
| 1951             | ARGON, REFRIGERATED LIQUID  | 2        | 3A                  |               | 2.2           | 593                | LQ1<br>E1                       |                    | PP                 |               |   | 0                           |            |
| 1952             | ETHYLENE OXIDE AND CARBON DIOXIDE MIXTURE with not more than 9% ethylene oxide                  | 2        | 2A                  |               | 2.2           |                    | LQ1<br>E1                       |                    | PP                 |               |   | 0                           |            |
| 1953             | COMPRESSED GAS, TOXIC, FLAMMABLE, N.O.S.  | 2        | 1TF                 |               | 2.3+2.1       | 274                | LQ0<br>E0                       |                    | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 2                           |            |
| 1954             | COMPRESSED GAS, FLAMMABLE, N.O.S.   | 2        | 1F                  |               | 2.1           | 274                | LQ0<br>E0                       |                    | PP, EX, A          | VE01          |   | 1                           |            |
| 1955             | COMPRESSED GAS, TOXIC, N.O.S.   | 2        | 1T                  |               | 2.3           | 274                | LQ0<br>E0                       |                    | PP, EP, TOX, A     | VE02          |   | 2                           |            |
| 1956             | COMPRESSED GAS, N.O.S.  | 2        | 1A                  |               | 2.2           | 274<br>292<br>567  | LQ1<br>E1                       |                    | PP                 |               |   | 0                           |            |
| 1957             | DEUTERIUM, COMPRESSED   | 2        | 1F                  |               | 2.1           |                    | LQ0<br>E0                       |                    | PP, EX, A          | VE01          |   | 1                           |            |
| 1958             | 1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE (REFRIGERANT GAS R 114)                                  | 2        | 2A                  |               | 2.2           |                    | LQ1<br>E1                       |                    | PP                 |               |   | 0                           |            |
| 1959             | 1,1-DIFLUOROETHYLENE (REFRIGERANT GAS R 1132a)  | 2        | 2F                  |               | 2.1           |                    | LQ0<br>E0                       |                    | PP, EX, A          | VE01          |   | 1                           |            |
| 1961             | ETHANE, REFRIGERATED LIQUID   | 2        | 3F                  |               | 2.1           |                    | LQ0<br>E0                       |                    | PP, EX, A          | VE01          |   | 1                           |            |
| 1962             | ETHYLENE  | 2        | 2F                  |               | 2.1           |                    | LQ0<br>E0                       |                    | PP, EX, A          | VE01          |   | 1                           |            |
| 1963             | HELIUM, REFRIGERATED LIQUID   | 2        | 3A                  |               | 2.2           | 593                | LQ1<br>E1                       |                    | PP                 |               |   | 0                           |            |
| 1964             | HYDROCARBON GAS MIXTURE, COMPRESSED, N.O.S.   | 2        | 1F                  |               | 2.1           | 274                | LQ0<br>E0                       |                    | PP, EX, A          | VE01          |   | 1                           |            |
| 1965             | HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S. such as mixtures A, A01, A02, A0, A1, B1, B2, B or C | 2        | 2F                  |               | 2.1           | 274<br>583         | LQ0<br>E0                       | T                  | PP, EX, A          | VE01          |   | 1                           |            |
| 1966             | HYDROGEN, REFRIGERATED LIQUID   | 2        | 3F                  |               | 2.1           |                    | LQ0<br>E0                       |                    | PP, EX, A          | VE01          |   | 1                           |            |
| 1967             | INSECTICIDE GAS, TOXIC, N.O.S.  | 2        | 2T                  |               | 2.3           | 274                | LQ0<br>E0                       |                    | PP, EP, TOX, A     | VE02          |   | 2                           |            |
| 1968             | INSECTICIDE GAS, N.O.S.   | 2        | 2A                  |               | 2.2           | 274                | LQ1<br>E1                       |                    | PP                 |               |   | 0                           |            |
| 1969             | ISOBUTANE   | 2        | 2F                  |               | 2.1           |                    | LQ0<br>E0                       | T                  | PP, EX, A          | VE01          |   | 1                           |            |
| 1970             | KRYPTON, REFRIGERATED LIQUID  | 2        | 3A                  |               | 2.2           | 593                | LQ1<br>E1                       |                    | PP                 |               |   | 0                           |            |
| 1971             | METHANE, COMPRESSED or NATURAL GAS, COMPRESSED with high methane content                        | 2        | 1F                  |               | 2.1           |                    | LQ0<br>E0                       |                    | PP, EX, A          | VE01          |   | 1                           |            |
| 1972             | METHANE, REFRIGERATED LIQUID or NATURAL GAS, REFRIGERATED LIQUID with high methane content      | 2        | 3F                  |               | 2.1           |                    | LQ0<br>E0                       |                    | PP, EX, A          | VE01          |   | 1                           |            |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|---------------|---|------------|-----------------------------|---------|
|                  |  |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |               | 7.1.6 (10)  | 7.1.6 (11) |                             |         |
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)    | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 1973             | CHLORODIFLUOROMETHANE AND CHLOROPENTAFLUOROETHANE MIXTURE with fixed boiling point, with approximately 49% chlorodifluoromethane (REFRIGERANT GAS R-502) | 2        | 2A                  |               | 2.2       |                    | LQ1                             | E1           |                    | PP                 |               |   | 0          |                             |         |
| 1974             | CHLORODIFLUOROBROMOMETHANE (REFRIGERANT GAS R 12B1)  | 2        | 2A                  |               | 2.2       |                    | LQ1                             | E1           |                    | PP                 |               |   | 0          |                             |         |
| 1975             | NITRIC OXIDE AND DINITROGEN TETROXIDE MIXTURE (NITRIC OXIDE AND NITROGEN DIOXIDE MIXTURE)  | 2        | 2TOC                |               | 2.3+5.1+8 |                    | LQ0                             | E0           |                    | PP, EP, TOX, A     | VE02          |   | 2          |                             |         |
| 1976             | OCTAFLUOROCYCLOBUTANE (REFRIGERANT GAS RC 318)   | 2        | 2A                  |               | 2.2       |                    | LQ1                             | E1           |                    | PP                 |               |   | 0          |                             |         |
| 1977             | NITROGEN, REFRIGERATED LIQUID  | 2        | 3A                  |               | 2.2       | 593                | LQ1                             | E1           |                    | PP                 |               |   | 0          |                             |         |
| 1978             | PROPANE  | 2        | 2F                  |               | 2.1       |                    | LQ0                             | E0           | T                  | PP, EX, A          | VE01          |   | 1          |                             |         |
| 1982             | TETRAFLUOROMETHANE (REFRIGERANT GAS R 14)  | 2        | 2A                  |               | 2.2       |                    | LQ1                             | E1           |                    | PP                 |               |   | 0          |                             |         |
| 1983             | 1-CHLORO-2,2-TRIFLUOROETHANE (REFRIGERANT GAS R 133a)  | 2        | 2A                  |               | 2.2       |                    | LQ1                             | E1           |                    | PP                 |               |   | 0          |                             |         |
| 1984             | TRIFLUOROMETHANE (REFRIGERANT GAS R 23)  | 2        | 2A                  |               | 2.2       |                    | LQ1                             | E1           |                    | PP                 |               |   | 0          |                             |         |
| 1986             | ALCOHOLS, FLAMMABLE, TOXIC, N.O.S.   | 3        | FT1                 | I             | 3+6.1     | 274<br>802         | LQ0                             | E0           | T                  | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 2          |                             |         |
| 1986             | ALCOHOLS, FLAMMABLE, TOXIC, N.O.S.   | 3        | FT1                 | II            | 3+6.1     | 274<br>802         | LQ0                             | E2           | T                  | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 2          |                             |         |
| 1986             | ALCOHOLS, FLAMMABLE, TOXIC, N.O.S.   | 3        | FT1                 | III           | 3+6.1     | 274<br>802         | LQ7                             | E1           | T                  | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 0          |                             |         |
| 1987             | ALCOHOLS, N.O.S. (vapour pressure at 50 °C more than 110 kPa)  | 3        | F1                  | II            | 3         | 601<br>640C        | LQ4                             | E2           | T                  | PP, EX, A          | VE01          |   | 1          |                             |         |
| 1987             | ALCOHOLS, N.O.S.   | 3        | F1                  | III           | 3         | 274<br>601<br>640D | LQ7                             | E1           | T                  | PP, EX, A          | VE01          |   | 0          |                             |         |
| 1988             | ALDEHYDES, FLAMMABLE, TOXIC, N.O.S.  | 3        | FT1                 | I             | 3+6.1     | 274<br>802         | LQ0                             | E0           |                    | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 2          |                             |         |
| 1988             | ALDEHYDES, FLAMMABLE, TOXIC, N.O.S.  | 3        | FT1                 | II            | 3+6.1     | 274<br>802         | LQ0                             | E2           |                    | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 2          |                             |         |
| 1988             | ALDEHYDES, FLAMMABLE, TOXIC, N.O.S.  | 3        | FT1                 | III           | 3+6.1     | 274<br>802         | LQ7                             | E1           |                    | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 0          |                             |         |
| 1989             | ALDEHYDES, N.O.S.  | 3        | F1                  | I             | 3         | 274                | LQ3                             | E3           |                    | PP, EX, A          | VE01          |   | 1          |                             |         |
| 1989             | ALDEHYDES, N.O.S. (vapour pressure at 50 °C more than 110 kPa)   | 3        | F1                  | II            | 3         | 274<br>640C        | LQ4                             | E2           | T                  | PP, EX, A          | VE01          |   | 1          |                             |         |
| 1989             | ALDEHYDES, N.O.S. (vapour pressure at 50 °C not more than 110 kPa)   | 3        | F1                  | II            | 3         | 274<br>640D        | LQ4                             | E2           | T                  | PP, EX, A          | VE01          |   | 1          |                             |         |
| 1989             | ALDEHYDES, N.O.S.  | 3        | F1                  | III           | 3         | 274                | LQ7                             | E1           | T                  | PP, EX, A          | VE01          |   | 0          |                             |         |

| UN No. or ID No. | Name and description   | Class    | Classification Code | Packing group | Labels    | Special provisions | Limited and excepted quantities |              | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage |            | Number of blue cones/lights | Remarks |
|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |  |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (11)  | 7.1.5 (12) |                             |         |
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 1990             | BENZALDEHYDE   | 9        | M11                 | III           | 9         |                    | LQ28                            | E1           |                    | PP                 |             |   | 0          |                             |         |
| 1991             | CHLOROPRENE, STABILIZED  | 3        | FT1                 | I             | 3+6.1     | 802                | LQ0                             | E0           | T                  | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 1992             | FLAMMABLE LIQUID, TOXIC, N.O.S.  | 3        | FT1                 | I             | 3+6.1     | 274                | LQ0                             | E0           | T                  | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 1992             | FLAMMABLE LIQUID, TOXIC, N.O.S.  | 3        | FT1                 | II            | 3+6.1     | 274                | LQ0                             | E2           | T                  | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 1992             | FLAMMABLE LIQUID, TOXIC, N.O.S.  | 3        | FT1                 | III           | 3+6.1     | 274                | LQ7                             | E1           | T                  | PP, EP, EX, TOX, A | VE01, VE02  |   | 0          |                             |         |
| 1993             | FLAMMABLE LIQUID, N.O.S.   | 3        | F1                  | I             | 3         | 274                | LQ3                             | E3           | T                  | PP, EX, A          | VE01        |   | 1          |                             |         |
| 1993             | FLAMMABLE LIQUID, N.O.S. (vapour pressure at 50 °C more than 110 kPa)  | 3        | F1                  | II            | 3         | 274                | LQ4                             | E2           | T                  | PP, EX, A          | VE01        |   | 1          |                             |         |
| 1993             | FLAMMABLE LIQUID, N.O.S. (vapour pressure at 50 °C not more than 110 kPa)  | 3        | F1                  | II            | 3         | 274                | LQ4                             | E2           | T                  | PP, EX, A          | VE01        |   | 1          |                             |         |
| 1993             | FLAMMABLE LIQUID, N.O.S.   | 3        | F1                  | III           | 3         | 274                | LQ7                             | E1           | T                  | PP, EX, A          | VE01        |   | 0          |                             |         |
| 1993             | FLAMMABLE LIQUID, N.O.S. (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (boiling point not more than 35° C)   | 3        | F1                  | III           | 3         | 274                | LQ7                             | E1           | T                  | PP, EX, A          | VE01        |   | 0          |                             |         |
| 1993             | FLAMMABLE LIQUID, N.O.S. (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C more than 110 kPa, boiling point of more than 35° C)  | 3        | F1                  | III           | 3         | 274                | LQ7                             | E1           | T                  | PP, EX, A          | VE01        |   | 0          |                             |         |
| 1993             | FLAMMABLE LIQUID, N.O.S. (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C not more than 110 kPa)                                | 3        | F1                  | III           | 3         | 274                | LQ7                             | E1           | T                  | PP, EX, A          | VE01        |   | 0          |                             |         |
| 1994             | IRON PENTACARBONYL   | 6.1      | TF1                 | I             | 6.1+3     | 802                | LQ0                             | E5           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 1999             | TARS, LIQUID, including road asphalt and oils, bitumen and cut backs (vapour pressure at 50 °C more than 110 kPa)  | 3        | F1                  | II            | 3         | 640C               | LQ6                             | E2           |                    | PP, EX, A          | VE01        |   | 1          |                             |         |
| 1999             | TARS, LIQUID, including road asphalt and oils, bitumen and cut backs (vapour pressure at 50 °C not more than 110 kPa)  | 3        | F1                  | II            | 3         | 640D               | LQ6                             | E2           |                    | PP, EX, A          | VE01        |   | 1          |                             |         |
| 1999             | TARS, LIQUID, including road asphalt and oils, bitumen and cut backs   | 3        | F1                  | III           | 3         | 640E               | LQ7                             | E1           | T                  | PP, EX, A          | VE01        |   | 0          |                             |         |
| 1999             | TARS, LIQUID, including road asphalt and oils, bitumen and cut backs (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (boiling point not more than 35° C) | 3        | F1                  | III           | 3         | 640F               | LQ7                             | E1           |                    | PP, EX, A          | VE01        |   | 0          |                             |         |

| UN No. or ID No. | Name and description  | Class    | Classification Code | Packing group | Labels    | Special provisions | Limited and excepted quantities | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage | Number of blue cones/lights | Remarks    |
|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a) 3.5.1.2 (7b)         | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 1999             | TARS, LIQUID, including road asphalt and oils, bitumen and cut backs (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C more than 110 kPa, boiling point of more than 35° C) | 3        | F1                  | III           | 3         | 640G               | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 1999             | TARS, LIQUID, including road asphalt and oils, bitumen and cut backs (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C not more than 110 kPa)                               | 3        | F1                  | III           | 3         | 640H               | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 2000             | CELLULOSE in block, rods, rolls, sheets, tubes, etc., except scrap  | 4.1      | F1                  | III           | 4.1       | 502                | LQ9 E1                          |                    | PP                 |             |   | 0                           |            |
| 2001             | COBALT NAPHTHENATES, POWDER   | 4.1      | F3                  | III           | 4.1       |                    | LQ9 E1                          |                    | PP                 |             |   | 0                           |            |
| 2002             | CELLULOSE, SCRAP  | 4.2      | S2                  | III           | 4.2       | 526 592            | LQ0 E1                          |                    | PP                 |             |   | 0                           |            |
| 2004             | MAGNESIUM DIAMIDE   | 4.2      | S4                  | II            | 4.2       |                    | LQ0 E2                          |                    | PP                 |             |   | 0                           |            |
| 2006             | PLASTICS, NITROCELLULOSE-BASED, SELF-HEATING, N.O.S.  | 4.2      | S2                  | III           | 4.2       | 274 528            | LQ0 E1                          |                    | PP                 |             |   | 0                           |            |
| 2008             | ZIRCONIUM POWDER, DRY   | 4.2      | S4                  | I             | 4.2       | 524 540            | LQ0 E0                          |                    | PP                 |             |   | 0                           |            |
| 2008             | ZIRCONIUM POWDER, DRY   | 4.2      | S4                  | II            | 4.2       | 524 540            | LQ0 E2                          |                    | PP                 |             |   | 0                           |            |
| 2008             | ZIRCONIUM POWDER, DRY   | 4.2      | S4                  | III           | 4.2       | 524 540            | LQ0 E1                          |                    | PP                 |             |   | 0                           |            |
| 2009             | ZIRCONIUM, DRY, finished sheets, strip or coiled wire   | 4.2      | S4                  | III           | 4.2       | 524 592            | LQ0 E1                          |                    | PP                 |             |   | 0                           |            |
| 2010             | MAGNESIUM HYDRIDE   | 4.3      | W2                  | I             | 4.3       |                    | LQ0 E0                          |                    | PP, EX, A          | VE01        | HA08  | 0                           |            |
| 2011             | MAGNESIUM PHOSPHIDE   | 4.3      | WT2                 | I             | 4.3+6.1   | 802                | LQ0 E0                          |                    | PP, EP, EX, TOX, A | VE01, VE02  | HA08  | 2                           |            |
| 2012             | POTASSIUM PHOSPHIDE   | 4.3      | WT2                 | I             | 4.3+6.1   | 802                | LQ0 E0                          |                    | PP, EP, EX, TOX, A | VE01, VE02  | HA08  | 2                           |            |
| 2013             | STRONTIUM PHOSPHIDE   | 4.3      | WT2                 | I             | 4.3+6.1   | 802                | LQ0 E0                          |                    | PP, EP, EX, TOX, A | VE01, VE02  | HA08  | 2                           |            |
| 2014             | HYDROGEN PEROXIDE, AQUEOUS SOLUTION with not less than 20% but not more than 60% hydrogen peroxide (stabilized as necessary)  | 5.1      | OC1                 | II            | 5.1+8     |                    | LQ10 E2                         | T                  | PP, EP             |             |   | 0                           |            |
| 2015             | HYDROGEN PEROXIDE, AQUEOUS SOLUTION, STABILIZED with more than 70% hydrogen peroxide  | 5.1      | OC1                 | I             | 5.1+8     | 640N               | LQ0 E0                          |                    | PP, EP             |             |   | 0                           |            |
| 2015             | HYDROGEN PEROXIDE, AQUEOUS SOLUTION, STABILIZED with more than 60% hydrogen peroxide and not more than 70% hydrogen peroxide  | 5.1      | OC1                 | I             | 5.1+8     | 640O               | LQ0 E0                          |                    | PP, EP             |             |   | 0                           |            |
| 2016             | AMMUNITION, TOXIC, NON-EXPLOSIVE without burster or expelling charge, non-fuzed   | 6.1      | T2                  | II            | 6.1       | 802                | LQ0 E0                          |                    | PP, EP             |             |   | 2                           |            |

| UN No. or ID No. | Name and description   | Class    | Classification Code | Packing group | Labels    | Special provisions | Limited and excepted quantities | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage | Number of blue cones/lights | Remarks    |
|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 2017             | AMMUNITION, TEAR-PRODUCING, NON-EXPLOSIVE without burster or expelling charge, non-fuzed | 6.1      | TC2                 | II            | 6.1+8     | 802                | LQ0                             | E0                 | PP, EP             |             |   | 2                           |            |
| 2018             | CHLOROANILINES, SOLID  | 6.1      | T2                  | II            | 6.1       | 802                | LQ18                            | E4                 | PP, EP             |             |   | 2                           |            |
| 2019             | CHLOROANILINES, LIQUID   | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2020             | CHLOROPHENOLS, SOLID   | 6.1      | T2                  | III           | 6.1       | 205                | LQ9                             | E1                 | PP, EP             |             |   | 0                           |            |
| 2021             | CHLOROPHENOLS, LIQUID  | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1                 | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2022             | CRESYLIC ACID  | 6.1      | TC1                 | II            | 6.1+8     | 802                | LQ17                            | E4                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2023             | EPICHLOROHYDRIN  | 6.1      | TF1                 | II            | 6.1+3     | 279                | LQ17                            | E4                 | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2024             | MERCURY COMPOUND, LIQUID, N.O.S.   | 6.1      | T4                  | I             | 6.1       | 43                 | LQ0                             | E5                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2024             | MERCURY COMPOUND, LIQUID, N.O.S.   | 6.1      | T4                  | II            | 6.1       | 274                | LQ17                            | E4                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2024             | MERCURY COMPOUND, LIQUID, N.O.S.   | 6.1      | T4                  | III           | 6.1       | 802                | LQ7                             | E1                 | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2025             | MERCURY COMPOUND, SOLID, N.O.S.  | 6.1      | T5                  | I             | 6.1       | 43                 | LQ0                             | E5                 | PP, EP             |             |   | 2                           |            |
| 2025             | MERCURY COMPOUND, SOLID, N.O.S.  | 6.1      | T5                  | II            | 6.1       | 274                | LQ18                            | E4                 | PP, EP             |             |   | 2                           |            |
| 2025             | MERCURY COMPOUND, SOLID, N.O.S.  | 6.1      | T5                  | III           | 6.1       | 274                | LQ9                             | E1                 | PP, EP             |             |   | 0                           |            |
| 2025             | MERCURY COMPOUND, SOLID, N.O.S.  | 6.1      | T5                  |               |           | 529                |                                 |                    |                    |             |   |                             |            |
| 2025             | MERCURY COMPOUND, SOLID, N.O.S.  | 6.1      | T5                  |               |           | 585                |                                 |                    |                    |             |   |                             |            |
| 2025             | MERCURY COMPOUND, SOLID, N.O.S.  | 6.1      | T5                  |               |           | 802                |                                 |                    |                    |             |   |                             |            |
| 2026             | PHENYL MERCURIC COMPOUND, N.O.S.   | 6.1      | T3                  | I             | 6.1       | 43                 | LQ0                             | E5                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2026             | PHENYL MERCURIC COMPOUND, N.O.S.   | 6.1      | T3                  | II            | 6.1       | 274                | LQ18                            | E4                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |

| UN No. or ID No. | Name and description   | Class    | Classification Code | Packing group | Labels        | Special provisions | Limited and excepted quantities |              | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage |            | Number of blue cones/lights | Remarks |
|------------------|--|----------|---------------------|---------------|---------------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |  |          |                     |               |               |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (10)  | 7.1.6 (11) |                             |         |
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5)     | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 2026             | PHENYL MERCURIC COMPOUND, N.O.S.   | 6.1      | T3                  | III           | 6.1           | 43<br>274<br>802   | LQ9                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0          |                             |         |
| 2027             | SODIUM ARSENITE, SOLID   | 6.1      | T5                  | II            | 6.1           | 43<br>802          | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 2028             | BOMBS, SMOKE, NON-EXPLOSIVE with corrosive liquid, without initiating device                                 | 8        | C11                 | II            | 8             |                    | LQ0                             | E0           |                    | PP, EP             |             |   | 0          |                             |         |
| 2029             | HYDRAZINE, ANHYDROUS   | 8        | CFT                 | I             | 8+3+6.1       | 802                | LQ0                             | E0           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 2030             | HYDRAZINE AQUEOUS SOLUTION, with more than 37% hydrazine by mass, having a flash-point above 60 °C           | 8        | CT1                 | I             | 8+6.1         | 530<br>802         | LQ0                             | E0           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 2030             | HYDRAZINE AQUEOUS SOLUTION, with more than 37% hydrazine by mass having a flash-point of not more than 60 °C | 8        | CFT                 | I             | 8<br>3<br>6.1 | 530<br>802         | LQ0                             | E0           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 2030             | HYDRAZINE AQUEOUS SOLUTION, with more than 37% hydrazine by mass   | 8        | CT1                 | II            | 8+6.1         | 530<br>802         | LQ22                            | E2           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 2030             | HYDRAZINE AQUEOUS SOLUTION, with more than 37% hydrazine by mass   | 8        | CT1                 | III           | 8+6.1         | 530<br>802         | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0          |                             |         |
| 2031             | NITRIC ACID, other than red fuming, with more than 70% nitric acid   | 8        | CO1                 | I             | 8+5.1         |                    | LQ0                             | E0           | T                  | PP, EP             |             |   | 0          |                             |         |
| 2031             | NITRIC ACID, other than red fuming, with at least 65%, but not more than 70% nitric acid                     | 8        | CO1                 | II            | 8+5.1         |                    | LQ22                            | E2           | T                  | PP, EP             |             |   | 0          |                             |         |
| 2031             | NITRIC ACID, other than red fuming, with less than 65% nitric acid   | 8        | C1                  | II            | 8             |                    | LQ22                            | E2           | T                  | PP, EP             |             |   | 0          |                             |         |
| 2032             | NITRIC ACID, RED FUMING  | 8        | COT                 | I             | 8+5.1+6.1     | 802                | LQ0                             | E0           | T                  | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 2033             | POTASSIUM MONOXIDE   | 8        | C6                  | II            | 8             |                    | LQ23                            | E2           |                    | PP, EP             |             |   | 0          |                             |         |
| 2034             | HYDROGEN AND METHANE MIXTURE, COMPRESSED   | 2        | 1F                  |               | 2.1           |                    | LQ0                             | E0           |                    | PP, EX, A          | VE01        |   | 1          |                             |         |
| 2035             | 1,1,1-TRIFLUOROETHANE (REFRIGERANT GAS R 143a)   | 2        | 2F                  |               | 2.1           |                    | LQ0                             | E0           |                    | PP, EX, A          | VE01        |   | 1          |                             |         |
| 2036             | XENON  | 2        | 2A                  |               | 2.2           |                    | LQ1                             | E1           |                    | PP                 |             |   | 0          |                             |         |
| 2037             | RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES) without a release device, non-refillable                 | 2        | 5A                  |               | 2.2           | 191<br>303         | LQ2                             | E0           |                    | PP                 |             |   | 0          |                             |         |
| 2037             | RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES) without a release device, non-refillable                 | 2        | 5F                  |               | 2.1           | 191<br>303         | LQ2                             | E0           |                    | PP, EX, A          | VE01        |   | 1          |                             |         |
| 2037             | RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES) without a release device, non-refillable                 | 2        | 5O                  |               | 2.2+5.1       | 191<br>303         | LQ2                             | E0           |                    | PP                 |             |   | 0          |                             |         |
| 2037             | RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES) without a release device, non-refillable                 | 2        | 5T                  |               | 2.3           | 303                | LQ1                             | E0           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 2037             | RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES) without a release device, non-refillable   | 2        | 5TC                 |               | 2.3+8     | 303                | LQ1                             | E0                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2037             | RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES) without a release device, non-refillable   | 2        | 5TF                 |               | 2.3+2.1   | 303                | LQ1                             | E0                 | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2037             | RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES) without a release device, non-refillable   | 2        | 5TFC                |               | 2.3+2.1+8 | 303                | LQ1                             | E0                 | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2037             | RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES) without a release device, non-refillable   | 2        | 5TO                 |               | 2.3+5.1   | 303                | LQ1                             | E0                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2037             | RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES) without a release device, non-refillable   | 2        | 5TOC                |               | 2.3+5.1+8 | 303                | LQ1                             | E0                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2038             | DINITROTOLUENES, LIQUID  | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2044             | 2,2-DIMETHYLPROPANE  | 2        | 2F                  |               | 2.1       |                    | LQ0                             | E0                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2045             | ISOBUTYRALDEHYDE (ISOBUTYL ALDEHYDE)   | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2046             | CYMENES  | 3        | F1                  | III           | 3         |                    | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |            |
| 2047             | DICHLOROPROPENES   | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2048             | DICHLOROPROPENES   | 3        | F1                  | III           | 3         |                    | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |            |
| 2048             | DICYCLOPENTADIENE  | 3        | F1                  | III           | 3         |                    | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |            |
| 2049             | DIETHYLBENZENE   | 3        | F1                  | III           | 3         |                    | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |            |
| 2050             | DIISOBUTYLENE, ISOMERIC COMPOUNDS  | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2051             | 2-DIMETHYLAMINOETHANOL   | 8        | CF1                 | II            | 8+3       |                    | LQ22                            | E2                 | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 2052             | DIPENTENE  | 3        | F1                  | III           | 3         |                    | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |            |
| 2053             | METHYL ISOBUTYL CARBINOL   | 3        | F1                  | III           | 3         |                    | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |            |
| 2054             | MORPHOLINE   | 8        | CF1                 | I             | 8+3       |                    | LQ0                             | E0                 | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 2055             | STYRENE MONOMER, STABILIZED  | 3        | F1                  | III           | 3         |                    | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |            |
| 2056             | TETRAHYDROFURAN  | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2057             | TRIPROPYLENE   | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2057             | TRIPROPYLENE   | 3        | F1                  | III           | 3         |                    | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |            |
| 2058             | VALERALDEHYDE  | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2059             | NITROCELLULOSE SOLUTION, FLAMMABLE with not more than 12.6% nitrogen, by dry mass, and not more than 55% nitrocellulose  | 3        | D                   | I             | 3         | 198<br>531         | LQ3                             | E0                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2059             | NITROCELLULOSE SOLUTION, FLAMMABLE with not more than 12.6% nitrogen, by dry mass, and not more than 55% nitrocellulose (vapour pressure at 50 °C more than 110 kPa) | 3        | D                   | II            | 3         | 198<br>531<br>640C | LQ4                             | E0                 | PP, EX, A          | VE01        |   | 1                           |            |



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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|---|
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a) (7b)                 | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13)  |
| 2059             | NITROCELLULOSE SOLUTION, FLAMMABLE with not more than 12.6% nitrogen, by dry mass, and not more than 55% nitrocellulose (vapour pressure at 50 °C not more than 110 kPa)   | 3        | D                   | II            | 3         | 198<br>531<br>640D | LQ4<br>E0                       |                    | PP, EX, A          | VE01        |   | 1                           |   |
| 2059             | NITROCELLULOSE SOLUTION, FLAMMABLE with not more than 12.6% nitrogen, by dry mass, and not more than 55% nitrocellulose  | 3        | D                   | III           | 3         | 198<br>531         | LQ7<br>E0                       |                    | PP, EX, A          | VE01        |   | 0                           |   |
| 2067             | AMMONIUM NITRATE BASED FERTILIZER  | 5.1      | O2                  | III           | 5.1       | 186<br>306<br>307  | LQ12<br>E1                      | <b>B</b>           | PP                 |             | CO02, HA09<br>ST01, LO04                              | 0                           | CO02, LO04 and HA09 apply only when this substance is carried in bulk or without packaging  |
| 2071             | Ammonium nitrate based fertilizers, uniform mixtures of the nitrogen/phosphate, nitrogen/potash or nitrogen/phosphate/potash type, containing not more than 70% ammonium nitrate and not more than 0.4% total combustible/organic material calculated as carbon or with not more than 45% ammonium nitrate and unrestricted combustible material | 9        | M11                 |               |           | 186<br>193         |                                 | <b>B</b>           | PP                 |             | CO02, HA09<br>ST02                                    | 0                           | Dangerous only in bulk or without packaging. CO02, ST02 and HA09 apply only when this substance is carried in bulk or without packaging |
| 2073             | AMMONIA SOLUTION, relative density less than 0.880 at 15 °C in water, with more than 35% but not more than 50% ammonia   | 2        | 4A                  |               | 2.2       | 532                | LQ1<br>E1                       |                    | PP                 |             |   | 0                           |   |
| 2074             | ACRYLAMIDE, SOLID  | 6.1      | T2                  | III           | 6.1       | 802                | LQ9<br>E1                       | <b>T</b>           | PP, EP             |             |   | 0                           |   |
| 2075             | CHLORAL, ANHYDROUS, STABILIZED   | 6.1      | T1                  | II            | 6.1       | 802                | LQ17<br>E4                      |                    | PP, EP, TOX, A     | VE02        |   | 2                           |   |
| 2076             | CRESOLS, LIQUID  | 6.1      | TC1                 | II            | 6.1+8     | 802                | LQ17<br>E4                      |                    | PP, EP, TOX, A     | VE02        |   | 2                           |   |
| 2077             | alpha-NAPHTHYLAMINE  | 6.1      | T2                  | III           | 6.1       | 802                | LQ9<br>E1                       |                    | PP, EP             |             |   | 0                           |   |
| 2078             | TOLUENE DIISOCYANATE   | 6.1      | T1                  | II            | 6.1       | 279<br>802         | LQ17<br>E4                      | <b>T*</b>          | PP, EP, TOX, A     | VE02        |   | 2                           | * only for 2.4-TOLUENE DIISOCYANATE   |
| 2079             | DIETHYLENETRIAMINE   | 8        | C7                  | II            | 8         |                    | LQ22<br>E2                      | <b>T</b>           | PP, EP             |             |   | 0                           |   |
| 2186             | HYDROGEN CHLORIDE, REFRIGERATED LIQUID   | 2        | 3TC                 |               |           |                    |                                 |                    |                    |             |   |                             |   |
| 2187             | CARBON DIOXIDE, REFRIGERATED LIQUID  | 2        | 3A                  |               | 2.2       | 593                | LQ1<br>E1                       |                    | PP                 |             |   | 0                           |   |
| 2188             | ARSINE   | 2        | 2TF                 |               | 2.3+2.1   |                    | LQ0<br>E0                       |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |   |
| 2189             | DICHLOROSILANE   | 2        | 2TFC                |               | 2.3+2.1+8 |                    | LQ0<br>E0                       |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |   |
| 2190             | OXYGEN DIFLUORIDE, COMPRESSED  | 2        | 1TOC                |               | 2.3+5.1+8 |                    | LQ0<br>E0                       |                    | PP, EP, TOX, A     | VE02        |   | 2                           |   |

## CARRIAGE PROHIBITED

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|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|--|
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a) 3.5.1.2 (7b)         | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13)   |
| 2191             | SULPHURYL FLUORIDE  | 2        | 2T                  |               | 2.3       |                    | LQ0 E0                          |                    | PP, EP, TOX, A     | VE02        |   | 2                           |  |
| 2192             | GERMANE   | 2        | 2TF                 |               | 2.3+2.1   | 632                | LQ0 E0                          |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |  |
| 2193             | HEXAFLUOROETHANE (REFRIGERANT GAS R 116)  | 2        | 2A                  |               | 2.2       |                    | LQ1 E1                          |                    | PP                 |             |   | 0                           |  |
| 2194             | SELENIUM HEXAFLUORIDE   | 2        | 2TC                 |               | 2.3+8     |                    | LQ0 E0                          |                    | PP, EP, TOX, A     | VE02        |   | 2                           |  |
| 2195             | TELLURIUM HEXAFLUORIDE  | 2        | 2TC                 |               | 2.3+8     |                    | LQ0 E0                          |                    | PP, EP, TOX, A     | VE02        |   | 2                           |  |
| 2196             | TUNGSTEN HEXAFLUORIDE   | 2        | 2TC                 |               | 2.3+8     |                    | LQ0 E0                          |                    | PP, EP, TOX, A     | VE02        |   | 2                           |  |
| 2197             | HYDROGEN IODIDE, ANHYDROUS  | 2        | 2TC                 |               | 2.3+8     |                    | LQ0 E0                          |                    | PP, EP, TOX, A     | VE02        |   | 2                           |  |
| 2198             | PHOSPHORUS PENTAFLUORIDE  | 2        | 2TC                 |               | 2.3+8     |                    | LQ0 E0                          |                    | PP, EP, TOX, A     | VE02        |   | 2                           |  |
| 2199             | PHOSPHINE   | 2        | 2TF                 |               | 2.3+2.1   | 632                | LQ0 E0                          |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |  |
| 2200             | PROPADIENE, STABILIZED  | 2        | 2F                  |               | 2.1       |                    | LQ0 E0                          |                    | PP, EX, A          | VE01        |   | 1                           |  |
| 2201             | NITROUS OXIDE, REFRIGERATED LIQUID  | 2        | 30                  |               | 2.2+5.1   |                    | LQ0 E0                          |                    | PP                 |             |   | 0                           |  |
| 2202             | HYDROGEN SELENIDE, ANHYDROUS  | 2        | 2TF                 |               | 2.3+2.1   |                    | LQ0 E0                          |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |  |
| 2203             | SILANE  | 2        | 2F                  |               | 2.1       | 632                | LQ0 E0                          |                    | PP, EX, A          | VE01        |   | 1                           |  |
| 2204             | CARBONYL SULPHIDE   | 2        | 2TF                 |               | 2.3+2.1   |                    | LQ0 E0                          |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |  |
| 2205             | ADIPONITRILE  | 6.1      | T1                  | III           | 6.1       | 802                | LQ7 E1                          | T                  | PP, EP, TOX, A     | VE02        |   | 0                           |  |
| 2206             | ISOCYANATES, TOXIC, N.O.S. or ISOCYANATE SOLUTION, TOXIC, N.O.S.                              | 6.1      | T1                  | II            | 6.1       | 274 551 802        | LQ17 E4                         | T                  | PP, EP, TOX, A     | VE02        |   | 2                           |  |
| 2206             | ISOCYANATES, TOXIC, N.O.S. or ISOCYANATE SOLUTION, TOXIC, N.O.S.                              | 6.1      | T1                  | III           | 6.1       | 274 551 802        | LQ7 E1                          |                    | PP, EP, TOX, A     | VE02        |   | 0                           |  |
| 2208             | CALCIUM HYPOCHLORITE MIXTURE, DRY with more than 10% but not more than 39% available chlorine | 5.1      | O2                  | III           | 5.1       | 313 314            | LQ12 E1                         |                    | PP                 |             |   | 0                           |  |
| 2209             | FORMALDEHYDE SOLUTION with not less than 25% formaldehyde                                     | 8        | C9                  | III           | 8         | 533                | LQ7 E1                          | T                  | PP, EP             |             |   | 0                           |  |
| 2210             | MANEB or MANEB PREPARATION with not less than 60% maneb                                       | 4.2      | SW                  | III           | 4.2+4.3   | 273                | LQ0 E1                          | B                  | PP, EX, A          | VE01, VE03  |   | 0                           | VE03, IN01 and IN03 apply only when this substance is carried in bulk or without packaging |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|---------------|---|-----------------------------|--|
|                  |  |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |               |   |                             |  |
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)    | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13)   |
| 2211             | POLYMERIC BEADS, EXPANDABLE, evolving flammable vapour               | 9        | M3                  | III           | none      | 207<br>633         | LQ27                            | E1           | B                  | PP, EX, EP, A      | VE01,<br>VE03 | IN01  | 0                           | VE03 and IN01 apply only when this substance is carried in bulk or without packaging |
| 2212             | BLUE ASBESTOS (crocidolite) or BROWN ASBESTOS (amosite, myosorite)   | 9        | M1                  | II            | 9         | 168<br>802         | LQ25                            | E2           |                    | PP                 |               |   | 0                           |  |
| 2213             | PARAFORMALDEHYDE   | 4.1      | F1                  | III           | 4.1       |                    | LQ9                             | E1           |                    | PP                 |               |   | 0                           |  |
| 2214             | PHTHALIC ANHYDRIDE with more than 0.05% of maleic anhydride          | 8        | C4                  | III           | 8         | 169                | LQ24                            | E1           |                    | PP, EP             |               |   | 0                           |  |
| 2215             | MALEIC ANHYDRIDE, MOLTEN   | 8        | C3                  | III           | 8         |                    | LQ0                             | E0           | T                  | PP, EP             |               |   | 0                           |  |
| 2215             | MALEIC ANHYDRIDE   | 8        | C4                  | III           | 8         |                    | LQ24                            | E1           |                    | PP, EP             |               |   | 0                           |  |
| 2216             | FISH MEAL, STABILISED or FISH SCRAP, STABILISED                      | 9        | M11                 |               |           |                    |                                 |              | B                  | PP                 |               |   | 0                           |  |
| 2217             | SEED CAKE with not more than 1.5% oil and not more than 11% moisture | 4.2      | S2                  | III           | 4.2       | 142<br>800         | LQ0                             | E1           | B                  | PP                 |               | IN01  | 0                           | IN01 applies only when this substance is carried in bulk or without packaging        |
| 2218             | ACRYLIC ACID, STABILIZED   | 8        | CF1                 | II            | 8+3       |                    | LQ22                            | E2           | T                  | PP, EP, EX, A      | VE01          |   | 1                           |  |
| 2219             | ALLYL GLYCIDYL ETHER   | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           |                    | PP, EX, A          | VE01          |   | 0                           |  |
| 2222             | ANISOLE  | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           |                    | PP, EX, A          | VE01          |   | 0                           |  |
| 2224             | BENZONITRILE   | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02          |   | 2                           |  |
| 2225             | BENZENESULPHONYL CHLORIDE  | 8        | C3                  | III           | 8         |                    | LQ7                             | E1           |                    | PP, EP             |               |   | 0                           |  |
| 2226             | BENZOTRICHLORIDE   | 8        | C9                  | II            | 8         |                    | LQ22                            | E2           |                    | PP, EP             |               |   | 0                           |  |
| 2227             | p-BUTYL METHACRYLATE, STABILIZED                                     | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           | T                  | PP, EX, A          | VE01          |   | 0                           |  |
| 2232             | 2-CHLOROETHANAL  | 6.1      | T1                  | I             | 6.1       | 802                | LQ0                             | E5           |                    | PP, EP, TOX, A     | VE02          |   | 2                           |  |
| 2233             | CHLOROANISIDINES   | 6.1      | T2                  | III           | 6.1       | 802                | LQ9                             | E1           |                    | PP, EP             |               |   | 0                           |  |
| 2234             | CHLOROBENZOTRIFLUORIDES  | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           |                    | PP, EX, A          | VE01          |   | 0                           |  |
| 2235             | CHLOROBENZYL CHLORIDES, LIQUID                                       | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1           |                    | PP, EP             |               |   | 0                           |  |
| 2236             | 3-CHLORO-4-METHYLPHENYL ISOCYANATE, LIQUID                           | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4           |                    | PP, EP             |               |   | 2                           |  |
| 2237             | CHLORONITROANILINES  | 6.1      | T2                  | III           | 6.1       | 802                | LQ9                             | E1           |                    | PP, EP             |               |   | 0                           |  |
| 2238             | CHLOROTOLUENES   | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           | T                  | PP, EX, A          | VE01          |   | 0                           |  |
| 2239             | CHLOROTOLUIDINES, SOLID  | 6.1      | T2                  | III           | 6.1       | 802                | LQ9                             | E1           |                    | PP, EP             |               |   | 0                           |  |
| 2240             | CHROMOSULPHURIC ACID   | 8        | C1                  | I             | 8         |                    | LQ0                             | E0           |                    | PP, EP             |               |   | 0                           |  |
| 2241             | CYCLOHEPTANE   | 3        | F1                  | II            | 3         |                    | LQ4                             | E2           | T                  | PP, EX, A          | VE01          |   | 1                           |  |
| 2242             | CYCLOHEPTENE   | 3        | F1                  | II            | 3         |                    | LQ4                             | E2           |                    | PP, EX, A          | VE01          |   | 1                           |  |
| 2243             | CYCLOHEXYL ACETATE   | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           |                    | PP, EX, A          | VE01          |   | 0                           |  |
| 2244             | CYCLOPENTANOL  | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           |                    | PP, EX, A          | VE01          |   | 0                           |  |
| 2245             | CYCLOPENTANONE   | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           |                    | PP, EX, A          | VE01          |   | 0                           |  |
| 2246             | CYCLOPENTENE   | 3        | F1                  | II            | 3         |                    | LQ4                             | E2           |                    | PP, EX, A          | VE01          |   | 1                           |  |
| 2247             | n-DECANE   | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           | T                  | PP, EX, A          | VE01          |   | 0                           |  |
| 2248             | DI-n-BUTYLAMINE  | 8        | CF1                 | II            | 8+3       |                    | LQ22                            | E2           | T                  | PP, EP, EX, A      | VE01          |   | 1                           |  |

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|----------------------------|--|-------|---------------------|---------------|--------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|---------|
| (1)                        | 3.1.2 (2)  | (3a)  | (3b)                | (4)           | (5)    | (6)                | (7a) (7b)                       | (8)                | (9)                | (10)        | (11)  | (12)                        | (13)    |
| <b>CARRIAGE PROHIBITED</b> |  |       |                     |               |        |                    |                                 |                    |                    |             |   |                             |         |
| 2249                       | DICHLORODIMETHYL ETHER, SYMMETRICAL  | 6.1   | TF1                 |               |        |                    |                                 |                    |                    |             |   |                             |         |
| 2250                       | DICHLOROPHENYL ISOCYANATES   | 6.1   | T2                  | II            | 6.1    | 802                | LQ17                            | E4                 | PP, EP             | VE01        |   | 2                           |         |
| 2251                       | BICYCLO[2.2.1]HEPTA-2,5-DIENE, STABILIZED (2,5-NORBORNADIENE, STABILIZED)            | 3     | F1                  | II            | 3      |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |         |
| 2252                       | 1,2-DIMETHOXYETHANE  | 3     | F1                  | II            | 3      |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |         |
| 2253                       | N,N-DIMETHYLANILINE  | 6.1   | T1                  | II            | 6.1    | 802                | LQ17                            | E4                 | PP, EP, TOX, A     | VE02        |   | 2                           |         |
| 2254                       | MATCHES, FUSEE   | 4.1   | F1                  | III           | 4.1    | 293                | LQ9                             | E1                 | PP                 |             |   | 0                           |         |
| 2256                       | CYCLOHEXENE  | 3     | F1                  | II            | 3      |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |         |
| 2257                       | POTASSIUM  | 4.3   | W2                  | I             | 4.3    |                    | LQ0                             | E0                 | PP, EX, A          | VE01        | HA08  | 0                           |         |
| 2258                       | 1,2-PROPYLENEDIAMINE   | 8     | CF1                 | II            | 8+3    |                    | LQ22                            | E2                 | PP, EP, EX, A      | VE01        |   | 1                           |         |
| 2259                       | TRITHYLENETETRAMINE  | 8     | C7                  | II            | 8      |                    | LQ22                            | E2                 | PP, EP             |             |   | 0                           |         |
| 2260                       | TRIPROPYLAMINE   | 3     | FC                  | III           | 3+8    |                    | LQ7                             | E1                 | PP, EP, EX, A      | VE01        |   | 0                           |         |
| 2261                       | XYLENOLS, SOLID  | 6.1   | T2                  | II            | 6.1    | 802                | LQ18                            | E4                 | PP, EP             |             |   | 2                           |         |
| 2262                       | DIMETHYLCARBAMOYL CHLORIDE   | 8     | C3                  | II            | 8      |                    | LQ22                            | E2                 | PP, EP             |             |   | 0                           |         |
| 2263                       | DIMETHYLCYCLOHEXANES   | 3     | F1                  | II            | 3      |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |         |
| 2264                       | N,N-DIMETHYLCYCLOHEXYLAMINE  | 8     | CF1                 | II            | 8+3    |                    | LQ22                            | E2                 | PP, EP, EX, A      | VE01        |   | 1                           |         |
| 2265                       | N,N-DIMETHYLFORMAMIDE  | 3     | F1                  | III           | 3      |                    | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |         |
| 2266                       | DIMETHYL-N-PROPYLAMINE   | 3     | FC                  | II            | 3+8    |                    | LQ4                             | E2                 | PP, EP, EX, A      | VE01        |   | 1                           |         |
| 2267                       | DIMETHYL THIOPHOSPHORYL CHLORIDE   | 6.1   | TC1                 | II            | 6.1+8  | 802                | LQ17                            | E4                 | PP, EP, TOX, A     | VE02        |   | 2                           |         |
| 2269                       | 3,3'-MINODIPROPYLAMINE   | 8     | C7                  | III           | 8      |                    | LQ7                             | E1                 | PP, EP             |             |   | 0                           |         |
| 2270                       | ETHYLAMINE, AQUEOUS SOLUTION with not less than 50% but not more than 70% ethylamine | 3     | FC                  | II            | 3+8    |                    | LQ4                             | E2                 | PP, EP, EX, A      | VE01        |   | 1                           |         |
| 2271                       | ETHYL AMYL KETONE  | 3     | F1                  | III           | 3      |                    | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |         |
| 2272                       | N-ETHYLANILINE   | 6.1   | T1                  | III           | 6.1    | 802                | LQ7                             | E1                 | PP, EP, TOX, A     | VE02        |   | 0                           |         |
| 2273                       | 2-ETHYLANILINE   | 6.1   | T1                  | III           | 6.1    | 802                | LQ7                             | E1                 | PP, EP, TOX, A     | VE02        |   | 0                           |         |
| 2274                       | N-ETHYL-N-BENZYLANILINE  | 6.1   | T1                  | III           | 6.1    | 802                | LQ7                             | E1                 | PP, EP, TOX, A     | VE02        |   | 0                           |         |
| 2275                       | 2-ETHYLBUTANOL   | 3     | F1                  | III           | 3      |                    | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |         |
| 2276                       | 2-ETHYLHEXYLAMINE  | 3     | FC                  | III           | 3+8    |                    | LQ7                             | E1                 | PP, EP, EX, A      | VE01        |   | 0                           |         |
| 2277                       | ETHYL METHACRYLATE, STABILIZED   | 3     | F1                  | II            | 3      |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |         |
| 2278                       | n-HEPTENE  | 3     | F1                  | II            | 3      |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |         |
| 2279                       | HEXACHLOROBUTADIENE  | 6.1   | T1                  | III           | 6.1    | 802                | LQ7                             | E1                 | PP, EP, TOX, A     | VE02        |   | 0                           |         |
| 2280                       | HEXAMETHYLENEDIAMINE, SOLID  | 8     | C8                  | III           | 8      |                    | LQ24                            | E1                 | PP, EP             |             |   | 0                           |         |
| 2281                       | HEXAMETHYLENE DIISOCYANATE   | 6.1   | T1                  | II            | 6.1    | 802                | LQ17                            | E4                 | PP, EP, TOX, A     | VE02        |   | 2                           |         |
| 2282                       | HEXANOLS   | 3     | F1                  | III           | 3      |                    | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |         |
| 2283                       | ISOBUTYL METHACRYLATE, STABILIZED  | 3     | F1                  | III           | 3      |                    | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |         |

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|------------------|-----------------------------------|----------|---------------------|---------------|-----------|--------------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)                         | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)                  | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 2284             | ISOBUTYRONITRILE                  | 3        | FT1                 | II            | 3+6.1     | 802                      | LQ0                             |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2285             | ISOCYANATOBENZOTRIFLUORIDES       | 6.1      | TF1                 | II            | 6.1+3     | 802                      | LQ17                            |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2286             | PENTAMETHYLHEPTANE                | 3        | F1                  | III           | 3         |                          | LQ7                             | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 2287             | ISOHEPTENES                       | 3        | F1                  | II            | 3         |                          | LQ4                             |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2288             | ISOHEXENES                        | 3        | F1                  | II            | 3         |                          | LQ4                             |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2289             | ISOPHORONEDIAMINE                 | 8        | C7                  | III           | 8         |                          | LQ7                             | T                  | PP, EP             |             |   | 0                           |            |
| 2290             | ISOPHORONE DIISOCYANATE           | 6.1      | T1                  | III           | 6.1       | 802                      | LQ7                             |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2291             | LEAD COMPOUND, SOLUBLE, N.O.S.    | 6.1      | T5                  | III           | 6.1       | 199<br>274<br>535<br>802 | LQ9                             |                    | PP, EP             |             |   | 0                           |            |
| 2293             | 4-METHOXY-4-METHYLPENTAN-2-ONE    | 3        | F1                  | III           | 3         |                          | LQ7                             |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 2294             | N-METHYLANILINE                   | 6.1      | T1                  | III           | 6.1       | 802                      | LQ7                             |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2295             | METHYL CHLOROACETATE              | 6.1      | TF1                 | I             | 6.1+3     | 802                      | LQ0                             |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2296             | METHYLCYCLOHEXANE                 | 3        | F1                  | II            | 3         |                          | LQ4                             |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2297             | METHYLCYCLOHEXANONE               | 3        | F1                  | III           | 3         |                          | LQ7                             |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 2298             | METHYLCYCLOPENTANE                | 3        | F1                  | II            | 3         |                          | LQ4                             |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2299             | METHYL-DICHLOROACETATE            | 6.1      | T1                  | III           | 6.1       | 802                      | LQ7                             |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2300             | 2-METHYL-5-ETHYLPYRIDINE          | 6.1      | T1                  | III           | 6.1       | 802                      | LQ7                             |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2301             | 2-METHYLFURAN                     | 3        | F1                  | II            | 3         |                          | LQ4                             |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2302             | 5-METHYLHEXAN-2-ONE               | 3        | F1                  | III           | 3         |                          | LQ7                             | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 2303             | ISOPROPENYLBENZENE                | 3        | F1                  | III           | 3         |                          | LQ7                             | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 2304             | NAPHTHALENE, MOLTEN               | 4.1      | F2                  | III           | 4.1       | 536                      | LQ0                             |                    | PP                 |             |   | 0                           |            |
| 2305             | NITROBENZENESULPHONIC ACID        | 8        | C4                  | II            | 8         |                          | LQ23                            |                    | PP, EP             |             |   | 0                           |            |
| 2306             | NITROBENZOTRIFLUORIDES, LIQUID    | 6.1      | T1                  | II            | 6.1       | 802                      | LQ17                            |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2307             | 3-NITRO-4-CHLOROBENZOTRIFLUORIDE  | 6.1      | T1                  | II            | 6.1       | 802                      | LQ17                            |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2308             | NITROSYLSULPHURIC ACID, LIQUID    | 8        | C1                  | II            | 8         |                          | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 2309             | OCTADIENE                         | 3        | F1                  | II            | 3         |                          | LQ4                             | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 2310             | PENTANE-2,4-DIONE                 | 3        | FT1                 | III           | 3+6.1     | 802                      | LQ7                             |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 0                           |            |
| 2311             | PHENETIDINES                      | 6.1      | T1                  | III           | 6.1       | 279<br>802               | LQ7                             | T                  | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2312             | PHENOL, MOLTEN                    | 6.1      | T1                  | II            | 6.1       | 802                      | LQ0                             | T                  | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2313             | PICOLINES                         | 3        | F1                  | III           | 3         |                          | LQ7                             |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 2315             | POLYCHLORINATED BIPHENYLS, LIQUID | 9        | M2                  | II            | 9         | 305<br>802               | LQ26                            |                    | PP, EP             |             |   | 0                           |            |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 2316             | SODIUM CUPROCYANIDE, SOLID                                       | 6.1      | T5                  | I             | 6.1       | 802                | LQ0                             | E5                 | PP, EP             | VE01        |   | 2                           |            |
| 2317             | SODIUM CUPROCYANIDE SOLUTION                                     | 6.1      | T4                  | I             | 6.1       | 802                | LQ0                             | E5                 | PP, EP             |             |   | 2                           |            |
| 2318             | SODIUM HYDROSULPHIDE with less than 25% water of crystallization | 4.2      | S4                  | II            | 4.2       | 504                | LQ0                             | E2                 | PP                 |             |   | 0                           |            |
| 2319             | TERPENE HYDROCARBONS, N.O.S.                                     | 3        | F1                  | III           | 3         |                    | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |            |
| 2320             | TETRAETHYLENEPENTAMINE   | 8        | C7                  | III           | 8         |                    | LQ7                             | E1                 | PP, EP             |             |   | 0                           |            |
| 2321             | TRICHLOROBENZENES, LIQUID  | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1                 | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2322             | TRICHLOROBUTENE  | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2323             | TRIETHYL PHOSPHITE   | 3        | F1                  | III           | 3         |                    | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |            |
| 2324             | TRISOBUTYLENE  | 3        | F1                  | III           | 3         |                    | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |            |
| 2325             | 1,3,5-TRIMETHYLBENZENE   | 3        | F1                  | III           | 3         |                    | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |            |
| 2326             | TRIMETHYLCYCLOHEXYLAMINE   | 8        | C7                  | III           | 8         |                    | LQ7                             | E1                 | PP, EP             |             |   | 0                           |            |
| 2327             | TRIMETHYLHEXAMETHYLENEDIAMINES                                   | 8        | C7                  | III           | 8         |                    | LQ7                             | E1                 | PP, EP             |             |   | 0                           |            |
| 2328             | TRIMETHYLHEXAMETHYLENE DIISOCYANATE                              | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1                 | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2329             | TRIMETHYL PHOSPHITE  | 3        | F1                  | III           | 3         |                    | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |            |
| 2330             | UNDECANE   | 3        | F1                  | III           | 3         |                    | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |            |
| 2331             | ZINC CHLORIDE, ANHYDROUS   | 8        | C2                  | III           | 8         |                    | LQ24                            | E1                 | PP, EP             |             |   | 0                           |            |
| 2332             | ACETALDEHYDE OXIME   | 3        | F1                  | III           | 3         |                    | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |            |
| 2333             | ALLYL ACETATE  | 3        | FT1                 | II            | 3+6.1     | 802                | LQ0                             | E2                 | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2334             | ALLYLAMINE   | 6.1      | TF1                 | I             | 6.1+3     | 802                | LQ0                             | E5                 | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2335             | ALLYL ETHYL ETHER  | 3        | FT1                 | II            | 3+6.1     | 802                | LQ0                             | E2                 | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2336             | ALLYL FORMATE  | 3        | FT1                 | I             | 3+6.1     | 802                | LQ0                             | E0                 | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2337             | PHENYL MERCAPTAN   | 6.1      | TF1                 | I             | 6.1+3     | 802                | LQ0                             | E5                 | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2338             | BENZOTRIFLUORIDE   | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2339             | 2-BROMOBUTANE  | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2340             | 2-BROMOETHYL ETHYL ETHER   | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2341             | 1-BROMO-3-METHYLBUTANE   | 3        | F1                  | III           | 3         |                    | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |            |
| 2342             | BROMOMETHYLPROPANES  | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2343             | 2-BROMOPENTANE   | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2344             | BROMOPROPANES  | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2345             | BROMOPROPANES  | 3        | F1                  | III           | 3         |                    | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |            |
| 2346             | 3-BROMOPROPYNE   | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2347             | BUTANEDIONE  | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2348             | BUTYL MERCAPTAN  | 3        | F1                  | III           | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2349             | BUTYL ACRYLATES, STABILIZED                                      | 3        | F1                  | III           | 3         |                    | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2350             | BUTYL METHYL ETHER   | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2351             | BUTYL NITRILES   | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2351             | BUTYL NITRILES   | 3        | F1                  | III           | 3         |                    | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |            |

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|------------------|--------------------------------|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)                      | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a) 3.5.1.2 (7b)         | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 2352             | BUTYL VINYL ETHER, STABILIZED  | 3        | FI                  | II            | 3         |                    | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2353             | BUTYRYL CHLORIDE               | 3        | FC                  | II            | 3+8       |                    | LQ4 E2                          |                    | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 2354             | CHLOROMETHYL ETHYL ETHER       | 3        | FT1                 | II            | 3+6.1     | 802                | LQ0 E2                          |                    | TOX, A             | VE01, VE02  |   | 2                           |            |
| 2356             | 2-CHLOROPROPANE                | 3        | FI                  | I             | 3         |                    | LQ3 E3                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 2357             | CYCLOHEXYLAMINE                | 8        | CF1                 | II            | 8+3       |                    | LQ22 E2                         | T                  | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 2358             | CYCLOOCTATETRAENE              | 3        | FI                  | II            | 3         |                    | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2359             | DIALLYLAMINE                   | 3        | FTC                 | II            | 3+6.1+8   | 802                | LQ0 E2                          |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2360             | DIALLYL ETHER                  | 3        | FT1                 | II            | 3+6.1     | 802                | LQ0 E2                          |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2361             | DIISOBUTYLAMINE                | 3        | FC                  | III           | 3+8       |                    | LQ7 E1                          |                    | PP, EP, EX, A      | VE01        |   | 0                           |            |
| 2362             | 1,1-DICHLOROETHANE             | 3        | FI                  | II            | 3         |                    | LQ4 E2                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 2363             | ETHYL MERCAPTAN                | 3        | FI                  | I             | 3         |                    | LQ3 E3                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2364             | n-PROPYLBENZENE                | 3        | FI                  | III           | 3         |                    | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 2366             | DIETHYL CARBONATE              | 3        | FI                  | III           | 3         |                    | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 2367             | alpha-METHYLVALERALDEHYDE      | 3        | FI                  | II            | 3         |                    | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2368             | alpha-PINENE                   | 3        | FI                  | III           | 3         |                    | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 2370             | 1-HEXENE                       | 3        | FI                  | II            | 3         |                    | LQ4 E2                          | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 2371             | ISOPENTENES                    | 3        | FI                  | I             | 3         |                    | LQ3 E3                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2372             | 1,2-DI-(DIMETHYLAMINO) ETHANE  | 3        | FI                  | II            | 3         |                    | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2373             | DIETHOXYMETHANE                | 3        | FI                  | II            | 3         |                    | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2374             | 3,3-DIETHOXYPROPENE            | 3        | FI                  | II            | 3         |                    | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2375             | DIETHYL SULPHIDE               | 3        | FI                  | II            | 3         |                    | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2376             | 2,3-DIHYDROPYRAN               | 3        | FI                  | II            | 3         |                    | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2377             | 1,1-DIMETHOXYETHANE            | 3        | FI                  | II            | 3         |                    | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2378             | 2-DIMETHYLAMINOACETONITRILE    | 3        | FT1                 | II            | 3+6.1     | 802                | LQ0 E2                          |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2379             | 1,3-DIMETHYLBUTYLAMINE         | 3        | FC                  | II            | 3+8       |                    | LQ4 E2                          |                    | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 2380             | DIMETHYLDIETHOXY SILANE        | 3        | FI                  | II            | 3         |                    | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2381             | DIMETHYL DISULPHIDE            | 3        | FI                  | II            | 3         |                    | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2382             | DIMETHYLHYDRAZINE, SYMMETRICAL | 6.1      | TF1                 | I             | 6.1+3     | 802                | LQ0 E5                          | T                  | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2383             | DIPROPYLAMINE                  | 3        | FC                  | II            | 3+8       |                    | LQ4 E2                          | T                  | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 2384             | DI-n-PROPYL ETHER              | 3        | FI                  | II            | 3         |                    | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2385             | ETHYL ISOBUTYRATE              | 3        | FI                  | II            | 3         |                    | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2386             | 1-ETHYLPYRIDINE                | 3        | FC                  | II            | 3+8       |                    | LQ4 E2                          |                    | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 2387             | FLUOROBENZENE                  | 3        | FI                  | II            | 3         |                    | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2388             | FLUOROTOLUENES                 | 3        | FI                  | II            | 3         |                    | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2389             | FURAN                          | 3        | FI                  | I             | 3         |                    | LQ3 E3                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2390             | 2-IODOBUTANE                   | 3        | FI                  | II            | 3         |                    | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2391             | IODOMETHYLPROPANES             | 3        | FI                  | II            | 3         |                    | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2392             | IODOPROPANES                   | 3        | FI                  | III           | 3         |                    | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 2393             | ISOBUTYL FORMATE               | 3        | FI                  | II            | 3         |                    | LQ4 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2394             | ISOBUTYL PROPIONATE            | 3        | FI                  | III           | 3         |                    | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 2395             | ISOBUTYRYL CHLORIDE            | 3        | FC                  | II            | 3+8       |                    | LQ4 E2                          |                    | PP, EP, EX, A      | VE01        |   | 1                           |            |

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| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 2396             | METHACRYLALDEHYDE, STABILIZED  | 3        | FT1                 | II            | 3+6.1     | 802                | LQ0                             | E2                 | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2397             | 3-METHYLBUTAN-2-ONE  | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2398             | METHYL tert-BUTYL ETHER  | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2399             | 1-METHYLPYRIDINE   | 3        | FC                  | II            | 3+8       |                    | LQ4                             | E2                 | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 2400             | METHYL ISOVALERATE   | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2401             | PIPERIDINE   | 8        | CF1                 | I             | 8+3       |                    | LQ0                             | E0                 | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 2402             | PROPANE THIOLS   | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2403             | ISOPROPENYL ACETATE  | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2404             | PROPIONITRILE  | 3        | FT1                 | II            | 3+6.1     | 802                | LQ0                             | E2                 | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2405             | ISOPROPYL BUTYRATE   | 3        | F1                  | III           | 3         |                    | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |            |
| 2406             | ISOPROPYL ISOBUTYRATE  | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2407             | ISOPROPYL CHLOROFORMATE  | 6.1      | TFC                 | I             | 6.1+3+8   | 802                | LQ0                             | E5                 | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2409             | ISOPROPYL PROPIONATE   | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2410             | 1,2,3,6-TETRAHYDROPIRIDINE   | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2411             | BUTYRONITRILE  | 3        | FT1                 | II            | 3+6.1     | 802                | LQ0                             | E2                 | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2412             | TETRAHYDROTHIOPHENE  | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2413             | TETRAPROPYL ORTHOTITANATE  | 3        | F1                  | III           | 3         |                    | LQ7                             | E1                 | PP, EX, A          | VE01        |   | 0                           |            |
| 2414             | THIOPHENE  | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2416             | TRIMETHYL BORATE   | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2417             | CARBONYL FLUORIDE  | 2        | 2TC                 |               | 2.3+8     |                    | LQ0                             | E0                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2418             | SULPHUR TETRAFLUORIDE  | 2        | 2TC                 |               | 2.3+8     |                    | LQ0                             | E0                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2419             | BROMOTRIFLUOROETHYLENE   | 2        | 2F                  |               | 2.1       |                    | LQ0                             | E0                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2420             | HEXAFLUOROACETONE  | 2        | 2TC                 |               | 2.3+8     |                    | LQ0                             | E0                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2421             | NITROGEN TRIOXIDE  | 2        | 2TOC                |               |           |                    |                                 |                    | A                  |             |   |                             |            |
| 2422             | OCTAFLUOROBUT-2-ENE (REFRIGERANT GAS R 1318)   | 2        | 2A                  |               | 2.2       |                    | LQ1                             | E1                 | PP                 |             |   | 0                           |            |
| 2424             | OCTAFLUOROPROPANE (REFRIGERANT GAS R 218)  | 2        | 2A                  |               | 2.2       |                    | LQ1                             | E1                 | PP                 |             |   | 0                           |            |
| 2426             | AMMONIUM NITRATE, LIQUID, hot concentrated solution, in a concentration of more than 80% but not more than 93% | 5.1      | O1                  |               | 5.1       | 252<br>644         | LQ0                             | E0                 | PP                 |             |   | 0                           |            |
| 2427             | POTASSIUM CHLORATE, AQUEOUS SOLUTION   | 5.1      | O1                  | II            | 5.1       |                    | LQ10                            | E2                 | PP                 |             |   | 0                           |            |
| 2427             | POTASSIUM CHLORATE, AQUEOUS SOLUTION   | 5.1      | O1                  | III           | 5.1       |                    | LQ13                            | E1                 | PP                 |             |   | 0                           |            |
| 2428             | SODIUM CHLORATE, AQUEOUS SOLUTION  | 5.1      | O1                  | II            | 5.1       |                    | LQ10                            | E2                 | PP                 |             |   | 0                           |            |
| 2428             | SODIUM CHLORATE, AQUEOUS SOLUTION  | 5.1      | O1                  | III           | 5.1       |                    | LQ13                            | E1                 | PP                 |             |   | 0                           |            |

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| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 2429             | CALCIUM CHLORATE, AQUEOUS SOLUTION   | 5.1      | O1                  | II            | 5.1       |                    | LQ10                            | E2                 | PP                 |             |   | 0                           |            |
| 2429             | CALCIUM CHLORATE, AQUEOUS SOLUTION   | 5.1      | O1                  | III           | 5.1       |                    | LQ13                            | E1                 | PP                 |             |   | 0                           |            |
| 2430             | ALKYLPHENOLS, SOLID, N.O.S. (including C <sub>2</sub> -C <sub>12</sub> homologues) | 8        | C4                  | I             | 8         | 274                | LQ0                             | E0                 | PP, EP             |             |   | 0                           |            |
| 2430             | ALKYLPHENOLS, SOLID, N.O.S. (including C <sub>2</sub> -C <sub>12</sub> homologues) | 8        | C4                  | II            | 8         | 274                | LQ23                            | E2                 | PP, EP             |             |   | 0                           |            |
| 2430             | ALKYLPHENOLS, SOLID, N.O.S. (including C <sub>2</sub> -C <sub>12</sub> homologues) | 8        | C4                  | III           | 8         | 274                | LQ24                            | E1                 | PP, EP             |             |   | 0                           |            |
| 2431             | ANISIDINES   | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1                 | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2432             | N,N-DIETHYLANILINE   | 6.1      | T1                  | III           | 6.1       | 279                | LQ7                             | E1                 | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2432             | N,N-DIETHYLANILINE   | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1                 | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2433             | CHLORONITROTOLUENES, LIQUID  | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1                 | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2434             | DIBENZYLIDICHLOROSILANE  | 8        | C3                  | II            | 8         |                    | LQ22                            | E2                 | PP, EP             |             |   | 0                           |            |
| 2435             | ETHYLPHENYLDICHLOROSILANE  | 8        | C3                  | II            | 8         |                    | LQ22                            | E2                 | PP, EP             |             |   | 0                           |            |
| 2436             | THIOACETIC ACID  | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2437             | METHYLPHENYLDICHLOROSILANE   | 8        | C3                  | II            | 8         |                    | LQ22                            | E2                 | PP, EP             |             |   | 0                           |            |
| 2438             | TRIMETHYLACETYL CHLORIDE   | 6.1      | TFC                 | I             | 6.1+3+8   | 802                | LQ0                             | E5                 | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2439             | SODIUM HYDROGENDIFLUORIDE  | 8        | C2                  | II            | 8         |                    | LQ23                            | E2                 | PP, EP             |             |   | 0                           |            |
| 2440             | STANNIC CHLORIDE PENTAHYDRATE  | 8        | C2                  | III           | 8         |                    | LQ24                            | E1                 | PP, EP             |             |   | 0                           |            |
| 2441             | TITANIUM TRICHLORIDE, PYROPHORIC or TITANIUM TRICHLORIDE MIXTURE, PYROPHORIC       | 4.2      | SC4                 | I             | 4.2+8     | 537                | LQ0                             | E0                 | PP                 |             |   | 0                           |            |
| 2442             | TRICHLOROACETYL CHLORIDE   | 8        | C3                  | II            | 8         |                    | LQ22                            | E2                 | PP, EP             |             |   | 0                           |            |
| 2443             | VANADIUM OXYTRICHLORIDE  | 8        | C1                  | II            | 8         |                    | LQ22                            | E2                 | PP, EP             |             |   | 0                           |            |
| 2444             | VANADIUM TETRACHLORIDE   | 8        | C1                  | I             | 8         |                    | LQ0                             | E0                 | PP, EP             |             |   | 0                           |            |
| 2446             | NITROCRESOLS, SOLID  | 6.1      | T2                  | III           | 6.1       | 802                | LQ9                             | E1                 | PP, EP             |             |   | 0                           |            |
| 2447             | PHOSPHORUS, WHITE, MOLTEN  | 4.2      | ST3                 | I             | 4.2+6.1   | 802                | LQ0                             | E0                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2448             | SULPHUR, MOLTEN  | 4.1      | F3                  | III           | 4.1       | 538                | LQ0                             | E0                 | PP                 |             |   | 0                           |            |
| 2451             | NITROGEN TRIFLUORIDE   | 2        | 20                  |               | 2.2+5.1   |                    | LQ0                             | E0                 | PP                 |             |   | 0                           |            |
| 2452             | ETHYLACETYLENE, STABILIZED   | 2        | 2F                  |               | 2.1       |                    | LQ0                             | E0                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2453             | ETHYL FLUORIDE (REFRIGERANT GAS R.161)   | 2        | 2F                  |               | 2.1       |                    | LQ0                             | E0                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2454             | METHYL FLUORIDE (REFRIGERANT GAS R.41)   | 2        | 2F                  |               | 2.1       |                    | LQ0                             | E0                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2455             | METHYL NITRIDE   | 2        | 2A                  |               |           |                    |                                 |                    |                    |             |   |                             |            |
| 2456             | 2-CHLOROPROPENE  | 3        | F1                  | I             | 3         |                    | LQ3                             | E3                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2457             | 2,3-DIMETHYLBUTANE   | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2458             | HEXADIENES   | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2459             | 2-METHYL-1-BUTENE  | 3        | F1                  | I             | 3         |                    | LQ3                             | E3                 | PP, EX, A          | VE01        |   | 1                           |            |
| 2460             | 2-METHYL-2-BUTENE  | 3        | F1                  | II            | 3         |                    | LQ4                             | E2                 | PP, EX, A          | VE01        |   | 1                           |            |

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| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a) 3.5.1.2 (7b)         | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 2461             | METHYLPENTADIENE   | 3        | F1                  | II            | 3         |                    | LQ4                             |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2463             | ALUMINIUM HYDRIDE  | 4.3      | W2                  | I             | 4.3       |                    | LQ0                             |                    | PP, EX, A          | VE01        | HA08  | 0                           |            |
| 2464             | BERYLLIUM NITRATE  | 5.1      | OT2                 | II            | 5.1+6.1   | 802                | LQ11                            |                    | PP                 |             |   | 2                           |            |
| 2465             | DICHLOROISOCYANURIC ACID, DRY or DICHLOROISOCYANURIC ACID SALTS                        | 5.1      | O2                  | II            | 5.1       | 135                | LQ11                            |                    | PP                 |             |   | 0                           |            |
| 2466             | POTASSIUM SUPEROXIDE   | 5.1      | O2                  | I             | 5.1       |                    | LQ0                             |                    | PP                 |             |   | 0                           |            |
| 2468             | TRICHLOROISOCYANURIC ACID, DRY   | 5.1      | O2                  | II            | 5.1       |                    | LQ11                            |                    | PP                 |             |   | 0                           |            |
| 2469             | ZINC BROMATE   | 5.1      | O2                  | III           | 5.1       |                    | LQ12                            |                    | PP                 |             |   | 0                           |            |
| 2470             | PHENYLACETONITRILE, LIQUID   | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2471             | OSMIUM TETROXIDE   | 6.1      | T5                  | I             | 6.1       | 802                | LQ0                             |                    | PP, EP             |             |   | 2                           |            |
| 2473             | SODIUM ARSANILATE  | 6.1      | T3                  | III           | 6.1       | 802                | LQ9                             |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2474             | THIOPHOSGENE   | 6.1      | T1                  | II            | 6.1       | 279 802            | LQ17                            |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2475             | VANADIUM TRICHLORIDE   | 8        | C2                  | III           | 8         |                    | LQ24                            |                    | PP, EP             |             |   | 0                           |            |
| 2477             | METHYL ISOTHIOCYANATE  | 6.1      | TF1                 | I             | 6.1+3     | 802                | LQ0                             | T                  | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2478             | ISOCYANATES, FLAMMABLE, TOXIC, N.O.S. or ISOCYANATE SOLUTION, FLAMMABLE, TOXIC, N.O.S. | 3        | FT1                 | II            | 3+6.1     | 274 539 802        | LQ0                             |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2478             | ISOCYANATES, FLAMMABLE, TOXIC, N.O.S. or ISOCYANATE SOLUTION, FLAMMABLE, TOXIC, N.O.S. | 3        | FT1                 | III           | 3+6.1     | 274 802            | LQ7                             |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 0                           |            |
| 2480             | METHYL ISOCYANATE  | 6.1      | TF1                 | I             | 6.1+3     | 802                | LQ0                             |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2481             | ETHYL ISOCYANATE   | 3        | FT1                 | I             | 3+6.1     | 802                | LQ0                             |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2482             | n-PROPYL ISOCYANATE  | 6.1      | TF1                 | I             | 6.1+3     | 802                | LQ0                             |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2483             | ISOPROPYL ISOCYANATE   | 3        | FT1                 | I             | 3+6.1     | 802                | LQ0                             |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2484             | tert-BUTYL ISOCYANATE  | 6.1      | TF1                 | I             | 6.1+3     | 802                | LQ0                             |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2485             | n-BUTYL ISOCYANATE   | 6.1      | TF1                 | I             | 6.1+3     | 802                | LQ0                             |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2486             | ISOBUTYL ISOCYANATE  | 3        | FT1                 | II            | 3+6.1     | 802                | LQ0                             | T                  | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2487             | PHENYL ISOCYANATE  | 6.1      | TF1                 | I             | 6.1+3     | 802                | LQ0                             | T                  | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2488             | CYCLOHEXYL ISOCYANATE  | 6.1      | TF1                 | I             | 6.1+3     | 802                | LQ0                             |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2490             | DICHLOROISOPROPYL ETHER  | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | T                  | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2491             | ETHANOLAMINE or ETHANOLAMINE SOLUTION  | 8        | C7                  | III           | 8         |                    | LQ7                             | T                  | PP, EP             |             |   | 0                           |            |

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| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13)  |
| 2493             | HEXAMETHYLENEMINE                                    | 3        | FC                  | II            | 3+8       |                    | LQ4                             | T                  | PP, EP, EX, A      | VE01        |   | 1                           |   |
| 2495             | IODINE PENTAFLOURIDE                                 | 5.1      | OTC                 | I             | 5.1+6.1+8 | 802                | LQ0                             |                    | PP, EP, TOX, A     | VE02        |   | 2                           |   |
| 2496             | PROPIONIC ANHYDRIDE                                  | 8        | C3                  | III           | 8         |                    | LQ7                             | T                  | PP, EP             |             |   | 0                           |   |
| 2498             | 1,2,3,6-TETRAHYDROBENZALDEHYDE                       | 3        | F1                  | III           | 3         |                    | LQ7                             |                    | PP, EX, A          | VE01        |   | 0                           |   |
| 2501             | TRIS-(1-AZIRIDINYL) PHOSPHINE OXIDE SOLUTION         | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            |                    | PP, EP, TOX, A     | VE02        |   | 2                           |   |
| 2501             | TRIS-(1-AZIRIDINYL) PHOSPHINE OXIDE SOLUTION         | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             |                    | PP, EP, TOX, A     | VE02        |   | 0                           |   |
| 2502             | VALERYL CHLORIDE                                     | 8        | CF1                 | II            | 8+3       |                    | LQ22                            |                    | PP, EP, EX, A      | VE01        |   | 1                           |   |
| 2503             | ZIRCONIUM TETRACHLORIDE                              | 8        | C2                  | III           | 8         |                    | LQ24                            |                    | PP, EP             |             |   | 0                           |   |
| 2504             | TETRABROMOETHANE                                     | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             |                    | PP, EP, TOX, A     | VE02        |   | 0                           |   |
| 2505             | AMMONIUM FLUORIDE                                    | 6.1      | T5                  | III           | 6.1       | 802                | LQ9                             | B                  | PP, EP             |             |   | 0                           |   |
| 2506             | AMMONIUM HYDROGEN SULPHATE                           | 8        | C2                  | II            | 8         |                    | LQ23                            | B                  | PP, EP             |             | CO03  | 0                           | CO03 applies only when this substance is carried in bulk or without packaging |
| 2507             | CHLOROPLATINIC ACID, SOLID                           | 8        | C2                  | III           | 8         |                    | LQ24                            |                    | PP, EP             |             |   | 0                           |   |
| 2508             | MOLYBDENUM PENTACHLORIDE                             | 8        | C2                  | III           | 8         |                    | LQ24                            |                    | PP, EP             |             |   | 0                           |   |
| 2509             | POTASSIUM HYDROGEN SULPHATE                          | 8        | C2                  | II            | 8         |                    | LQ23                            | B                  | PP, EP             |             | CO03  | 0                           | CO03 applies only when this substance is carried in bulk or without packaging |
| 2511             | 2-CHLOROPROPIONIC ACID                               | 8        | C3                  | III           | 8         |                    | LQ7                             |                    | PP, EP             |             |   | 0                           |   |
| 2512             | AMINOPHENOLS (o-, m-, p-)                            | 6.1      | T2                  | III           | 6.1       | 279                | LQ9                             |                    | PP, EP             |             |   | 0                           |   |
| 2513             | BROMOACETYL BROMIDE                                  | 8        | C3                  | II            | 8         | 802                | LQ22                            |                    | PP, EP             |             |   | 0                           |   |
| 2514             | BROMOBENZENE   | 3        | F1                  | III           | 3         |                    | LQ7                             |                    | PP, EX, A          | VE01        |   | 0                           |   |
| 2515             | BROMOFORM  | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             |                    | PP, EP, TOX, A     | VE02        |   | 0                           |   |
| 2516             | CARBON TETRABROMIDE                                  | 6.1      | T2                  | III           | 6.1       | 802                | LQ9                             |                    | PP, EP             |             |   | 0                           |   |
| 2517             | 1-CHLORO-1,1-DIFLUOROETHANE (REFRIGERANT GAS R 142b) | 2        | 2F                  |               | 2.1       |                    | LQ0                             |                    | PP, EX, A          | VE01        |   | 1                           |   |
| 2518             | 1,5,9-CYCLODODECATRIENE                              | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | T                  | PP, EP, TOX, A     | VE02        |   | 0                           |   |
| 2520             | CYCLOOCTADIENES                                      | 3        | F1                  | III           | 3         |                    | LQ7                             |                    | PP, EX, A          | VE01        |   | 0                           |   |
| 2521             | DIKETENE, STABILIZED                                 | 6.1      | TF1                 | I             | 6.1+3     | 802                | LQ0                             |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |   |
| 2522             | 2-DIMETHYLAMINOETHYL METHACRYLATE                    | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            |                    | PP, EP, TOX, A     | VE02        |   | 2                           |   |
| 2524             | ETHYL ORTHOFORMATE                                   | 3        | F1                  | III           | 3         |                    | LQ7                             |                    | PP, EX, A          | VE01        |   | 0                           |   |
| 2525             | ETHYL OXALATE  | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             |                    | PP, EP, TOX, A     | VE02        |   | 0                           |   |
| 2526             | FURFURYLAMINE  | 3        | FC                  | III           | 3+8       |                    | LQ7                             |                    | PP, EP, EX, A      | VE01        |   | 0                           |   |
| 2527             | ISOBUTYL ACRYLATE, STABILIZED                        | 3        | F1                  | III           | 3         |                    | LQ7                             | T                  | PP, EX, A          | VE01        |   | 0                           |   |

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|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 2528             | ISOBUTYL ISOBUTYRATE  | 3        | F1                  | III           | 3         |                    | LQ7                             | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 2529             | ISOBUTYRIC ACID   | 3        | FC                  | III           | 3+8       |                    | LQ7                             |                    | PP, EP, EX, A      | VE01        |   | 0                           |            |
| 2531             | METHACRYLIC ACID, STABILIZED  | 8        | C3                  | II            | 8         |                    | LQ22                            | T                  | PP, EP             | VE02        |   | 0                           |            |
| 2533             | METHYL TRICHLOROACETATE   | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2534             | METHYLCHLOROSILANE  | 2        | 2TFC                |               | 2.3+2.1+8 |                    | LQ0                             |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2535             | 4-METHYLMORPHOLINE (N-METHYLMORPHOLINE)   | 3        | FC                  | II            | 3+8       |                    | LQ4                             |                    | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 2536             | METHYL-TETRAHYDROFURAN  | 3        | F1                  | II            | 3         |                    | LQ4                             |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2538             | NITRONAPHTHALENE  | 4.1      | F1                  | III           | 4.1       |                    | LQ9                             |                    | PP                 |             |   | 0                           |            |
| 2541             | TERPINOLENE   | 3        | F1                  | III           | 3         |                    | LQ7                             |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 2542             | TRIBUTYLAMINE   | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2545             | HAFNIUM POWDER, DRY   | 4.2      | S4                  | I             | 4.2       | 540                | LQ0                             |                    | PP                 |             |   | 0                           |            |
| 2545             | HAFNIUM POWDER, DRY   | 4.2      | S4                  | II            | 4.2       | 540                | LQ0                             |                    | PP                 |             |   | 0                           |            |
| 2545             | HAFNIUM POWDER, DRY   | 4.2      | S4                  | III           | 4.2       | 540                | LQ0                             |                    | PP                 |             |   | 0                           |            |
| 2546             | TITANIUM POWDER, DRY  | 4.2      | S4                  | I             | 4.2       | 540                | LQ0                             |                    | PP                 |             |   | 0                           |            |
| 2546             | TITANIUM POWDER, DRY  | 4.2      | S4                  | II            | 4.2       | 540                | LQ0                             |                    | PP                 |             |   | 0                           |            |
| 2546             | TITANIUM POWDER, DRY  | 4.2      | S4                  | III           | 4.2       | 540                | LQ0                             |                    | PP                 |             |   | 0                           |            |
| 2547             | SODIUM SUPEROXIDE   | 5.1      | O2                  | I             | 5.1       |                    | LQ0                             |                    | PP                 |             |   | 0                           |            |
| 2548             | CHLORINE PENTAFLUORIDE  | 2        | 2TOC                |               | 2.3+5.1+8 |                    | LQ0                             |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2552             | HEXAFLUOROACETONE HYDRATE, LIQUID   | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2554             | METHYLALYL CHLORIDE   | 3        | F1                  | II            | 3         |                    | LQ4                             |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2555             | NITROCELLULOSE WITH WATER (not less than 25% water, by mass)  | 4.1      | D                   | II            | 4.1       | 541                | LQ0                             |                    | PP                 |             |   | 0                           |            |
| 2556             | NITROCELLULOSE WITH ALCOHOL (not less than 25% alcohol, by mass, and not more than 12.6% nitrogen, by dry mass)   | 4.1      | D                   | II            | 4.1       | 541                | LQ0                             |                    | PP                 |             |   | 0                           |            |
| 2557             | NITROCELLULOSE WITH ALCOHOL (not less than 25% alcohol, by mass, and not more than 12.6% nitrogen, by dry mass), MIXTURE WITH or WITHOUT PLASTICIZER, WITH or WITHOUT PIGMENT | 4.1      | D                   | II            | 4.1       | 241<br>541         | LQ0                             |                    | PP                 |             |   | 0                           |            |
| 2558             | EPIBROMOHYDRIN  | 6.1      | TF1                 | I             | 6.1+3     | 802                | LQ0                             |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2560             | 2-METHYLPENTAN-2-OL   | 3        | F1                  | III           | 3         |                    | LQ7                             |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 2561             | 3-METHYL-1-BUTENE   | 3        | F1                  | I             | 3         |                    | LQ3                             |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2564             | TRICHLOROACETIC ACID SOLUTION   | 8        | C3                  | II            | 8         |                    | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 2564             | TRICHLOROACETIC ACID SOLUTION   | 8        | C3                  | III           | 8         |                    | LQ7                             | T                  | PP, EP             |             |   | 0                           |            |
| 2565             | DICYCLOHEXYLAMINE   | 8        | C7                  | III           | 8         |                    | LQ7                             |                    | PP, EP             |             |   | 0                           |            |
| 2567             | SODIUM PENTACHLOROPHENATE   | 6.1      | T2                  | II            | 6.1       | 802                | LQ18                            |                    | PP, EP             |             |   | 2                           |            |
| 2570             | CADMIUM COMPOUND  | 6.1      | T5                  | I             | 6.1       | 274<br>596<br>802  | LQ0                             |                    | PP, EP             |             |   | 2                           |            |

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| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)                 | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 2570             | CADMIUM COMPOUND  | 6.1      | T5                  | II            | 6.1       | 274<br>596<br>802       | LQ18                            |                    | PP, EP             |             |   | 2                           |            |
| 2570             | CADMIUM COMPOUND  | 6.1      | T5                  | III           | 6.1       | 274<br>596<br>802       | LQ9                             |                    | PP, EP             |             |   | 0                           |            |
| 2571             | ALKYLSULPHURIC ACIDS  | 8        | C3                  | II            | 8         | 802                     | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 2572             | PHENYLHYDRAZINE   | 6.1      | T1                  | II            | 6.1       | 802                     | LQ17                            |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2573             | THALLIUM CHLORATE   | 5.1      | OT2                 | II            | 5.1+6.1   | 802                     | LQ11                            |                    | PP                 |             |   | 2                           |            |
| 2574             | TRICRESYL PHOSPHATE with more than 3% ortho isomer  | 6.1      | T1                  | II            | 6.1       | 802                     | LQ17                            | T                  | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2576             | PHOSPHORUS OXYBROMIDE, MOLTEN   | 8        | C1                  | II            | 8         |                         | LQ0                             |                    | PP, EP             |             |   | 0                           |            |
| 2577             | PHENYLACETYL CHLORIDE   | 8        | C3                  | II            | 8         |                         | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 2578             | PHOSPHORUS TRIOXIDE   | 8        | C2                  | III           | 8         |                         | LQ24                            |                    | PP, EP             |             |   | 0                           |            |
| 2579             | PIPERAZINE  | 8        | C8                  | III           | 8         |                         | LQ24                            | T                  | PP, EP             |             |   | 0                           |            |
| 2580             | ALUMINIUM BROMIDE SOLUTION  | 8        | C1                  | III           | 8         |                         | LQ7                             |                    | PP, EP             |             |   | 0                           |            |
| 2581             | ALUMINIUM CHLORIDE SOLUTION   | 8        | C1                  | III           | 8         |                         | LQ7                             |                    | PP, EP             |             |   | 0                           |            |
| 2582             | FERRIC CHLORIDE SOLUTION  | 8        | C1                  | III           | 8         |                         | LQ7                             |                    | PP, EP             |             |   | 0                           |            |
| 2583             | ALKYLSULPHONIC ACIDS, SOLID or ARYLSULPHONIC ACIDS, SOLID with more than 5% free sulphuric acid       | 8        | C2                  | II            | 8         | 274                     | LQ23                            |                    | PP, EP             |             |   | 0                           |            |
| 2584             | ALKYLSULPHONIC ACIDS, LIQUID or ARYLSULPHONIC ACIDS, LIQUID with more than 5% free sulphuric acid     | 8        | C1                  | II            | 8         | 274                     | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 2585             | ALKYLSULPHONIC ACIDS, SOLID or ARYLSULPHONIC ACIDS, SOLID with not more than 5% free sulphuric acid   | 8        | C4                  | III           | 8         | 274                     | LQ24                            |                    | PP, EP             |             |   | 0                           |            |
| 2586             | ALKYLSULPHONIC ACIDS, LIQUID or ARYLSULPHONIC ACIDS, LIQUID with not more than 5% free sulphuric acid | 8        | C3                  | III           | 8         | 274                     | LQ7                             | T                  | PP, EP             |             |   | 0                           |            |
| 2587             | BENZOQUINONE  | 6.1      | T2                  | II            | 6.1       | 802                     | LQ18                            |                    | PP, EP             |             |   | 2                           |            |
| 2588             | PESTICIDE, SOLID, TOXIC, N.O.S.   | 6.1      | T7                  | I             | 6.1       | 61<br>274<br>648<br>802 | LQ0                             |                    | PP, EP             |             |   | 2                           |            |
| 2588             | PESTICIDE, SOLID, TOXIC, N.O.S.   | 6.1      | T7                  | II            | 6.1       | 61<br>274<br>648<br>802 | LQ18                            |                    | PP, EP             |             |   | 2                           |            |
| 2588             | PESTICIDE, SOLID, TOXIC, N.O.S.   | 6.1      | T7                  | III           | 6.1       | 61<br>274<br>648<br>802 | LQ9                             |                    | PP, EP             |             |   | 0                           |            |
| 2589             | VINYL CHLOROACETATE   | 6.1      | TF1                 | II            | 6.1+3     | 802                     | LQ17                            |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |

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| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a) 3.5.1.2 (7b)         | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 2590             | WHITE ASBESTOS (chrysotile, actinolite, anthophyllite, tremolite)  | 9        | M1                  | III           | 9         | 168<br>542<br>802  | LQ27<br>E1                      |                    | PP                 |             |   | 0                           |            |
| 2591             | XENON, REFRIGERATED LIQUID   | 2        | 3A                  |               | 2.2       | 593                | LQ1<br>E1                       |                    | PP                 |             |   | 0                           |            |
| 2599             | CHLOROTRIFLUORO-METHANE AND TRIFLUOROMETHANE AZEOTROPIC MIXTURE with approximately 60% chlorotrifluoromethane (REFRIGERANT GAS R 503)    | 2        | 2A                  |               | 2.2       |                    | LQ1<br>E1                       |                    | PP                 |             |   | 0                           |            |
| 2601             | CYCLOBUTANE  | 2        | 2F                  |               | 2.1       |                    | LQ0<br>E0                       |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2602             | DICHLORODIFLUOROMETHANE AND 1,1-DIFLUOROETHANE AZEOTROPIC MIXTURE with approximately 74% dichlorodifluoromethane (REFRIGERANT GAS R 500) | 2        | 2A                  |               | 2.2       |                    | LQ1<br>E1                       |                    | PP                 |             |   | 0                           |            |
| 2603             | CYCLOHEPTADIENE  | 3        | FT1                 | II            | 3+6.1     | 802                | LQ0<br>E2                       |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2604             | BORON TRIFLUORIDE DIETHYL ETHERATE   | 8        | CF1                 | I             | 8+3       |                    | LQ0<br>E0                       |                    | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 2605             | METHOXYMETHYL ISOCYANATE   | 3        | FT1                 | I             | 3+6.1     | 802                | LQ0<br>E0                       |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2606             | METHYL-ORTHOSILICATE   | 6.1      | TF1                 | I             | 6.1+3     | 802                | LQ0<br>E5                       |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2607             | ACROLEIN DIMER, STABILIZED   | 3        | F1                  | III           | 3         |                    | LQ7<br>E1                       |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 2608             | NITROPROPANES  | 3        | F1                  | III           | 3         |                    | LQ7<br>E1                       | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 2609             | TRIALYL BORATE   | 6.1      | T1                  | III           | 6.1       | 802                | LQ7<br>E1                       |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2610             | TRIALLYLAMINE  | 3        | FC                  | III           | 3+8       |                    | LQ7<br>E1                       |                    | PP, EP, EX, A      | VE01        |   | 0                           |            |
| 2611             | PROPYLENE CHLOROXYDRIN   | 6.1      | TF1                 | II            | 6.1+3     | 802                | LQ17<br>E4                      |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2612             | METHYL-PROPYL ETHER  | 3        | F1                  | II            | 3         |                    | LQ4<br>E2                       |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2614             | METHALLYL ALCOHOL  | 3        | F1                  | III           | 3         |                    | LQ7<br>E1                       |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 2615             | ETHYL-PROPYL ETHER   | 3        | F1                  | II            | 3         |                    | LQ4<br>E2                       | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 2616             | TRISOPROPYL BORATE   | 3        | F1                  | II            | 3         |                    | LQ4<br>E2                       |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2616             | TRISOPROPYL BORATE   | 3        | F1                  | III           | 3         |                    | LQ7<br>E1                       |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 2617             | METHYLCYCLOHEXANOLS, flammable   | 3        | F1                  | III           | 3         |                    | LQ7<br>E1                       |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 2618             | VINYLTOLUENES, STABILIZED  | 3        | F1                  | III           | 3         |                    | LQ7<br>E1                       | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 2619             | BENZYLDIMETHYLAMINE  | 8        | CF1                 | II            | 8+3       |                    | LQ22<br>E2                      |                    | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 2620             | AMYL BUTYRATES   | 3        | F1                  | III           | 3         |                    | LQ7<br>E1                       |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 2621             | ACETYL-METHYL CARBINOL   | 3        | F1                  | III           | 3         |                    | LQ7<br>E1                       |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 2622             | GLYCIDALDEHYDE   | 3        | FT1                 | II            | 3+6.1     | 802                | LQ0<br>E2                       |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2623             | FIRELIGHTERS, SOLID with flammable liquid  | 4.1      | F1                  | III           | 4.1       |                    | LQ9<br>E1                       |                    | PP                 |             |   | 0                           |            |
| 2624             | MAGNESIUM SILICIDE   | 4.3      | W2                  | II            | 4.3       |                    | LQ11<br>E2                      |                    | PP, EX, A          | VE01        | HA08  | 0                           |            |
| 2626             | CHLORIC ACID, AQUEOUS SOLUTION with not more than 10% chloric acid   | 5.1      | O1                  | II            | 5.1       | 613                | LQ10<br>E2                      |                    | PP                 |             |   | 0                           |            |

| UN No. or ID No. | Name and description        | Class    | Classification Code | Packing group | Labels    | Special provisions | Limited and excepted quantities | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage | Number of blue cones/lights | Remarks    |
|------------------|-----------------------------|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)                   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 2627             | NITRITES, INORGANIC, N.O.S. | 5.1      | O2                  | II            | 5.1       | 103                | LQ11                            | E2                 | PP                 |             |   | 0                           |            |
| 2628             | POTASSIUM FLUOROACETATE     | 6.1      | T2                  | I             | 6.1       | 802                | LQ0                             | E5                 | PP, EP             |             |   | 2                           |            |
| 2629             | SODIUM FLUOROACETATE        | 6.1      | T2                  | I             | 6.1       | 802                | LQ0                             | E5                 | PP, EP             |             |   | 2                           |            |
| 2630             | SELENATES or SELENITES      | 6.1      | T5                  | I             | 6.1       | 274                | LQ0                             | E5                 | PP, EP             |             |   | 2                           |            |
| 2642             | FLUOROACETIC ACID           | 6.1      | T2                  | I             | 6.1       | 802                | LQ0                             | E5                 | PP, EP             |             |   | 2                           |            |
| 2643             | METHYL BROMOACETATE         | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2644             | METHYL IODIDE               | 6.1      | T1                  | I             | 6.1       | 802                | LQ0                             | E5                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2645             | PHENACYL BROMIDE            | 6.1      | T2                  | II            | 6.1       | 802                | LQ18                            | E4                 | PP, EP             |             |   | 2                           |            |
| 2646             | HEXACHLOROCYCLOPENTADIENE   | 6.1      | T1                  | I             | 6.1       | 802                | LQ0                             | E5                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2647             | MALONONITRILE               | 6.1      | T2                  | II            | 6.1       | 802                | LQ18                            | E4                 | PP, EP             |             |   | 2                           |            |
| 2648             | 1,2-DIBROMOBUTAN-3-ONE      | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2649             | 1,3-DICHLOROACETONE         | 6.1      | T2                  | II            | 6.1       | 802                | LQ18                            | E4                 | PP, EP             |             |   | 2                           |            |
| 2650             | 1,1-DICHLORO-1-NITROETHANE  | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2651             | 4,4'-DIAMINODIPHENYLMETHANE | 6.1      | T2                  | III           | 6.1       | 802                | LQ9                             | E1                 | PP, EP             |             |   | 0                           |            |
| 2653             | BENZYL IODIDE               | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2655             | POTASSIUM FLUOROSILICATE    | 6.1      | T5                  | III           | 6.1       | 802                | LQ9                             | E1                 | PP, EP             |             |   | 0                           |            |
| 2656             | QUINOLINE                   | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1                 | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2657             | SELENIUM DISULPHIDE         | 6.1      | T5                  | II            | 6.1       | 802                | LQ18                            | E4                 | PP, EP             |             |   | 2                           |            |
| 2659             | SODIUM CHLOROACETATE        | 6.1      | T2                  | III           | 6.1       | 802                | LQ9                             | E1                 | PP, EP             |             |   | 0                           |            |
| 2660             | NITROTOLUIDINES (MONO)      | 6.1      | T2                  | III           | 6.1       | 802                | LQ9                             | E1                 | PP, EP             |             |   | 0                           |            |
| 2661             | HEXACHLOROACETONE           | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1                 | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2664             | DIBROMOMETHANE              | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1                 | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2667             | BUTYL TOLUENES              | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1                 | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2668             | CHLOROACETONITRILE          | 6.1      | TF1                 | II            | 6.1+3     | 802                | LQ17                            | E4                 | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2669             | CHLOROCRESOLS, SOLUTION     | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2669             | CHLOROCRESOLS, SOLUTION     | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1                 | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2670             | CYANURIC CHLORIDE           | 8        | C4                  | II            | 8         |                    | LQ23                            | E2                 | PP, EP             |             |   | 0                           |            |
| 2671             | AMINOPYRIDINES (o-, m-, p-) | 6.1      | T2                  | II            | 6.1       | 802                | LQ18                            | E4                 | PP, EP             |             |   | 2                           |            |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |  |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (10)  | 7.1.6 (11) |                             |         |
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 2672             | AMMONIA SOLUTION, relative density between 0.880 and 0.957 at 15 °C in water, with more than 10% but not more than 35% ammonia | 8        | C5                  | III           | 8         | 543                | LQ7                             | E1           | T                  | PP, EP             |             |   | 0          | 3.2.1 (13)                  |         |
| 2673             | 2-AMINO-4-CHLOROPHENOL   | 6.1      | T2                  | II            | 6.1       | 802                | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 2674             | SODIUM FLUOROSILICATE  | 6.1      | T5                  | III           | 6.1       | 802                | LQ9                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 2676             | STIBINE  | 2        | 2TF                 |               | 2.3+2.1   |                    | LQ0                             | E0           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 2677             | RUBIDIUM HYDROXIDE SOLUTION  | 8        | C5                  | II            | 8         |                    | LQ22                            | E2           |                    | PP, EP             |             |   | 0          |                             |         |
| 2677             | RUBIDIUM HYDROXIDE SOLUTION  | 8        | C5                  | III           | 8         |                    | LQ7                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 2678             | RUBIDIUM HYDROXIDE   | 8        | C6                  | II            | 8         |                    | LQ23                            | E2           |                    | PP, EP             |             |   | 0          |                             |         |
| 2679             | LITHIUM HYDROXIDE SOLUTION   | 8        | C5                  | II            | 8         |                    | LQ22                            | E2           |                    | PP, EP             |             |   | 0          |                             |         |
| 2679             | LITHIUM HYDROXIDE SOLUTION   | 8        | C5                  | III           | 8         |                    | LQ7                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 2680             | LITHIUM HYDROXIDE  | 8        | C6                  | II            | 8         |                    | LQ23                            | E2           |                    | PP, EP             |             |   | 0          |                             |         |
| 2681             | CAESIUM HYDROXIDE SOLUTION   | 8        | C5                  | II            | 8         |                    | LQ22                            | E2           |                    | PP, EP             |             |   | 0          |                             |         |
| 2681             | CAESIUM HYDROXIDE SOLUTION   | 8        | C5                  | III           | 8         |                    | LQ7                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 2682             | CAESIUM HYDROXIDE  | 8        | C6                  | II            | 8         |                    | LQ23                            | E2           |                    | PP, EP             |             |   | 0          |                             |         |
| 2683             | AMMONIUM SULPHIDE SOLUTION   | 8        | CFT                 | II            | 8+3+6.1   | 802                | LQ22                            | E2           | T                  | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 2684             | 3-DIETHYLAMINOPROPYLAMINE  | 3        | FC                  | III           | 3+8       |                    | LQ7                             | E1           |                    | PP, EP, EX, A      | VE01        |   | 0          |                             |         |
| 2685             | N,N-DIETHYLETHYLENEDIAMINE   | 8        | CF1                 | II            | 8+3       |                    | LQ22                            | E2           |                    | PP, EP, EX, A      | VE01        |   | 1          |                             |         |
| 2686             | 2-DIETHYLAMINOETHANOL  | 8        | CF1                 | II            | 8+3       |                    | LQ22                            | E2           |                    | PP, EP, EX, A      | VE01        |   | 1          |                             |         |
| 2687             | DICYCLOHEXYLAMMONIUM NITRITE   | 4.1      | F3                  | III           | 4.1       |                    | LQ9                             | E1           |                    | PP                 |             |   | 0          |                             |         |
| 2688             | 1-BROMO-3-CHLOROPROPANE  | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0          |                             |         |
| 2689             | GLYCEROL alpha-MONOCHLOROHYDRIN  | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1           |                    | A                  | VE02        |   | 0          |                             |         |
| 2690             | N,n-BUTYLIMIDAZOLE   | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4           |                    | A                  | VE02        |   | 2          |                             |         |
| 2691             | PHOSPHORUS PENTABROMIDE  | 8        | C2                  | II            | 8         |                    | LQ23                            | E2           |                    | PP, EP             |             |   | 0          |                             |         |
| 2692             | BORON TRIBROMIDE   | 8        | C1                  | I             | 8         |                    | LQ0                             | E0           |                    | PP, EP             |             |   | 0          |                             |         |
| 2693             | BISULPHITES, AQUEOUS SOLUTION, N.O.S.  | 8        | C1                  | III           | 8         | 274                | LQ7                             | E1           | T                  | PP, EP             |             |   | 0          |                             |         |
| 2698             | TETRAHYDROPHTHALIC ANHYDRIDES with more than 0.05% of maleic anhydride   | 8        | C4                  | III           | 8         | 169                | LQ24                            | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 2699             | TRIFLUOROACETIC ACID   | 8        | C3                  | I             | 8         |                    | LQ0                             | E0           |                    | PP, EP             |             |   | 0          |                             |         |
| 2705             | 1-PENTOL   | 8        | C9                  | II            | 8         |                    | LQ22                            | E2           |                    | PP, EP             |             |   | 0          |                             |         |
| 2707             | DIMETHYLDIOXANES   | 3        | F1                  | II            | 3         |                    | LQ4                             | E2           |                    | PP, EX, A          | VE01        |   | 1          |                             |         |
| 2707             | DIMETHYLDIOXANES   | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           |                    | PP, EX, A          | VE01        |   | 0          |                             |         |
| 2709             | BUTYLBENZENES  | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           | T                  | PP, EX, A          | VE01        |   | 0          |                             |         |
| 2710             | DIPROPYL KETONE  | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           |                    | PP, EX, A          | VE01        |   | 0          |                             |         |
| 2713             | ACRIDINE   | 6.1      | T2                  | III           | 6.1       | 802                | LQ9                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 2714             | ZINC RESINATE  | 4.1      | F3                  | III           | 4.1       |                    | LQ9                             | E1           |                    | PP                 |             |   | 0          |                             |         |
| 2715             | ALUMINIUM RESINATE   | 4.1      | F3                  | III           | 4.1       |                    | LQ9                             | E1           |                    | PP                 |             |   | 0          |                             |         |
| 2716             | 1,4-BUTYNEDIOL   | 6.1      | T2                  | III           | 6.1       | 802                | LQ9                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 2717             | CAMPHOR, synthetic   | 4.1      | F1                  | III           | 4.1       |                    | LQ9                             | E1           |                    | PP                 |             |   | 0          |                             |         |



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|------------------|--|-------|---------------------|---------------|---------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|--|
| (1)              | 3.1.2  | 2.2   | 2.2                 | 2.1.1.3       | 5.2.2   | 3.3                | 3.4.6                           | 3.2.1              | 8.1.5              | 7.1.6       | 7.1.6   | 7.1.5                       | 3.2.1  |
|                  | (2)  | (3a)  | (3b)                | (4)           | (5)     | (6)                | (7a)                            | (8)                | (9)                | (10)        | (11)  | (12)                        | (13)   |
| 2719             | BARIUM BROMATE   | 5.1   | OT2                 | II            | 5.1+6.1 | 802                | LQ11                            | B                  | PP                 |             | CO02, LO04  | 2                           | CO02 and LO04 apply only when this substance is carried in bulk or without packaging |
| 2720             | CHROMIUM NITRATE   | 5.1   | O2                  | III           | 5.1     |                    | LQ12                            | E1                 | PP                 |             |   | 0                           | CO02 and LO04 apply only when this substance is carried in bulk or without packaging |
| 2721             | COPPER CHLORATE  | 5.1   | O2                  | II            | 5.1     |                    | LQ11                            | E2                 | PP                 |             |   | 0                           | CO02 and LO04 apply only when this substance is carried in bulk or without packaging |
| 2722             | LITHIUM NITRATE  | 5.1   | O2                  | III           | 5.1     |                    | LQ12                            | E1                 | PP                 |             | CO02, LO04  | 0                           | CO02 and LO04 apply only when this substance is carried in bulk or without packaging |
| 2723             | MAGNESIUM CHLORATE   | 5.1   | O2                  | II            | 5.1     |                    | LQ11                            | E2                 | PP                 |             |   | 0                           | CO02 and LO04 apply only when this substance is carried in bulk or without packaging |
| 2724             | MANGANESE NITRATE  | 5.1   | O2                  | III           | 5.1     |                    | LQ12                            | E1                 | PP                 |             | CO02, LO04  | 0                           | CO02 and LO04 apply only when this substance is carried in bulk or without packaging |
| 2725             | NICKEL NITRATE   | 5.1   | O2                  | III           | 5.1     |                    | LQ12                            | E1                 | PP                 |             | CO02, LO04  | 0                           | CO02 and LO04 apply only when this substance is carried in bulk or without packaging |
| 2726             | NICKEL NITRITE   | 5.1   | O2                  | III           | 5.1     |                    | LQ12                            | E1                 | PP                 |             |   | 0                           | CO02 and LO04 apply only when this substance is carried in bulk or without packaging |
| 2727             | THALLIUM NITRATE   | 6.1   | TO2                 | II            | 6.1+5.1 | 802                | LQ18                            | E4                 | PP, EP             |             |   | 2                           | CO02 and LO04 apply only when this substance is carried in bulk or without packaging |
| 2728             | ZIRCONIUM NITRATE  | 5.1   | O2                  | III           | 5.1     |                    | LQ12                            | E1                 | PP                 |             | CO02, LO04  | 0                           | CO02 and LO04 apply only when this substance is carried in bulk or without packaging |
| 2729             | HEXACHLOROBENZENE  | 6.1   | T2                  | III           | 6.1     | 802                | LQ9                             | E1                 | PP, EP             |             |   | 0                           | CO02 and LO04 apply only when this substance is carried in bulk or without packaging |
| 2730             | NITROANISOLE, LIQUID   | 6.1   | T1                  | III           | 6.1     | 279                | LQ7                             | E1                 | PP, EP, TOX, A     | VE02        |   | 0                           | CO02 and LO04 apply only when this substance is carried in bulk or without packaging |
| 2732             | NITROBROMOBENZENES, LIQUID   | 6.1   | T1                  | III           | 6.1     | 802                | LQ7                             | E1                 | PP, EP, TOX, A     | VE02        |   | 0                           | CO02 and LO04 apply only when this substance is carried in bulk or without packaging |
| 2733             | AMINES, FLAMMABLE, CORROSIVE, N.O.S. or POLYAMINES, FLAMMABLE, CORROSIVE, N.O.S. | 3     | FC                  | I             | 3+8     | 274                | LQ3                             | E0                 | PP, EP, EX, A      | VE01        |   | 1                           | CO02 and LO04 apply only when this substance is carried in bulk or without packaging |
| 2733             | AMINES, FLAMMABLE, CORROSIVE, N.O.S. or POLYAMINES, FLAMMABLE, CORROSIVE, N.O.S. | 3     | FC                  | II            | 3+8     | 274                | LQ4                             | E2                 | PP, EP, EX, A      | VE01        |   | 1                           | CO02 and LO04 apply only when this substance is carried in bulk or without packaging |
| 2733             | AMINES, FLAMMABLE, CORROSIVE, N.O.S. or POLYAMINES, FLAMMABLE, CORROSIVE, N.O.S. | 3     | FC                  | III           | 3+8     | 274                | LQ7                             | E1                 | PP, EP, EX, A      | VE01        |   | 0                           | CO02 and LO04 apply only when this substance is carried in bulk or without packaging |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |  |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (10)  | 7.1.6 (11) |                             |         |
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 2734             | AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. | 8        | CF1                 | I             | 8+3       | 274                | LQ0                             | E0           |                    | PP, EP, EX, A      | VE01        |   | 1          |                             |         |
| 2734             | AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. | 8        | CF1                 | II            | 8+3       | 274                | LQ22                            | E2           |                    | PP, EP, EX, A      | VE01        |   | 1          |                             |         |
| 2735             | AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.                       | 8        | C7                  | I             | 8         | 274                | LQ0                             | E0           | T                  | PP, EP             |             |   | 0          |                             |         |
| 2735             | AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.                       | 8        | C7                  | II            | 8         | 274                | LQ22                            | E2           | T                  | PP, EP             |             |   | 0          |                             |         |
| 2735             | AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.                       | 8        | C7                  | III           | 8         | 274                | LQ7                             | E1           | T                  | PP, EP             |             |   | 0          |                             |         |
| 2738             | N-BUTYLANILINE   | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 2739             | BUTYRIC ANHYDRIDE  | 8        | C3                  | III           | 8         |                    | LQ7                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 2740             | n-PROPYL CHLOROFORMATE   | 6.1      | TFC                 | I             | 6.1+3+8   | 802                | LQ0                             | E5           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 2741             | BARIUM HYPOCHLORITE with more than 22% available chlorine  | 5.1      | OT2                 | II            | 5.1+6.1   | 802                | LQ11                            | E2           |                    | PP                 |             |   | 2          |                             |         |
| 2742             | CHLOROFORMATES, TOXIC, CORROSIVE, FLAMMABLE, N.O.S.  | 6.1      | TFC                 | II            | 6.1+3+8   | 274<br>561<br>802  | LQ17                            | E4           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 2743             | n-BUTYL CHLOROFORMATE  | 6.1      | TFC                 | II            | 6.1+3+8   | 802                | LQ17                            | E4           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 2744             | CYCLOBUTYL CHLOROFORMATE   | 6.1      | TFC                 | II            | 6.1+3+8   | 802                | LQ17                            | E4           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 2745             | CHLOROMETHYL CHLOROFORMATE   | 6.1      | TC1                 | II            | 6.1+8     | 802                | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 2746             | PHENYL CHLOROFORMATE   | 6.1      | TC1                 | II            | 6.1+8     | 802                | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 2747             | tert-BUTYL CYCLOHEXYL CHLOROFORMATE  | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0          |                             |         |
| 2748             | 2-ETHYLHEXYL CHLOROFORMATE   | 6.1      | TC1                 | II            | 6.1+8     | 802                | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 2749             | TETRAMETHYLSILANE  | 3        | F1                  | I             | 3         |                    | LQ3                             | E3           |                    | PP, EX, A          | VE01        |   | 1          |                             |         |
| 2750             | 1,3-DICHLOROPROPANOL-2   | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 2751             | DIETHYLTHIOPHOSPHORYL CHLORIDE   | 8        | C3                  | II            | 8         |                    | LQ22                            | E2           |                    | PP, EP             |             |   | 0          |                             |         |
| 2752             | 1,2-EPOXY-3-ETHOXYPROPANE  | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           |                    | PP, EX, A          | VE01        |   | 0          |                             |         |
| 2753             | N-ETHYLBENZYL TOLUIDINES, LIQUID   | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0          |                             |         |
| 2754             | N-ETHYL TOLUIDINES   | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4           | T                  | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |

| UN No. or ID No. | Name and description   | Class           | Classification Code | Packing group    | Labels           | Special provisions                 | Limited and excepted quantities |                    | Carriage permitted | Equipment required  | Ventilation | Provisions concerning loading, unloading and carriage |                 | Number of blue cones/lights | Remarks |
|------------------|--|-----------------|---------------------|------------------|------------------|------------------------------------|---------------------------------|--------------------|--------------------|---------------------|-------------|---|-----------------|-----------------------------|---------|
|                  |  |                 |                     |                  |                  |                                    | 3.4.6 (7a)                      | 3.5.1.2 (7b)       |                    |                     |             | 7.1.6 (11)  | 7.1.6 (12)      |                             |         |
| 2757             | 3.1.2 (2)<br>CARBAMATE PESTICIDE, SOLID, TOXIC                             | 2.2 (3a)<br>6.1 | 2.2 (3b)<br>T7      | 2.1.1.3 (4)<br>I | 5.2.2 (5)<br>6.1 | 3.3 (6)<br>61<br>274<br>648<br>802 | 3.4.6 (7a)<br>LQ0               | 3.5.1.2 (7b)<br>E5 | 3.2.1 (8)          | 8.1.5 (9)<br>PP, EP | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)<br>2 | 3.2.1 (13)                  |         |
| 2757             | CARBAMATE PESTICIDE, SOLID, TOXIC  | 6.1             | T7                  | II               | 6.1              | 61<br>274<br>648<br>802            | LQ18                            | E4                 |                    | PP, EP              |             |   | 2               |                             |         |
| 2757             | CARBAMATE PESTICIDE, SOLID, TOXIC  | 6.1             | T7                  | III              | 6.1              | 61<br>274<br>648<br>802            | LQ9                             | E1                 |                    | PP, EP              |             |   | 0               |                             |         |
| 2758             | CARBAMATE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C | 3               | FT2                 | I                | 3+6.1            | 61<br>274<br>802                   | LQ3                             | E0                 |                    | PP, EP, EX, TOX, A  | VE01, VE02  |   | 2               |                             |         |
| 2758             | CARBAMATE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C | 3               | FT2                 | II               | 3+6.1            | 61<br>274<br>802                   | LQ4                             | E2                 |                    | PP, EP, EX, TOX, A  | VE01, VE02  |   | 2               |                             |         |
| 2759             | ARSENICAL PESTICIDE, SOLID, TOXIC  | 6.1             | T7                  | I                | 6.1              | 61<br>274<br>648<br>802            | LQ0                             | E5                 |                    | PP, EP              |             |   | 2               |                             |         |
| 2759             | ARSENICAL PESTICIDE, SOLID, TOXIC  | 6.1             | T7                  | II               | 6.1              | 61<br>274<br>648<br>802            | LQ18                            | E4                 |                    | PP, EP              |             |   | 2               |                             |         |
| 2759             | ARSENICAL PESTICIDE, SOLID, TOXIC  | 6.1             | T7                  | III              | 6.1              | 61<br>274<br>648<br>802            | LQ9                             | E1                 |                    | PP, EP              |             |   | 0               |                             |         |
| 2760             | ARSENICAL PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C | 3               | FT2                 | I                | 3+6.1            | 61<br>274<br>802                   | LQ3                             | E0                 |                    | PP, EP, EX, TOX, A  | VE01, VE02  |   | 2               |                             |         |
| 2760             | ARSENICAL PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C | 3               | FT2                 | II               | 3+6.1            | 61<br>274<br>802                   | LQ4                             | E2                 |                    | PP, EP, EX, TOX, A  | VE01, VE02  |   | 2               |                             |         |
| 2761             | ORGANOCHLORINE PESTICIDE, SOLID, TOXIC                                     | 6.1             | T7                  | I                | 6.1              | 61<br>274<br>648<br>802            | LQ0                             | E5                 |                    | PP, EP              |             |   | 2               |                             |         |
| 2761             | ORGANOCHLORINE PESTICIDE, SOLID, TOXIC                                     | 6.1             | T7                  | II               | 6.1              | 61<br>274<br>648<br>802            | LQ18                            | E4                 |                    | PP, EP              |             |   | 2               |                             |         |

| UN No. or ID No. | Name and description  | Class    | Classification Code | Packing group | Labels    | Special provisions      | Limited and excepted quantities |              | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage |            | Number of blue cones/lights | Remarks |
|------------------|---|----------|---------------------|---------------|-----------|-------------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |   |          |                     |               |           |                         | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (10)  | 7.1.6 (11) |                             |         |
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)                 | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 2761             | ORGANOCHLORINE PESTICIDE, SOLID, TOXIC  | 6.1      | T7                  | III           | 6.1       | 61<br>274<br>648<br>802 | LQ9                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 2762             | ORGANOCHLORINE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C | 3        | FT2                 | I             | 3+6.1     | 61<br>274<br>802        | LQ3                             | E0           |                    | PP, EP, EX, TOX, A | VE01, VEO2  |   | 2          |                             |         |
| 2762             | ORGANOCHLORINE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C | 3        | FT2                 | II            | 3+6.1     | 61<br>274<br>802        | LQ4                             | E2           |                    | PP, EP, EX, TOX, A | VE01, VEO2  |   | 2          |                             |         |
| 2763             | TRIAZINE PESTICIDE, SOLID, TOXIC  | 6.1      | T7                  | I             | 6.1       | 61<br>274<br>648<br>802 | LQ0                             | E5           |                    | PP, EP             |             |   | 2          |                             |         |
| 2763             | TRIAZINE PESTICIDE, SOLID, TOXIC  | 6.1      | T7                  | II            | 6.1       | 61<br>274<br>648<br>802 | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 2763             | TRIAZINE PESTICIDE, SOLID, TOXIC  | 6.1      | T7                  | III           | 6.1       | 61<br>274<br>648<br>802 | LQ9                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 2764             | TRIAZINE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C       | 3        | FT2                 | I             | 3+6.1     | 61<br>274<br>802        | LQ3                             | E0           |                    | PP, EP, EX, TOX, A | VE01, VEO2  |   | 2          |                             |         |
| 2764             | TRIAZINE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C       | 3        | FT2                 | II            | 3+6.1     | 61<br>274<br>802        | LQ4                             | E2           |                    | PP, EP, EX, TOX, A | VE01, VEO2  |   | 2          |                             |         |
| 2771             | THIOCARBAMATE PESTICIDE, SOLID, TOXIC   | 6.1      | T7                  | I             | 6.1       | 61<br>274<br>648<br>802 | LQ0                             | E5           |                    | PP, EP             |             |   | 2          |                             |         |
| 2771             | THIOCARBAMATE PESTICIDE, SOLID, TOXIC   | 6.1      | T7                  | II            | 6.1       | 61<br>274<br>648<br>802 | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 2771             | THIOCARBAMATE PESTICIDE, SOLID, TOXIC   | 6.1      | T7                  | III           | 6.1       | 61<br>274<br>648<br>802 | LQ9                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 2772             | THIOCARBAMATE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C  | 3        | FT2                 | I             | 3+6.1     | 61<br>274<br>802        | LQ3                             | E0           |                    | PP, EP, EX, TOX, A | VE01, VEO2  |   | 2          |                             |         |
| 2772             | THIOCARBAMATE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C  | 3        | FT2                 | II            | 3+6.1     | 61<br>274<br>802        | LQ4                             | E2           |                    | PP, EP, EX, TOX, A | VE01, VEO2  |   | 2          |                             |         |

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|------------------|--|-----------------|---------------------|------------------|------------------|------------------------------------|---------------------------------|--------------------|--------------------|---------------------|---------------------|---|---------------------|-----------------------------|---------|
|                  |  |                 |                     |                  |                  |                                    | 3.4.6 (7a)                      | 3.5.1.2 (7b)       |                    |                     |                     | 7.1.6 (11)  | 7.1.6 (12)          |                             |         |
| 2775             | 3.1.2 (2)<br>COPPER BASED PESTICIDE, SOLID, TOXIC                              | 2.2 (3a)<br>6.1 | 2.2 (3b)<br>T7      | 2.1.1.3 (4)<br>I | 5.2.2 (5)<br>6.1 | 3.3 (6)<br>61<br>274<br>648<br>802 | 3.4.6 (7a)<br>LQ0               | 3.5.1.2 (7b)<br>E5 | 3.2.1 (8)<br>3.2.1 | 8.1.5 (9)<br>PP, EP | 7.1.6 (10)<br>7.1.6 | 7.1.6 (11)  | 7.1.5 (12)<br>7.1.5 | 3.2.1 (13)<br>3.2.1         |         |
|                  |  |                 |                     |                  |                  |                                    |                                 |                    |                    |                     |                     |   |                     |                             |         |
| 2775             | COPPER BASED PESTICIDE, SOLID, TOXIC   | 6.1             | T7                  | II               | 6.1              | 61<br>274<br>648<br>802            | LQ18                            | E4                 |                    | PP, EP              |                     |   | 2                   |                             |         |
| 2775             | COPPER BASED PESTICIDE, SOLID, TOXIC   | 6.1             | T7                  | III              | 6.1              | 61<br>274<br>648<br>802            | LQ9                             | E1                 |                    | PP, EP              |                     |   | 0                   |                             |         |
| 2776             | COPPER BASED PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C  | 3               | FT2                 | I                | 3+6.1            | 61<br>274<br>802                   | LQ3                             | E0                 |                    | PP, EP, EX, TOX, A  | VE01,<br>VE02       |   | 2                   |                             |         |
| 2776             | COPPER BASED PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C  | 3               | FT2                 | II               | 3+6.1            | 61<br>274<br>802                   | LQ4                             | E2                 |                    | PP, EP, EX, TOX, A  | VE01,<br>VE02       |   | 2                   |                             |         |
| 2777             | MERCURY BASED PESTICIDE, SOLID, TOXIC  | 6.1             | T7                  | I                | 6.1              | 61<br>274<br>648<br>802            | LQ0                             | E5                 |                    | PP, EP              |                     |   | 2                   |                             |         |
| 2777             | MERCURY BASED PESTICIDE, SOLID, TOXIC  | 6.1             | T7                  | II               | 6.1              | 61<br>274<br>648<br>802            | LQ18                            | E4                 |                    | PP, EP              |                     |   | 2                   |                             |         |
| 2777             | MERCURY BASED PESTICIDE, SOLID, TOXIC  | 6.1             | T7                  | III              | 6.1              | 61<br>274<br>648<br>802            | LQ9                             | E1                 |                    | PP, EP              |                     |   | 0                   |                             |         |
| 2778             | MERCURY BASED PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C | 3               | FT2                 | I                | 3+6.1            | 61<br>274<br>802                   | LQ3                             | E0                 |                    | PP, EP, EX, TOX, A  | VE01,<br>VE02       |   | 2                   |                             |         |
| 2778             | MERCURY BASED PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C | 3               | FT2                 | II               | 3+6.1            | 61<br>274<br>802                   | LQ4                             | E2                 |                    | PP, EP, EX, TOX, A  | VE01,<br>VE02       |   | 2                   |                             |         |
| 2779             | SUBSTITUTED NITROPHENOL PESTICIDE, SOLID, TOXIC                                | 6.1             | T7                  | I                | 6.1              | 61<br>274<br>648<br>802            | LQ0                             | E5                 |                    | PP, EP              |                     |   | 2                   |                             |         |
| 2779             | SUBSTITUTED NITROPHENOL PESTICIDE, SOLID, TOXIC                                | 6.1             | T7                  | II               | 6.1              | 61<br>274<br>648<br>802            | LQ18                            | E4                 |                    | PP, EP              |                     |   | 2                   |                             |         |

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|------------------|--|----------|---------------------|---------------|-----------|-------------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |  |          |                     |               |           |                         | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (10)  | 7.1.6 (11) |                             |         |
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)                 | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 2779             | SUBSTITUTED NITROPHENOL PESTICIDE, SOLID, TOXIC  | 6.1      | T7                  | III           | 6.1       | 61<br>274<br>648<br>802 | LQ9                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 2780             | SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C | 3        | FT2                 | I             | 3+6.1     | 61<br>274<br>802        | LQ3                             | E0           |                    | PP, EP, EX, TOX, A | VE01, VEO2  |   | 2          |                             |         |
| 2780             | SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C | 3        | FT2                 | II            | 3+6.1     | 61<br>274<br>802        | LQ4                             | E2           |                    | PP, EP, EX, TOX, A | VE01, VEO2  |   | 2          |                             |         |
| 2781             | BIPYRIDILIUM PESTICIDE, SOLID, TOXIC   | 6.1      | T7                  | I             | 6.1       | 61<br>274<br>648<br>802 | LQ0                             | E5           |                    | PP, EP             |             |   | 2          |                             |         |
| 2781             | BIPYRIDILIUM PESTICIDE, SOLID, TOXIC   | 6.1      | T7                  | II            | 6.1       | 61<br>274<br>648<br>802 | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 2781             | BIPYRIDILIUM PESTICIDE, SOLID, TOXIC   | 6.1      | T7                  | III           | 6.1       | 61<br>274<br>648<br>802 | LQ9                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 2782             | BIPYRIDILIUM PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C            | 3        | FT2                 | I             | 3+6.1     | 61<br>274<br>802        | LQ3                             | E0           |                    | PP, EP, EX, TOX, A | VE01, VEO2  |   | 2          |                             |         |
| 2782             | BIPYRIDILIUM PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C            | 3        | FT2                 | II            | 3+6.1     | 61<br>274<br>802        | LQ4                             | E2           |                    | PP, EP, EX, TOX, A | VE01, VEO2  |   | 2          |                             |         |
| 2783             | ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC   | 6.1      | T7                  | I             | 6.1       | 61<br>274<br>648<br>802 | LQ0                             | E5           |                    | PP, EP             |             |   | 2          |                             |         |
| 2783             | ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC   | 6.1      | T7                  | II            | 6.1       | 61<br>274<br>648<br>802 | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 2783             | ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC   | 6.1      | T7                  | III           | 6.1       | 61<br>274<br>648<br>802 | LQ9                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 2784             | ORGANOPHOSPHORUS PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C        | 3        | FT2                 | I             | 3+6.1     | 61<br>274<br>802        | LQ3                             | E0           |                    | PP, EP, EX, TOX, A | VE01, VEO2  |   | 2          |                             |         |
| 2784             | ORGANOPHOSPHORUS PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C        | 3        | FT2                 | II            | 3+6.1     | 61<br>274<br>802        | LQ4                             | E2           |                    | PP, EP, EX, TOX, A | VE01, VEO2  |   | 2          |                             |         |

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|------------------|--|----------|---------------------|---------------|-----------|-------------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|---|---------|
|                  |  |          |                     |               |           |                         | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (10)  | 7.1.6 (11) |   |         |
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)                 | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)  |         |
| 2785             | 4-THIAPENTANAL   | 6.1      | T1                  | III           | 6.1       | 802                     | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0          |   |         |
| 2786             | ORGANOTIN PESTICIDE, SOLID, TOXIC  | 6.1      | T7                  | I             | 6.1       | 61<br>274<br>648<br>802 | LQ0                             | E5           |                    | PP, EP             |             |   | 2          |   |         |
| 2786             | ORGANOTIN PESTICIDE, SOLID, TOXIC  | 6.1      | T7                  | II            | 6.1       | 61<br>274<br>648<br>802 | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |   |         |
| 2786             | ORGANOTIN PESTICIDE, SOLID, TOXIC  | 6.1      | T7                  | III           | 6.1       | 61<br>274<br>648<br>802 | LQ9                             | E1           |                    | PP, EP             |             |   | 0          |   |         |
| 2787             | ORGANOTIN PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C             | 3        | FT2                 | I             | 3+6.1     | 61<br>274<br>802        | LQ3                             | E0           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |   |         |
| 2787             | ORGANOTIN PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C             | 3        | FT2                 | II            | 3+6.1     | 61<br>274<br>802        | LQ4                             | E2           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |   |         |
| 2788             | ORGANOTIN COMPOUND, LIQUID, N.O.S.   | 6.1      | T3                  | I             | 6.1       | 43<br>274<br>802        | LQ0                             | E5           |                    | PP, EP, TOX, A     | VE02        |   | 2          |   |         |
| 2788             | ORGANOTIN COMPOUND, LIQUID, N.O.S.   | 6.1      | T3                  | II            | 6.1       | 43<br>274<br>802        | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2          |   |         |
| 2788             | ORGANOTIN COMPOUND, LIQUID, N.O.S.   | 6.1      | T3                  | III           | 6.1       | 43<br>274<br>802        | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0          |   |         |
| 2789             | ACETIC ACID, GLACIAL or ACETIC ACID SOLUTION, more than 80% acid, by mass              | 8        | CF1                 | II            | 8+3       |                         | LQ22                            | E2           | T                  | PP, EP, EX, A      | VE01        |   | 1          |   |         |
| 2790             | ACETIC ACID SOLUTION, not less than 50% but not more than 80% acid, by mass            | 8        | C3                  | II            | 8         |                         | LQ22                            | E2           | T                  | PP, EP             |             |   | 0          |   |         |
| 2790             | ACETIC ACID SOLUTION, more than 10% and less than 50% acid, by mass                    | 8        | C3                  | III           | 8         | 597<br>647              | LQ7                             | E1           | T                  | PP, EP             |             |   | 0          |   |         |
| 2793             | FERROUS METAL BORINGS, SHAVINGS, TURNINGS or CUTTINGS in a form liable to self-heating | 4.2      | S4                  | III           | 4.2       | 592                     | LQ0                             | E1           | B                  | PP                 |             | LO02  | 0          | LO02 applies only when this substance is carried in bulk or without packaging |         |
| 2794             | BATTERIES, WET, FILLED WITH ACID, electric storage                                     | 8        | C11                 |               | 8         | 295<br>598              | LQ0                             | E0           |                    | PP, EP             |             |   | 0          |   |         |
| 2795             | BATTERIES, WET, FILLED WITH ALKALI, electric storage                                   | 8        | C11                 |               | 8         | 295<br>598              | LQ0                             | E0           |                    | PP, EP             |             |   | 0          |   |         |
| 2796             | SULPHURIC ACID with not more than 51% acid or BATTERY FLUID, ACID                      | 8        | C1                  | II            | 8         |                         | LQ22                            | E2           | T                  | PP, EP             |             |   | 0          |   |         |
| 2797             | BATTERY FLUID, ALKALI  | 8        | C5                  | II            | 8         |                         | LQ22                            | E2           | T                  | PP, EP             |             |   | 0          |   |         |

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|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 2798             | PHENYLPHOSPHORUS DICHLORIDE   | 8        | C3                  | II            | 8         |                    | LQ22                            | E2                 | PP, EP             |             |   | 0                           |            |
| 2799             | PHENYLPHOSPHORUS THIODICHLORIDE   | 8        | C3                  | II            | 8         |                    | LQ22                            | E2                 | PP, EP             |             |   | 0                           |            |
| 2800             | BATTERIES, WET, NON-SPILLABLE, electric storage                               | 8        | C11                 |               | 8         | 238<br>295<br>598  | LQ0                             | E0                 | PP, EP             |             |   | 0                           |            |
| 2801             | DYE, LIQUID, CORROSIVE, N.O.S. or DYE INTERMEDIATE, LIQUID, CORROSIVE, N.O.S. | 8        | C9                  | I             | 8         | 274                | LQ0                             | E0                 | PP, EP             |             |   | 0                           |            |
| 2801             | DYE, LIQUID, CORROSIVE, N.O.S. or DYE INTERMEDIATE, LIQUID, CORROSIVE, N.O.S. | 8        | C9                  | II            | 8         | 274                | LQ22                            | E2                 | PP, EP             |             |   | 0                           |            |
| 2801             | DYE, LIQUID, CORROSIVE, N.O.S. or DYE INTERMEDIATE, LIQUID, CORROSIVE, N.O.S. | 8        | C9                  | III           | 8         | 274                | LQ7                             | E1                 | PP, EP             |             |   | 0                           |            |
| 2802             | COPPER CHLORIDE   | 8        | C2                  | III           | 8         |                    | LQ24                            | E1                 | PP, EP             |             |   | 0                           |            |
| 2803             | GALLIUM   | 8        | C10                 | III           | 8         |                    | LQ24                            | E0                 | PP, EP             |             |   | 0                           |            |
| 2805             | LITHIUM HYDRIDE, FUSED SOLID  | 4.3      | W2                  | II            | 4.3       |                    | LQ11                            | E2                 | PP, EX, A          | VE01        | HA08  | 0                           |            |
| 2806             | LITHIUM NITRIDE   | 4.3      | W2                  | I             | 4.3       |                    | LQ0                             | E0                 | PP, EX, A          | VE01        | HA08  | 0                           |            |
| 2807             | Magnetized material   | 9        | M11                 |               |           |                    |                                 |                    | NOT SUBJECT TO ADN |             |   |                             |            |
| 2809             | MERCURY   | 8        | C9                  | III           | 8         | 599                | LQ19                            | E0                 | PP, EP             |             |   | 0                           |            |
| 2810             | TOXIC LIQUID, ORGANIC, N.O.S.   | 6.1      | T1                  | I             | 6.1       | 274<br>315<br>614  | LQ0                             | E5                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2810             | TOXIC LIQUID, ORGANIC, N.O.S.   | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2810             | TOXIC LIQUID, ORGANIC, N.O.S.   | 6.1      | T1                  | III           | 6.1       | 274<br>614<br>802  | LQ7                             | E1                 | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2811             | TOXIC SOLID, ORGANIC, N.O.S.  | 6.1      | T2                  | I             | 6.1       | 274<br>614<br>802  | LQ0                             | E5                 | PP, EP             |             |   | 2                           |            |
| 2811             | TOXIC SOLID, ORGANIC, N.O.S.  | 6.1      | T2                  | II            | 6.1       | 274<br>614<br>802  | LQ18                            | E4                 | PP, EP             |             |   | 2                           |            |
| 2811             | TOXIC SOLID, ORGANIC, N.O.S.  | 6.1      | T2                  | III           | 6.1       | 274<br>614<br>802  | LQ9                             | E1                 | PP, EP             |             |   | 0                           |            |
| 2812             | Sodium aluminate, solid   | 8        | C6                  |               |           |                    |                                 |                    | NOT SUBJECT TO ADN |             |   |                             |            |
| 2813             | WATER-REACTIVE SOLID, N.O.S.  | 4.3      | W2                  | I             | 4.3       | 274                | LQ0                             | E0                 | PP, EX, A          | VE01        | HA08  | 0                           |            |
| 2813             | WATER-REACTIVE SOLID, N.O.S.  | 4.3      | W2                  | II            | 4.3       | 274                | LQ11                            | E2                 | PP, EX, A          | VE01        | HA08  | 0                           |            |
| 2813             | WATER-REACTIVE SOLID, N.O.S.  | 4.3      | W2                  | III           | 4.3       | 274                | LQ12                            | E1                 | PP, EX, A          | VE01        | HA08  | 0                           |            |
| 2814             | INFECTIOUS SUBSTANCE, AFFECTING HUMANS  | 6.2      | I1                  |               | 6.2       | 318<br>802         | LQ0                             | E0                 | PP                 |             |   | 0                           |            |



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|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
|                  |   |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             |   |                             |            |
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 2814             | INFECTIOUS SUBSTANCE, AFFECTING HUMANS, in refrigerated liquid nitrogen | 6.2      | II                  |               | 6.2+2.2   | 318                | LQ0                             | E0           |                    | PP                 |             |   | 0                           |            |
| 2814             | INFECTIOUS SUBSTANCE, AFFECTING HUMANS (animal material only)           | 6.2      | II                  |               | 6.2       | 318                | LQ0                             | E0           |                    | PP                 |             |   | 0                           |            |
| 2815             | N-AMINOETHYL-PIPERAZINE   | 8        | C7                  | III           | 8         | 802                | LQ7                             | E1           | T                  | PP, EP             |             |   | 0                           |            |
| 2817             | AMMONIUM HYDROGENDIFLUORIDE SOLUTION                                    | 8        | CT1                 | II            | 8+6.1     | 802                | LQ22                            | E2           |                    | PP, EP             |             |   | 2                           |            |
| 2817             | AMMONIUM HYDROGENDIFLUORIDE SOLUTION                                    | 8        | CT1                 | III           | 8+6.1     | 802                | LQ7                             | E1           |                    | PP, EP             |             |   | 0                           |            |
| 2818             | AMMONIUM POLYSULPHIDE SOLUTION  | 8        | CT1                 | II            | 8+6.1     | 802                | LQ22                            | E2           |                    | PP, EP             |             |   | 2                           |            |
| 2818             | AMMONIUM POLYSULPHIDE SOLUTION  | 8        | CT1                 | III           | 8+6.1     | 802                | LQ7                             | E1           |                    | PP, EP             |             |   | 0                           |            |
| 2819             | AMYL ACID PHOSPHATE   | 8        | C3                  | III           | 8         |                    | LQ7                             | E1           |                    | PP, EP             |             |   | 0                           |            |
| 2820             | BUTYRIC ACID  | 8        | C3                  | III           | 8         |                    | LQ7                             | E1           | T                  | PP, EP             |             |   | 0                           |            |
| 2821             | PHENOL SOLUTION   | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2821             | PHENOL SOLUTION   | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2822             | 2-CHLOROPYRIDINE  | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2823             | CROTONIC ACID, SOLID  | 8        | C4                  | III           | 8         |                    | LQ24                            | E1           |                    | PP, EP             |             |   | 0                           |            |
| 2826             | ETHYL CHLOROTHIOFORMATE   | 8        | CF1                 | II            | 8+3       |                    | LQ22                            | E2           |                    | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 2829             | CAPROIC ACID  | 8        | C3                  | III           | 8         |                    | LQ7                             | E1           | T                  | PP, EP             |             |   | 0                           |            |
| 2830             | LITHIUM FERROSILICON  | 4.3      | W2                  | II            | 4.3       |                    | LQ11                            | E2           |                    | PP, EX, A          | VE01        | HA08  | 0                           |            |
| 2831             | 1,1,1-TRICHLOROETHANE   | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1           | T                  | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2834             | PHOSPHOROUS ACID  | 8        | C2                  | III           | 8         |                    | LQ24                            | E1           |                    | PP, EP             |             |   | 0                           |            |
| 2835             | SODIUM ALUMINIUM HYDRIDE  | 4.3      | W2                  | II            | 4.3       |                    | LQ11                            | E2           |                    | PP, EX, A          | VE01        | HA08  | 0                           |            |
| 2837             | BISULPHATES, AQUEOUS SOLUTION   | 8        | C1                  | II            | 8         | 274                | LQ22                            | E2           |                    | PP, EP             |             |   | 0                           |            |
| 2837             | BISULPHATES, AQUEOUS SOLUTION   | 8        | C1                  | III           | 8         | 274                | LQ7                             | E1           |                    | PP, EP             |             |   | 0                           |            |
| 2838             | VINYL BUTYRATE, STABILIZED  | 3        | F1                  | II            | 3         |                    | LQ4                             | E2           |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 2839             | ALDOL   | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2840             | BUTYRALDOXIME   | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 2841             | DI-n-AMYLAMINE  | 3        | FT1                 | III           | 3+6.1     | 802                | LQ7                             | E1           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2842             | NITROETHANE   | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 2844             | CALCIUM MANGANESE SILICON   | 4.3      | W2                  | III           | 4.3       |                    | LQ12                            | E1           |                    | PP, EX, A          | VE01        | HA08  | 0                           |            |
| 2845             | PYROPHORIC LIQUID, ORGANIC, N.O.S.                                      | 4.2      | S1                  | I             | 4.2       | 274                | LQ0                             | E0           |                    | PP                 |             |   | 0                           |            |
| 2846             | PYROPHORIC SOLID, ORGANIC, N.O.S.                                       | 4.2      | S2                  | I             | 4.2       | 274                | LQ0                             | E0           |                    | PP                 |             |   | 0                           |            |
| 2849             | 3-CHLOROPROPANOL-1  | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2850             | PROPYLENE TETRAMER  | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 2851             | BORON TRIFLUORIDE DIHYDRATE   | 8        | C1                  | II            | 8         |                    | LQ22                            | E2           |                    | PP, EP             |             |   | 0                           |            |
| 2852             | DIPICRYL SULPHIDE, WETTED with not less than 10% water, by mass         | 4.1      | D                   | I             | 4.1       | 545                | LQ0                             | E0           |                    | PP                 |             |   | 1                           |            |
| 2853             | MAGNESIUM FLUOROSILICATE  | 6.1      | T5                  | III           | 6.1       | 802                | LQ9                             | E1           |                    | PP, EP             |             |   | 0                           |            |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 2854             | AMMONIUM FLUOROSILICATE  | 6.1      | T5                  | III           | 6.1       | 802                | LQ9                             | E1                 | PP, EP             |             |   | 0                           |            |
| 2855             | ZINC FLUOROSILICATE  | 6.1      | T5                  | III           | 6.1       | 802                | LQ9                             | E1                 | PP, EP             |             |   | 0                           |            |
| 2856             | FLUOROSILICATES, N.O.S.  | 6.1      | T5                  | III           | 6.1       | 274                | LQ9                             | E1                 | PP, EP             |             |   | 0                           |            |
| 2857             | REFRIGERATING MACHINES containing non-flammable, non-toxic gases or ammonia solutions (UN 2672)                                | 2        | 6A                  |               | 2.2       | 119                | LQ0                             | E0                 | PP                 |             |   | 0                           |            |
| 2858             | ZIRCONIUM, DRY, coiled wire, finished metal sheets, strip (thinner than 254 microns but not thinner than 18 microns)           | 4.1      | F3                  | III           | 4.1       | 546                | LQ9                             | E1                 | PP                 |             |   | 0                           |            |
| 2859             | AMMONIUM METAVANADATE  | 6.1      | T5                  | II            | 6.1       | 802                | LQ18                            | E4                 | PP, EP             |             |   | 2                           |            |
| 2861             | AMMONIUM POLYVANADATE  | 6.1      | T5                  | II            | 6.1       | 802                | LQ18                            | E4                 | PP, EP             |             |   | 2                           |            |
| 2862             | VANADIUM PENTOXIDE, non-fused form   | 6.1      | T5                  | III           | 6.1       | 600                | LQ9                             | E1                 | PP, EP             |             |   | 0                           |            |
| 2863             | SODIUM AMMONIUM VANADATE   | 6.1      | T5                  | II            | 6.1       | 802                | LQ18                            | E4                 | PP, EP             |             |   | 2                           |            |
| 2864             | POTASSIUM METAVANADATE   | 6.1      | T5                  | II            | 6.1       | 802                | LQ18                            | E4                 | PP, EP             |             |   | 2                           |            |
| 2865             | HYDROXYLAMINE SULPHATE   | 8        | C2                  | III           | 8         |                    | LQ24                            | E1                 | PP, EP             |             |   | 0                           |            |
| 2869             | TITANIUM TRICHLORIDE MIXTURE   | 8        | C2                  | II            | 8         |                    | LQ23                            | E2                 | PP, EP             |             |   | 0                           |            |
| 2870             | TITANIUM TRICHLORIDE MIXTURE   | 8        | C2                  | III           | 8         |                    | LQ24                            | E1                 | PP, EP             |             |   | 0                           |            |
| 2871             | ALUMINIUM BOROXYDRIDE  | 4.2      | SW                  | I             | 4.2+4.3   |                    | LQ0                             | E0                 | PP, EX, A          | VE01        |   | 0                           |            |
| 2872             | ALUMINIUM BOROXYDRIDE IN DEVICES   | 4.2      | SW                  | I             | 4.2+4.3   |                    | LQ0                             | E0                 | PP, EX, A          | VE01        |   | 0                           |            |
| 2873             | ANTIMONY POWDER  | 6.1      | T5                  | III           | 6.1       | 802                | LQ9                             | E1                 | PP, EP             |             |   | 0                           |            |
| 2874             | DIBROMOCHLOROPROPANES  | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2875             | DIBROMOCHLOROPROPANES  | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1                 | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2876             | DIBUTYLAMINOETHANOL  | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1                 | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2877             | FURFURYL ALCOHOL   | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1                 | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2878             | HEXACHLOROPHENE  | 6.1      | T2                  | III           | 6.1       | 802                | LQ9                             | E1                 | PP, EP             |             |   | 0                           |            |
| 2879             | RESORCINOL   | 6.1      | T2                  | III           | 6.1       | 802                | LQ9                             | E1                 | PP, EP             |             |   | 0                           |            |
| 2880             | TITANIUM SPONGE GRANULES or TITANIUM SPONGE POWDERS  | 4.1      | F3                  | III           | 4.1       |                    | LQ9                             | E1                 | PP                 |             |   | 0                           |            |
| 2881             | SELENIUM OXYCHLORIDE   | 8        | CT1                 | I             | 8+6.1     | 802                | LQ0                             | E0                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2882             | CALCIUM HYPOCHLORITE, HYDRATED, or CALCIUM HYPOCHLORITE, HYDRATED MIXTURE, with not less than 5.5% but not more than 16% water | 5.1      | O2                  | II            | 5.1       | 313<br>314<br>322  | LQ11                            | E2                 | PP                 |             |   | 0                           |            |
| 2883             | CALCIUM HYPOCHLORITE, HYDRATED or CALCIUM HYPOCHLORITE HYDRATED MIXTURE, with not less than 5.5% but not more than 16% water   | 5.1      | O2                  | III           | 5.1       | 313<br>314         | LQ12                            | E1                 | PP                 |             |   | 0                           |            |
| 2884             | METAL CATALYST, DRY  | 4.2      | S4                  | I             | 4.2       | 274                | LQ0                             | E0                 | PP                 |             |   | 0                           |            |
| 2885             | METAL CATALYST, DRY  | 4.2      | S4                  | II            | 4.2       | 274                | LQ0                             | E2                 | PP                 |             |   | 0                           |            |

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|------------------|--|----------|---------------------|---------------|-----------|-------------------------|---------------------------------|--------------------|--------------------|---------------|---|-----------------------------|--|
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)                 | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)    | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13)   |
| 2881             | METAL CATALYST, DRY  | 4.2      | S4                  | III           | 4.2       | 274                     | LQ0                             | E1                 | PP                 |               |   | 0                           |  |
| 2900             | INFECTIOUS SUBSTANCE, AFFECTING ANIMALS only   | 6.2      | I2                  |               | 6.2       | 318<br>802              | LQ0<br>LQ0                      | E0<br>E0           | PP                 |               |   | 0                           |  |
| 2900             | INFECTIOUS SUBSTANCE, AFFECTING ANIMALS only, in refrigerated liquid nitrogen  | 6.2      | I2                  |               | 6.2+2.2   | 318<br>802              | LQ0<br>LQ0                      | E0<br>E0           | PP                 |               |   | 0                           |  |
| 2900             | INFECTIOUS SUBSTANCE, AFFECTING ANIMALS only (animal material only)  | 6.2      | I2                  |               | 6.2       | 318<br>802              | LQ0<br>LQ0                      | E0<br>E0           | PP                 |               |   | 0                           |  |
| 2901             | BROMINE CHLORIDE   | 2        | 2TOC                |               | 2.3+5.1+8 |                         | LQ0                             | E0                 | PP, EP, TOX, A     | VE02          |   | 2                           |  |
| 2902             | PESTICIDE, LIQUID, TOXIC, N.O.S.   | 6.1      | T6                  | I             | 6.1       | 61<br>274<br>648<br>802 | LQ0                             | E5                 | PP, EP, TOX, A     | VE02          |   | 2                           |  |
| 2902             | PESTICIDE, LIQUID, TOXIC, N.O.S.   | 6.1      | T6                  | II            | 6.1       | 61<br>274<br>648<br>802 | LQ17                            | E4                 | PP, EP, TOX, A     | VE02          |   | 2                           |  |
| 2902             | PESTICIDE, LIQUID, TOXIC, N.O.S.   | 6.1      | T6                  | III           | 6.1       | 61<br>274<br>648<br>802 | LQ7                             | E1                 | PP, EP, TOX, A     | VE02          |   | 0                           |  |
| 2903             | PESTICIDE, LIQUID, TOXIC, FLAMMABLE, N.O.S., flash-point not less than 23 °C   | 6.1      | TF2                 | I             | 6.1+3     | 61<br>274<br>802        | LQ0                             | E5                 | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 2                           |  |
| 2903             | PESTICIDE, LIQUID, TOXIC, FLAMMABLE, N.O.S., flash-point not less than 23 °C   | 6.1      | TF2                 | II            | 6.1+3     | 61<br>274<br>802        | LQ17                            | E4                 | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 2                           |  |
| 2903             | PESTICIDE, LIQUID, TOXIC, FLAMMABLE, N.O.S., flash-point not less than 23 °C   | 6.1      | TF2                 | III           | 6.1+3     | 61<br>274<br>802        | LQ7                             | E1                 | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 0                           |  |
| 2904             | CHLOROPHENOLATES, LIQUID or PHENOLATES, LIQUID   | 8        | C9                  | III           | 8         |                         | LQ7                             | E1                 | PP, EP             |               |   | 0                           | * applies only to phenolates but not to chlorophenolates |
| 2905             | CHLOROPHENOLATES, SOLID or PHENOLATES, SOLID   | 8        | C10                 | III           | 8         |                         | LQ24                            | E1                 | PP, EP             |               |   | 0                           |  |
| 2907             | ISOSORBIDE DINITRATE MIXTURE with not less than 60% lactose, mannose, starch or calcium hydrogen phosphate                 | 4.1      | D                   | II            | 4.1       | 127                     | LQ8                             | E0                 | PP                 |               |   | 0                           |  |
| 2908             | RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - EMPTY PACKAGING   | 7        |                     |               |           | 290                     | LQ0                             | E0                 | PP                 |               |   | 0                           |  |
| 2909             | RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - ARTICLES MANUFACTURED FROM NATURAL URANIUM or DEPLETED URANIUM or NATURAL THORIUM | 7        |                     |               |           | 290                     | LQ0                             | E0                 | PP                 |               |   | 0                           |  |

| UN No. or ID No. | Name and description  | Class    | Classification Code | Packing group | Labels    | Special provisions | Limited and excepted quantities | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage | Number of blue cones/lights | Remarks    |
|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 2910             | RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - LIMITED QUANTITY OF MATERIAL                                 | 7        |                     |               |           | 290                | LQ0                             |                    | PP                 |             |   | 0                           |            |
| 2911             | RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - INSTRUMENTS or ARTICLES                                      | 7        |                     |               |           | 290                | LQ0                             |                    | PP                 |             |   | 0                           |            |
| 2912             | RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-I), non fissile or fissile-excepted                  | 7        |                     |               | 7X        | 172<br>317<br>325  | LQ0                             | <b>B</b>           | PP                 |             | RA01  | 2                           |            |
| 2913             | RADIOACTIVE MATERIAL, SURFACE CONTAMINATED OBJECTS (SCO-I or SCO-II), non fissile or fissile-excepted | 7        |                     |               | 7X        | 172<br>317<br>356  | LQ0                             | <b>B</b>           | PP                 |             | RA02,<br>RA03   | 2                           |            |
| 2915             | RADIOACTIVE MATERIAL, TYPE A PACKAGE, non-special form, non fissile or fissile-excepted               | 7        |                     |               | 7X        | 172<br>317<br>325  | LQ0                             |                    | PP                 |             |   | 2                           |            |
| 2916             | RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, non fissile or fissile-excepted                              | 7        |                     |               | 7X        | 172<br>317<br>337  | LQ0                             |                    | PP                 |             |   | 2                           |            |
| 2917             | RADIOACTIVE MATERIAL, TYPE B(M) PACKAGE, non fissile or fissile-excepted                              | 7        |                     |               | 7X        | 172<br>317<br>337  | LQ0                             |                    | PP                 |             |   | 2                           |            |
| 2919             | RADIOACTIVE MATERIAL, TRANSPORTED UNDER SPECIAL ARRANGEMENT, non fissile or fissile-excepted          | 7        |                     |               | 7X        | 172<br>317         | LQ0                             |                    | PP                 |             |   | 2                           |            |
| 2920             | CORROSIVE LIQUID, FLAMMABLE, N.O.S.   | 8        | CF1                 | I             | 8+3       | 274                | LQ0                             |                    | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 2920             | CORROSIVE LIQUID, FLAMMABLE, N.O.S.   | 8        | CF1                 | II            | 8+3       | 274                | LQ22                            | <b>T</b>           | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 2921             | CORROSIVE SOLID, FLAMMABLE, N.O.S.  | 8        | CF2                 | I             | 8+4.1     | 274                | LQ0                             |                    | PP, EP             |             |   | 1                           |            |
| 2921             | CORROSIVE SOLID, FLAMMABLE, N.O.S.  | 8        | CF2                 | II            | 8+4.1     | 274                | LQ23                            |                    | PP, EP             |             |   | 1                           |            |
| 2922             | CORROSIVE LIQUID, TOXIC, N.O.S.   | 8        | CT1                 | I             | 8+6.1     | 274<br>802         | LQ0                             | <b>T</b>           | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2922             | CORROSIVE LIQUID, TOXIC, N.O.S.   | 8        | CT1                 | II            | 8+6.1     | 274<br>802         | LQ22                            | <b>T</b>           | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2922             | CORROSIVE LIQUID, TOXIC, N.O.S.   | 8        | CT1                 | III           | 8+6.1     | 274<br>802         | LQ7                             | <b>T</b>           | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2923             | CORROSIVE SOLID, TOXIC, N.O.S.  | 8        | CT2                 | I             | 8+6.1     | 274<br>802         | LQ0                             |                    | PP, EP             |             |   | 2                           |            |
| 2923             | CORROSIVE SOLID, TOXIC, N.O.S.  | 8        | CT2                 | II            | 8+6.1     | 274<br>802         | LQ23                            |                    | PP, EP             |             |   | 2                           |            |
| 2923             | CORROSIVE SOLID, TOXIC, N.O.S.  | 8        | CT2                 | III           | 8+6.1     | 274<br>802         | LQ24                            |                    | PP, EP             |             |   | 0                           |            |
| 2924             | FLAMMABLE LIQUID, CORROSIVE, N.O.S.   | 3        | FC                  | I             | 3+8       | 274                | LQ3                             | <b>T</b>           | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 2924             | FLAMMABLE LIQUID, CORROSIVE, N.O.S.   | 3        | FC                  | II            | 3+8       | 274                | LQ4                             | <b>T</b>           | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 2924             | FLAMMABLE LIQUID, CORROSIVE, N.O.S.   | 3        | FC                  | III           | 3+8       | 274                | LQ7                             | <b>T</b>           | PP, EP, EX, A      | VE01        |   | 0                           |            |
| 2925             | FLAMMABLE SOLID, CORROSIVE, ORGANIC, N.O.S.   | 4.1      | FC1                 | II            | 4.1+8     | 274                | LQ0                             |                    | PP                 |             |   | 1                           |            |

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|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
|                  |   |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             |   |                             |            |
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 2925             | FLAMMABLE SOLID, CORROSIVE, ORGANIC, N.O.S.       | 4.1      | FC1                 | III           | 4.1+8     | 274                | LQ0                             | E1           |                    | PP                 |             |   | 0                           |            |
| 2926             | FLAMMABLE SOLID, TOXIC, ORGANIC, N.O.S.           | 4.1      | FT1                 | II            | 4.1+6.1   | 274                | LQ0                             | E2           |                    | PP                 |             |   | 2                           |            |
| 2926             | FLAMMABLE SOLID, TOXIC, ORGANIC, N.O.S.           | 4.1      | FT1                 | III           | 4.1+6.1   | 274                | LQ0                             | E1           |                    | PP                 |             |   | 0                           |            |
| 2927             | TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.          | 6.1      | TC1                 | I             | 6.1+8     | 274                | LQ0                             | E5           | T                  | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2927             | TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.          | 6.1      | TC1                 | II            | 6.1+8     | 274                | LQ17                            | E4           | T                  | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2928             | TOXIC SOLID, CORROSIVE, ORGANIC, N.O.S.           | 6.1      | TC2                 | I             | 6.1+8     | 274                | LQ0                             | E5           |                    | PP, EP             |             |   | 2                           |            |
| 2928             | TOXIC SOLID, CORROSIVE, ORGANIC, N.O.S.           | 6.1      | TC2                 | II            | 6.1+8     | 274                | LQ18                            | E4           |                    | PP, EP             |             |   | 2                           |            |
| 2929             | TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.          | 6.1      | TF1                 | I             | 6.1+3     | 274                | LQ0                             | E5           | T                  | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2929             | TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.          | 6.1      | TF1                 | II            | 6.1+3     | 274                | LQ17                            | E4           | T                  | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2930             | TOXIC SOLID, FLAMMABLE, ORGANIC, N.O.S.           | 6.1      | TF3                 | I             | 6.1+4.1   | 274                | LQ0                             | E5           |                    | PP, EP             |             |   | 2                           |            |
| 2930             | TOXIC SOLID, FLAMMABLE, ORGANIC, N.O.S.           | 6.1      | TF3                 | II            | 6.1+4.1   | 274                | LQ18                            | E4           |                    | PP, EP             |             |   | 2                           |            |
| 2931             | VANADYL SULPHATE                                  | 6.1      | T5                  | II            | 6.1       | 802                | LQ18                            | E4           |                    | PP, EP             |             |   | 2                           |            |
| 2933             | METHYL-2-CHLOROPROPIONATE                         | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 2934             | ISOPROPYL-2-CHLOROPROPIONATE                      | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 2935             | ETHYL-2-CHLOROPROPIONATE                          | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 2936             | THIOLACTIC ACID                                   | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2937             | alpha-METHYLBENZYL ALCOHOL, LIQUID                | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2940             | 9-PHOSPHABICYCLONANES (CYCLOOCTADIENE PHOSPHINES) | 4.2      | S2                  | II            | 4.2       |                    | LQ0                             | E2           |                    | PP                 |             |   | 0                           |            |
| 2941             | FLUOROANILINES                                    | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2942             | 2-TRIFLUOROMETHYLANILINE                          | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2943             | TETRAHYDROFURFURYLAMINE                           | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 2945             | N-METHYLBUTYLAMINE                                | 3        | FC                  | II            | 3+8       |                    | LQ4                             | E2           |                    | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 2946             | 2-AMINO-5-DIETHYLAMINOPENTANE                     | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 2947             | ISOPROPYLCHLOROACETATE                            | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 2948             | 3-TRIFLUOROMETHYLANILINE                          | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |

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|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 2949             | SODIUM HYDROSULPHIDE, HYDRATED with not less than 25% water of crystallization  | 8        | C6                  | II            | 8         | 523                | LQ23                            |                    | PP, EP             |             |   | 0                           |            |
| 2950             | MAGNESIUM GRANULES, COATED, particle size not less than 149 microns   | 4.3      | W2                  | III           | 4.3       |                    | LQ12                            |                    | PP, EX, A          | VE01        | HA08  | 0                           |            |
| 2956             | 5-tert-BUTYL-2,4,6-TRINITRO-m-XYLENE (MUSK XYLENE)  | 4.1      | SR1                 | III           | 4.1       | 638                | LQ0                             |                    | PP                 |             |   | 0                           |            |
| 2965             | BORON TRIFLUORIDE DIMETHYL ETHERATE   | 4.3      | WFC                 | I             | 4.3+3+8   |                    | LQ0                             |                    | PP, EP, EX, A      | VE01        | HA08  | 1                           |            |
| 2966             | THIOGLYCOL  | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | T                  | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 2967             | SULPHAMIC ACID  | 8        | C2                  | III           | 8         |                    | LQ24                            |                    | PP, EP             |             |   | 0                           |            |
| 2968             | MANEB, STABILIZED or MANEB PREPARATION, STABILIZED against self-heating   | 4.3      | W2                  | III           | 4.3       | 547                | LQ12                            |                    | PP, EX, A          | VE01        | HA08  | 0                           |            |
| 2969             | CASTOR BEANS or CASTOR MEAL or CASTOR POMACE or CASTOR FLAKE  | 9        | M11                 | II            | 9         | 141                | LQ25                            | B                  | PP                 |             |   | 0                           |            |
| 2977             | RADIOACTIVE MATERIAL, URANIUM HEXAFLUORIDE, FISSILE   | 7        |                     |               | 7X+7E+8   | 172                | LQ0                             |                    | PP                 |             |   | 2                           |            |
| 2978             | RADIOACTIVE MATERIAL, URANIUM HEXAFLUORIDE, non fissile or fissile-excepted   | 7        |                     |               | 7X+8      | 172<br>317         | LQ0                             | B                  | PP                 |             | RA01  | 2                           |            |
| 2983             | ETHYLENE OXIDE AND PROPYLENE OXIDE MIXTURE, not more than 30% ethylene  | 3        | FT1                 | I             | 3+6.1     | 802                | LQ0                             | T                  | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2984             | HYDROGEN PEROXIDE, AQUEOUS SOLUTION with not less than 8% but less than 20% hydrogen peroxide (stabilized as necessary) | 5.1      | O1                  | III           | 5.1       | 65                 | LQ13                            |                    | PP                 |             |   | 0                           |            |
| 2985             | CHLOROSILANES, FLAMMABLE, CORROSIVE, N.O.S.   | 3        | FC                  | II            | 3+8       | 274<br>548         | LQ4                             |                    | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 2986             | CHLOROSILANES, CORROSIVE, FLAMMABLE, N.O.S.   | 8        | CF1                 | II            | 8+3       | 274<br>548         | LQ22                            |                    | PP, EP, EX, A      | VE01        |   | 1                           |            |
| 2987             | CHLOROSILANES, CORROSIVE, N.O.S.  | 8        | C3                  | II            | 8         | 274<br>548         | LQ22                            |                    | PP, EP             |             |   | 0                           |            |
| 2988             | CHLOROSILANES, WATER-REACTIVE, FLAMMABLE, CORROSIVE, N.O.S.   | 4.3      | WFC                 | I             | 4.3+3+8   | 274<br>549         | LQ0                             |                    | PP, EP, EX, A      | VE01        | HA08  | 1                           |            |
| 2989             | LEAD PHOSPHITE, DIBASIC   | 4.1      | F3                  | II            | 4.1       |                    | LQ8                             |                    | PP                 |             |   | 1                           |            |
| 2989             | LEAD PHOSPHITE, DIBASIC   | 4.1      | F3                  | III           | 4.1       |                    | LQ9                             |                    | PP                 |             |   | 0                           |            |
| 2990             | LIFE-SAVING APPLIANCES, SELF-INFLATING  | 9        | M5                  |               | 9         | 296<br>635         | LQ0                             |                    | PP                 |             |   | 0                           |            |
| 2991             | CARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C  | 6.1      | TF2                 | I             | 6.1+3     | 61<br>274<br>802   | LQ0                             |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 2991             | CARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C  | 6.1      | TF2                 | II            | 6.1+3     | 61<br>274<br>802   | LQ17                            |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |

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|------------------|---|----------|---------------------|---------------|-----------|-------------------------|---------------------------------|--------------|--------------------|--------------------|---------------|---|------------|-----------------------------|---------|
|                  |   |          |                     |               |           |                         | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |               | 7.1.6 (10)  | 7.1.6 (11) |                             |         |
|                  | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)                 | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)    | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 2991             | CARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C      | 6.1      | TF2                 | III           | 6.1+3     | 61<br>274<br>802        | LQ7                             | E1           |                    | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 0          |                             |         |
| 2992             | CARBAMATE PESTICIDE, LIQUID, TOXIC  | 6.1      | T6                  | I             | 6.1       | 61<br>274<br>648<br>802 | LQ0                             | E5           |                    | PP, EP, TOX, A     | VE02          |   | 2          |                             |         |
| 2992             | CARBAMATE PESTICIDE, LIQUID, TOXIC  | 6.1      | T6                  | II            | 6.1       | 61<br>274<br>648<br>802 | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02          |   | 2          |                             |         |
| 2992             | CARBAMATE PESTICIDE, LIQUID, TOXIC  | 6.1      | T6                  | III           | 6.1       | 61<br>274<br>648<br>802 | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02          |   | 0          |                             |         |
| 2993             | ARSENICAL PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C      | 6.1      | TF2                 | I             | 6.1+3     | 61<br>274<br>802        | LQ0                             | E5           |                    | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 2          |                             |         |
| 2993             | ARSENICAL PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C      | 6.1      | TF2                 | II            | 6.1+3     | 61<br>274<br>802        | LQ17                            | E4           |                    | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 2          |                             |         |
| 2993             | ARSENICAL PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C      | 6.1      | TF2                 | III           | 6.1+3     | 61<br>274<br>802        | LQ7                             | E1           |                    | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 0          |                             |         |
| 2994             | ARSENICAL PESTICIDE, LIQUID, TOXIC  | 6.1      | T6                  | I             | 6.1       | 61<br>274<br>648<br>802 | LQ0                             | E5           |                    | PP, EP, TOX, A     | VE02          |   | 2          |                             |         |
| 2994             | ARSENICAL PESTICIDE, LIQUID, TOXIC  | 6.1      | T6                  | II            | 6.1       | 61<br>274<br>648<br>802 | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02          |   | 2          |                             |         |
| 2994             | ARSENICAL PESTICIDE, LIQUID, TOXIC  | 6.1      | T6                  | III           | 6.1       | 61<br>274<br>648<br>802 | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02          |   | 0          |                             |         |
| 2995             | ORGANOCHLORINE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C | 6.1      | TF2                 | I             | 6.1+3     | 61<br>274<br>802        | LQ0                             | E5           |                    | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 2          |                             |         |
| 2995             | ORGANOCHLORINE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C | 6.1      | TF2                 | II            | 6.1+3     | 61<br>274<br>802        | LQ17                            | E4           |                    | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 2          |                             |         |
| 2995             | ORGANOCHLORINE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C | 6.1      | TF2                 | III           | 6.1+3     | 61<br>274<br>802        | LQ7                             | E1           |                    | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 0          |                             |         |

| UN No. or ID No. | Name and description   | Class    | Classification Code | Packing group | Labels    | Special provisions      | Limited and excepted quantities |              | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage |            | Number of blue cones/lights | Remarks |
|------------------|--|----------|---------------------|---------------|-----------|-------------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |  |          |                     |               |           |                         | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (10)  | 7.1.6 (11) |                             |         |
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)                 | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 2996             | ORGANOCHLORINE PESTICIDE, LIQUID, TOXIC  | 6.1      | T6                  | I             | 6.1       | 61<br>274<br>648<br>802 | LQ0                             | E5           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 2996             | ORGANOCHLORINE PESTICIDE, LIQUID, TOXIC  | 6.1      | T6                  | II            | 6.1       | 61<br>274<br>648<br>802 | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 2996             | ORGANOCHLORINE PESTICIDE, LIQUID, TOXIC  | 6.1      | T6                  | III           | 6.1       | 61<br>274<br>648<br>802 | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0          |                             |         |
| 2997             | TRIAZINE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C      | 6.1      | TF2                 | I             | 6.1+3     | 61<br>274<br>802        | LQ0                             | E5           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 2997             | TRIAZINE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C      | 6.1      | TF2                 | II            | 6.1+3     | 61<br>274<br>802        | LQ17                            | E4           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 2997             | TRIAZINE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C      | 6.1      | TF2                 | III           | 6.1+3     | 61<br>274<br>802        | LQ7                             | E1           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 0          |                             |         |
| 2998             | TRIAZINE PESTICIDE, LIQUID, TOXIC  | 6.1      | T6                  | I             | 6.1       | 61<br>274<br>648<br>802 | LQ0                             | E5           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 2998             | TRIAZINE PESTICIDE, LIQUID, TOXIC  | 6.1      | T6                  | II            | 6.1       | 61<br>274<br>648<br>802 | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 2998             | TRIAZINE PESTICIDE, LIQUID, TOXIC  | 6.1      | T6                  | III           | 6.1       | 61<br>274<br>648<br>802 | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0          |                             |         |
| 3005             | THIOCARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C | 6.1      | TF2                 | I             | 6.1+3     | 61<br>274<br>802        | LQ0                             | E5           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 3005             | THIOCARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C | 6.1      | TF2                 | II            | 6.1+3     | 61<br>274<br>802        | LQ17                            | E4           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 3005             | THIOCARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C | 6.1      | TF2                 | III           | 6.1+3     | 61<br>274<br>802        | LQ7                             | E1           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 0          |                             |         |
| 3006             | THIOCARBAMATE PESTICIDE, LIQUID, TOXIC   | 6.1      | T6                  | I             | 6.1       | 61<br>274<br>648<br>802 | LQ0                             | E5           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |



| UN No. or ID No. | Name and description   | Class    | Classification Code | Packing group | Labels    | Special provisions      | Limited and excepted quantities |              | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage |            | Number of blue cones/lights | Remarks |
|------------------|--|----------|---------------------|---------------|-----------|-------------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |  |          |                     |               |           |                         | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (10)  | 7.1.6 (11) |                             |         |
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)                 | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 3006             | THIOCARBAMATE PESTICIDE, LIQUID, TOXIC   | 6.1      | T6                  | II            | 6.1       | 61<br>274<br>648<br>802 | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 3006             | THIOCARBAMATE PESTICIDE, LIQUID, TOXIC   | 6.1      | T6                  | III           | 6.1       | 61<br>274<br>648<br>802 | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0          |                             |         |
| 3009             | COPPER BASED PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C  | 6.1      | TF2                 | I             | 6.1+3     | 61<br>274<br>802        | LQ0                             | E5           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 3009             | COPPER BASED PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C  | 6.1      | TF2                 | II            | 6.1+3     | 61<br>274<br>802        | LQ17                            | E4           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 3009             | COPPER BASED PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C  | 6.1      | TF2                 | III           | 6.1+3     | 61<br>274<br>802        | LQ7                             | E1           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 0          |                             |         |
| 3010             | COPPER BASED PESTICIDE, LIQUID, TOXIC  | 6.1      | T6                  | I             | 6.1       | 61<br>274<br>648<br>802 | LQ0                             | E5           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 3010             | COPPER BASED PESTICIDE, LIQUID, TOXIC  | 6.1      | T6                  | II            | 6.1       | 61<br>274<br>648<br>802 | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 3010             | COPPER BASED PESTICIDE, LIQUID, TOXIC  | 6.1      | T6                  | III           | 6.1       | 61<br>274<br>648<br>802 | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0          |                             |         |
| 3011             | MERCURY BASED PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C | 6.1      | TF2                 | I             | 6.1+3     | 61<br>274<br>802        | LQ0                             | E5           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 3011             | MERCURY BASED PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C | 6.1      | TF2                 | II            | 6.1+3     | 61<br>274<br>802        | LQ17                            | E4           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 3011             | MERCURY BASED PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C | 6.1      | TF2                 | III           | 6.1+3     | 61<br>274<br>802        | LQ7                             | E1           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 0          |                             |         |
| 3012             | MERCURY BASED PESTICIDE, LIQUID, TOXIC   | 6.1      | T6                  | I             | 6.1       | 61<br>274<br>648<br>802 | LQ0                             | E5           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 3012             | MERCURY BASED PESTICIDE, LIQUID, TOXIC   | 6.1      | T6                  | II            | 6.1       | 61<br>274<br>648<br>802 | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |

| UN No. or ID No. | Name and description   | Class    | Classification Code | Packing group | Labels    | Special provisions      | Limited and excepted quantities |              | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage |            | Number of blue cones/lights | Remarks |
|------------------|--|----------|---------------------|---------------|-----------|-------------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |  |          |                     |               |           |                         | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (10)  | 7.1.6 (11) |                             |         |
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)                 | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 3012             | MERCURY BASED PESTICIDE, LIQUID, TOXIC   | 6.1      | T6                  | III           | 6.1       | 61<br>274<br>648<br>802 | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0          |                             |         |
| 3013             | SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C | 6.1      | TF2                 | I             | 6.1+3     | 61<br>274<br>802        | LQ0                             | E5           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 3013             | SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C | 6.1      | TF2                 | II            | 6.1+3     | 61<br>274<br>802        | LQ17                            | E4           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 3013             | SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C | 6.1      | TF2                 | III           | 6.1+3     | 61<br>274<br>802        | LQ7                             | E1           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 0          |                             |         |
| 3014             | SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, TOXIC   | 6.1      | T6                  | I             | 6.1       | 61<br>274<br>648<br>802 | LQ0                             | E5           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 3014             | SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, TOXIC   | 6.1      | T6                  | II            | 6.1       | 61<br>274<br>648<br>802 | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 3014             | SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, TOXIC   | 6.1      | T6                  | III           | 6.1       | 61<br>274<br>648<br>802 | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0          |                             |         |
| 3015             | BIPYRIDILUM PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C             | 6.1      | TF2                 | I             | 6.1+3     | 61<br>274<br>802        | LQ0                             | E5           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 3015             | BIPYRIDILUM PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C             | 6.1      | TF2                 | II            | 6.1+3     | 61<br>274<br>802        | LQ17                            | E4           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 3015             | BIPYRIDILUM PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C             | 6.1      | TF2                 | III           | 6.1+3     | 61<br>274<br>802        | LQ7                             | E1           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 0          |                             |         |
| 3016             | BIPYRIDILUM PESTICIDE, LIQUID, TOXIC   | 6.1      | T6                  | I             | 6.1       | 61<br>274<br>648<br>802 | LQ0                             | E5           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 3016             | BIPYRIDILUM PESTICIDE, LIQUID, TOXIC   | 6.1      | T6                  | II            | 6.1       | 61<br>274<br>648<br>802 | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 3016             | BIPYRIDILUM PESTICIDE, LIQUID, TOXIC   | 6.1      | T6                  | III           | 6.1       | 61<br>274<br>648<br>802 | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0          |                             |         |

| UN No. or ID No. | Name and description  | Class    | Classification Code | Packing group | Labels    | Special provisions      | Limited and excepted quantities |              | Carriage permitted | Equipment required | Ventilation   | Provisions concerning loading, unloading and carriage |            | Number of blue cones/lights | Remarks |
|------------------|---|----------|---------------------|---------------|-----------|-------------------------|---------------------------------|--------------|--------------------|--------------------|---------------|---|------------|-----------------------------|---------|
|                  |   |          |                     |               |           |                         | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |               | 7.1.6 (10)  | 7.1.6 (11) |                             |         |
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)                 | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)    | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 3017             | ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C | 6.1      | TF2                 | I             | 6.1+3     | 61<br>274<br>802        | LQ0                             | E5           |                    | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 2          |                             |         |
| 3017             | ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C | 6.1      | TF2                 | II            | 6.1+3     | 61<br>274<br>802        | LQ17                            | E4           |                    | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 2          |                             |         |
| 3017             | ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C | 6.1      | TF2                 | III           | 6.1+3     | 61<br>274<br>802        | LQ7                             | E1           |                    | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 0          |                             |         |
| 3018             | ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC   | 6.1      | T6                  | I             | 6.1       | 61<br>274<br>648<br>802 | LQ0                             | E5           |                    | PP, EP, TOX, A     | VE02          |   | 2          |                             |         |
| 3018             | ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC   | 6.1      | T6                  | II            | 6.1       | 61<br>274<br>648<br>802 | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02          |   | 2          |                             |         |
| 3018             | ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC   | 6.1      | T6                  | III           | 6.1       | 61<br>274<br>648<br>802 | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02          |   | 0          |                             |         |
| 3019             | ORGANOTIN PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C        | 6.1      | TF2                 | I             | 6.1+3     | 61<br>274<br>802        | LQ0                             | E5           |                    | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 2          |                             |         |
| 3019             | ORGANOTIN PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C        | 6.1      | TF2                 | II            | 6.1+3     | 61<br>274<br>802        | LQ17                            | E4           |                    | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 2          |                             |         |
| 3019             | ORGANOTIN PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C        | 6.1      | TF2                 | III           | 6.1+3     | 61<br>274<br>802        | LQ7                             | E1           |                    | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 0          |                             |         |
| 3020             | ORGANOTIN PESTICIDE, LIQUID, TOXIC  | 6.1      | T6                  | I             | 6.1       | 61<br>274<br>648<br>802 | LQ0                             | E5           |                    | PP, EP, TOX, A     | VE02          |   | 2          |                             |         |
| 3020             | ORGANOTIN PESTICIDE, LIQUID, TOXIC  | 6.1      | T6                  | II            | 6.1       | 61<br>274<br>648<br>802 | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02          |   | 2          |                             |         |
| 3020             | ORGANOTIN PESTICIDE, LIQUID, TOXIC  | 6.1      | T6                  | III           | 6.1       | 61<br>274<br>648<br>802 | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02          |   | 0          |                             |         |
| 3021             | PESTICIDE, LIQUID, FLAMMABLE, TOXIC, N.O.S., flash-point less than 23 °C              | 3        | FT2                 | I             | 3+6.1     | 61<br>274<br>802        | LQ3                             | E0           |                    | PP, EP, EX, TOX, A | VE01,<br>VE02 |   | 2          |                             |         |

| UN No. or ID No. | Name and description   | Class    | Classification Code | Packing group | Labels    | Special provisions      | Limited and excepted quantities |              | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage |            | Number of blue cones/lights | Remarks |
|------------------|--|----------|---------------------|---------------|-----------|-------------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |  |          |                     |               |           |                         | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (10)  | 7.1.6 (11) |                             |         |
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)                 | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 3021             | PESTICIDE, LIQUID, FLAMMABLE, TOXIC, N.O.S., flash-point less than 23 °C                 | 3        | TF2                 | II            | 3+6.1     | 61<br>274<br>802        | LQ4                             | E2           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 3022             | 1,2-BUTYLENE OXIDE, STABILIZED   | 3        | F1                  | II            | 3         |                         | LQ4                             | E2           |                    | PP, EX, A          | VE01        |   | 1          |                             |         |
| 3023             | 2-METHYL-2-HEPTANETHIOL  | 6.1      | TF1                 | I             | 6.1+3     | 802                     | LQ0                             | E5           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 3024             | COUMARIN DERIVATIVE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C     | 3        | FT2                 | I             | 3+6.1     | 61<br>274<br>802        | LQ3                             | E0           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 3024             | COUMARIN DERIVATIVE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C     | 3        | FT2                 | II            | 3+6.1     | 61<br>274<br>802        | LQ4                             | E2           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 3025             | COUMARIN DERIVATIVE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C | 6.1      | TF2                 | I             | 6.1+3     | 61<br>274<br>802        | LQ0                             | E5           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 3025             | COUMARIN DERIVATIVE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C | 6.1      | TF2                 | II            | 6.1+3     | 61<br>274<br>802        | LQ17                            | E4           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 3025             | COUMARIN DERIVATIVE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C | 6.1      | TF2                 | III           | 6.1+3     | 61<br>274<br>802        | LQ7                             | E1           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 0          |                             |         |
| 3026             | COUMARIN DERIVATIVE PESTICIDE, LIQUID, TOXIC   | 6.1      | T6                  | I             | 6.1       | 61<br>274<br>648<br>802 | LQ0                             | E5           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 3026             | COUMARIN DERIVATIVE PESTICIDE, LIQUID, TOXIC   | 6.1      | T6                  | II            | 6.1       | 61<br>274<br>648<br>802 | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 3026             | COUMARIN DERIVATIVE PESTICIDE, LIQUID, TOXIC   | 6.1      | T6                  | III           | 6.1       | 61<br>274<br>648<br>802 | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0          |                             |         |
| 3027             | COUMARIN DERIVATIVE PESTICIDE, SOLID, TOXIC  | 6.1      | T7                  | I             | 6.1       | 61<br>274<br>648<br>802 | LQ0                             | E5           |                    | PP, EP             |             |   | 2          |                             |         |
| 3027             | COUMARIN DERIVATIVE PESTICIDE, SOLID, TOXIC  | 6.1      | T7                  | II            | 6.1       | 61<br>274<br>648<br>802 | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 3027             | COUMARIN DERIVATIVE PESTICIDE, SOLID, TOXIC  | 6.1      | T7                  | III           | 6.1       | 61<br>274<br>648<br>802 | LQ9                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |

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|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a) 3.5.1.2 (7b)         | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 3028             | BATTERIES, DRY, CONTAINING POTASSIUM HYDROXIDE SOLID, electric storage  | 8        | C11                 |               | 8         | 295<br>304<br>598  | LQ0 E0                          |                    | PP, EP             |             |   | 0                           |            |
| 3048             | ALUMINIUM PHOSPHIDE PESTICIDE   | 6.1      | T7                  | 1             | 6.1       | 153<br>648<br>802  | LQ0 E5                          |                    | PP, EP             |             |   | 2                           |            |
| 3054             | CYCLOHEXYL-MERCAPTAN  | 3        | F1                  | III           | 3         |                    | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 3055             | 2-(2-AMINOETHOXY)ETHANOL  | 8        | C7                  | III           | 8         |                    | LQ7 E1                          |                    | PP, EP             |             |   | 0                           |            |
| 3056             | n-HEPTALDEHYDE  | 3        | F1                  | III           | 3         |                    | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 3057             | TRIFLUOROACETYL CHLORIDE  | 2        | 2TC                 |               | 2.3+8     |                    | LQ0 E0                          |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3064             | NITROGLYCERIN, SOLUTION IN ALCOHOL with more than 1% but not more than 5% nitroglycerin   | 3        | D                   | II            | 3         |                    | LQ0 E0                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 3065             | ALCOHOLIC BEVERAGES, with more than 70% alcohol by volume   | 3        | F1                  | II            | 3         |                    | LQ5 E2                          |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 3065             | ALCOHOLIC BEVERAGES, with more than 24% but not more than 70% alcohol by volume   | 3        | F1                  | III           | 3         | 144<br>145<br>247  | LQ7 E1                          |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 3066             | PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound) | 8        | C9                  | II            | 8         | 163                | LQ22 E2                         |                    | PP, EP             |             |   | 0                           |            |
| 3066             | PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound) | 8        | C9                  | III           | 8         | 163                | LQ7 E1                          |                    | PP, EP             |             |   | 0                           |            |
| 3070             | ETHYLENE OXIDE AND DICHLORODIFLUOROMETHANE MIXTURE with not more than 12.5% ethylene oxide  | 2        | 2A                  |               | 2.2       |                    | LQ1 E1                          |                    | PP                 |             |   | 0                           |            |
| 3071             | MERCAPTANS, LIQUID, TOXIC, FLAMMABLE, N.O.S. or MERCAPTAN MIXTURE, LIQUID, TOXIC, FLAMMABLE, N.O.S.   | 6.1      | TF1                 | II            | 6.1+3     | 274<br>802         | LQ17 E4                         |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 3072             | LIFE-SAVING APPLIANCES NOT SELF-INFLATING containing dangerous goods as equipment   | 9        | M5                  |               | 9         | 296<br>635         | LQ0 E0                          |                    | PP                 |             |   | 0                           |            |
| 3073             | VINYLPYRIDINES, STABILIZED  | 6.1      | TFC                 | II            | 6.1+3+8   | 802                | LQ17 E4                         |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------------|---------------------------------|--------------------|-----------------------|---------------|---|-----------------------------|--|
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)                  | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)             | 7.1.6 (10)    | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13)   |
| 3077             | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.                                     | 9        | M7                  | III           | 9         | 274<br>335<br>601        | LQ27                            | T*<br>B**          | PP<br>A***            |               |   | 0                           | * Only in the molten state.<br>** For carriage in bulk see also 7.1.4.1.<br>*** Only in the case of transport in bulk. |
| 3078             | CERIUM, turnings or gritty powder  | 4.3      | W2                  | II            | 4.3       | 550                      | LQ11                            |                    | PP, EX, A             | VE01          | HA08  | 0                           |  |
| 3079             | METHACRYLONITRILE, STABILIZED  | 3        | FT1                 | I             | 3+6.1     | 802                      | LQ0                             | T                  | PP, EP, EX,<br>TOX, A | VE01,<br>VE02 |   | 2                           |  |
| 3080             | ISOCYANATES, TOXIC, FLAMMABLE, N.O.S. or ISOCYANATE SOLUTION, TOXIC, FLAMMABLE, N.O.S. | 6.1      | TF1                 | II            | 6.1+3     | 274<br>551<br>802        | LQ17                            |                    | PP, EP, EX,<br>TOX, A | VE01,<br>VE02 |   | 2                           |  |
| 3082             | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.                                    | 9        | M6                  | III           | 9         | 274<br>335<br>601        | LQ7                             | T                  | PP                    |               |   | 0                           |  |
| 3083             | PERCHLORYL FLUORIDE  | 2        | 2TO                 |               | 2.3+5.1   |                          | LQ0                             |                    | PP, EP, TOX,<br>A     | VE02          |   | 2                           |  |
| 3084             | CORROSIVE SOLID, OXIDIZING, N.O.S.   | 8        | CO2                 | I             | 8+5.1     | 274                      | LQ0                             |                    | PP, EP                |               |   | 0                           |  |
| 3084             | CORROSIVE SOLID, OXIDIZING, N.O.S.   | 8        | CO2                 | II            | 8+5.1     | 274                      | LQ23                            |                    | PP, EP                |               |   | 0                           |  |
| 3085             | OXIDIZING SOLID, CORROSIVE, N.O.S.   | 5.1      | OC2                 | I             | 5.1+8     | 274                      | LQ0                             |                    | PP                    |               |   | 0                           |  |
| 3085             | OXIDIZING SOLID, CORROSIVE, N.O.S.   | 5.1      | OC2                 | II            | 5.1+8     | 274                      | LQ11                            |                    | PP                    |               |   | 0                           |  |
| 3085             | OXIDIZING SOLID, CORROSIVE, N.O.S.   | 5.1      | OC2                 | III           | 5.1+8     | 274                      | LQ12                            |                    | PP                    |               |   | 0                           |  |
| 3086             | TOXIC SOLID, OXIDIZING, N.O.S.   | 6.1      | TO2                 | I             | 6.1+5.1   | 274<br>802               | LQ0                             |                    | PP, EP                |               |   | 2                           |  |
| 3086             | TOXIC SOLID, OXIDIZING, N.O.S.   | 6.1      | TO2                 | II            | 6.1+5.1   | 274                      | LQ18                            |                    | PP, EP                |               |   | 2                           |  |
| 3087             | OXIDIZING SOLID, TOXIC, N.O.S.   | 5.1      | OT2                 | I             | 5.1+6.1   | 274<br>802               | LQ0                             |                    | PP                    |               |   | 2                           |  |
| 3087             | OXIDIZING SOLID, TOXIC, N.O.S.   | 5.1      | OT2                 | II            | 5.1+6.1   | 274                      | LQ11                            |                    | PP                    |               |   | 2                           |  |
| 3087             | OXIDIZING SOLID, TOXIC, N.O.S.   | 5.1      | OT2                 | III           | 5.1+6.1   | 274<br>802               | LQ12                            |                    | PP                    |               |   | 0                           |  |
| 3088             | SELF-HEATING SOLID, ORGANIC, N.O.S.  | 4.2      | S2                  | II            | 4.2       | 274                      | LQ0                             |                    | PP                    |               |   | 0                           |  |
| 3088             | SELF-HEATING SOLID, ORGANIC, N.O.S.  | 4.2      | S2                  | III           | 4.2       | 274                      | LQ0                             |                    | PP                    |               |   | 0                           |  |
| 3089             | METAL POWDER, FLAMMABLE, N.O.S.  | 4.1      | F3                  | II            | 4.1       | 274<br>552               | LQ8                             |                    | PP                    |               |   | 1                           |  |
| 3089             | METAL POWDER, FLAMMABLE, N.O.S.  | 4.1      | F3                  | III           | 4.1       | 274<br>552               | LQ9                             |                    | PP                    |               |   | 0                           |  |
| 3090             | LITHIUM METAL BATTERIES (including lithium alloy batteries)                            | 9        | M4                  | II            | 9         | 188<br>230<br>310<br>636 | LQ0                             |                    | PP                    |               |   | 0                           |  |

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|----------------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)                        | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a) 3.5.1.2 (7b)         | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 3091                       | LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT or LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT (including lithium alloy batteries) | 9        | M4                  | II            | 9         | 188<br>230<br>636  | LQ0 E0                          |                    | PP                 |             |   | 0                           |            |
| 3092                       | 1-METHOXY-2-PROPANOL  | 3        | F1                  | III           | 3         |                    | LQ7 E1                          | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 3093                       | CORROSIVE LIQUID, OXIDIZING, N.O.S.   | 8        | CO1                 | I             | 8+5.1     | 274                | LQ0 E0                          |                    | PP, EP             |             |   | 0                           |            |
| 3093                       | CORROSIVE LIQUID, OXIDIZING, N.O.S.   | 8        | CO1                 | II            | 8+5.1     | 274                | LQ22 E2                         |                    | PP, EP             |             |   | 0                           |            |
| 3094                       | CORROSIVE LIQUID, WATER-REACTIVE, N.O.S.  | 8        | CW1                 | I             | 8+4.3     | 274                | LQ0 E0                          |                    | PP, EP             |             |   | 0                           |            |
| 3094                       | CORROSIVE LIQUID, WATER-REACTIVE, N.O.S.  | 8        | CW1                 | II            | 8+4.3     | 274                | LQ22 E2                         |                    | PP, EP             |             |   | 0                           |            |
| 3095                       | CORROSIVE SOLID, SELF-HEATING, N.O.S.   | 8        | CS2                 | I             | 8+4.2     | 274                | LQ0 E0                          |                    | PP, EP             |             |   | 0                           |            |
| 3095                       | CORROSIVE SOLID, SELF-HEATING, N.O.S.   | 8        | CS2                 | II            | 8+4.2     | 274                | LQ23 E2                         |                    | PP, EP             |             |   | 0                           |            |
| 3096                       | CORROSIVE SOLID, WATER-REACTIVE, N.O.S.   | 8        | CW2                 | I             | 8+4.3     | 274                | LQ0 E0                          |                    | PP, EP             |             |   | 0                           |            |
| 3096                       | CORROSIVE SOLID, WATER-REACTIVE, N.O.S.   | 8        | CW2                 | II            | 8+4.3     | 274                | LQ23 E2                         |                    | PP, EP             |             |   | 0                           |            |
| <b>CARRIAGE PROHIBITED</b> |   |          |                     |               |           |                    |                                 |                    |                    |             |   |                             |            |
| 3097                       | FLAMMABLE SOLID, OXIDIZING, N.O.S.  | 4.1      | FO                  |               |           |                    |                                 |                    |                    |             |   |                             |            |
| 3098                       | OXIDIZING LIQUID, CORROSIVE, N.O.S.   | 5.1      | OC1                 | I             | 5.1+8     | 274                | LQ0 E0                          |                    | PP, EP             |             |   | 0                           |            |
| 3098                       | OXIDIZING LIQUID, CORROSIVE, N.O.S.   | 5.1      | OC1                 | II            | 5.1+8     | 274                | LQ10 E2                         |                    | PP, EP             |             |   | 0                           |            |
| 3098                       | OXIDIZING LIQUID, CORROSIVE, N.O.S.   | 5.1      | OC1                 | III           | 5.1+8     | 274                | LQ13 E1                         |                    | PP, EP             |             |   | 0                           |            |
| 3099                       | OXIDIZING LIQUID, TOXIC, N.O.S.   | 5.1      | OT1                 | I             | 5.1+6.1   | 274                | LQ0 E0                          |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3099                       | OXIDIZING LIQUID, TOXIC, N.O.S.   | 5.1      | OT1                 | II            | 5.1+6.1   | 802                | LQ10 E2                         |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3099                       | OXIDIZING LIQUID, TOXIC, N.O.S.   | 5.1      | OT1                 | III           | 5.1+6.1   | 802                | LQ13 E1                         |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| <b>CARRIAGE PROHIBITED</b> |   |          |                     |               |           |                    |                                 |                    |                    |             |   |                             |            |
| 3100                       | OXIDIZING SOLID, SELF-HEATING, N.O.S.   | 5.1      | OS                  |               |           |                    |                                 |                    |                    |             |   |                             |            |
| 3101                       | ORGANIC PEROXIDE TYPE B, LIQUID   | 5.2      | P1                  |               | 5.2+1     | 122<br>181<br>274  | LQ14 E0                         |                    | PP, EX, A          | VE01        | HA01,<br>HA10   | 3                           |            |
| 3102                       | ORGANIC PEROXIDE TYPE B, SOLID  | 5.2      | P1                  |               | 5.2+1     | 122<br>181<br>274  | LQ15 E0                         |                    | PP, EX, A          | VE01        | HA01,<br>HA10   | 3                           |            |
| 3103                       | ORGANIC PEROXIDE TYPE C, LIQUID   | 5.2      | P1                  |               | 5.2       | 274                | LQ14 E0                         |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 3104                       | ORGANIC PEROXIDE TYPE C, SOLID  | 5.2      | P1                  |               | 5.2       | 274                | LQ15 E0                         |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 3105                       | ORGANIC PEROXIDE TYPE D, LIQUID   | 5.2      | P1                  |               | 5.2       | 274                | LQ16 E0                         |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 3106                       | ORGANIC PEROXIDE TYPE D, SOLID  | 5.2      | P1                  |               | 5.2       | 274                | LQ11 E0                         |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 3107                       | ORGANIC PEROXIDE TYPE E, LIQUID   | 5.2      | P1                  |               | 5.2       | 274                | LQ16 E0                         |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 3108                       | ORGANIC PEROXIDE TYPE E, SOLID  | 5.2      | P1                  |               | 5.2       | 274                | LQ11 E0                         |                    | PP, EX, A          | VE01        |   | 0                           |            |

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|----------------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)                        | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 3109                       | ORGANIC PEROXIDE TYPE F, LIQUID                         | 5.2      | P1                  |               | 5.2       | 122<br>274         | LQ16<br>E0                      |                    | PP, EX. A          | VE01        |   | 0                           |            |
| 3110                       | ORGANIC PEROXIDE TYPE F, SOLID                          | 5.2      | P1                  |               | 5.2       | 122<br>274         | LQ11<br>E0                      |                    | PP, EX. A          | VE01        |   | 0                           |            |
| 3111                       | ORGANIC PEROXIDE TYPE B, LIQUID, TEMPERATURE CONTROLLED | 5.2      | P2                  |               | 5.2+1     | 122<br>181<br>274  | LQ0<br>E0                       |                    | PP, EX. A          | VE01        | HA01,<br>HA10   | 3                           |            |
| 3112                       | ORGANIC PEROXIDE TYPE B, SOLID, TEMPERATURE CONTROLLED  | 5.2      | P2                  |               | 5.2+1     | 122<br>181<br>274  | LQ0<br>E0                       |                    | PP, EX. A          | VE01        | HA01,<br>HA10   | 3                           |            |
| 3113                       | ORGANIC PEROXIDE TYPE C, LIQUID, TEMPERATURE CONTROLLED | 5.2      | P2                  |               | 5.2       | 122<br>274         | LQ0<br>E0                       |                    | PP, EX. A          | VE01        |   | 0                           |            |
| 3114                       | ORGANIC PEROXIDE TYPE C, SOLID, TEMPERATURE CONTROLLED  | 5.2      | P2                  |               | 5.2       | 122<br>274         | LQ0<br>E0                       |                    | PP, EX. A          | VE01        |   | 0                           |            |
| 3115                       | ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED | 5.2      | P2                  |               | 5.2       | 122<br>274         | LQ0<br>E0                       |                    | PP, EX. A          | VE01        |   | 0                           |            |
| 3116                       | ORGANIC PEROXIDE TYPE D, SOLID, TEMPERATURE CONTROLLED  | 5.2      | P2                  |               | 5.2       | 122<br>274         | LQ0<br>E0                       |                    | PP, EX. A          | VE01        |   | 0                           |            |
| 3117                       | ORGANIC PEROXIDE TYPE E, LIQUID, TEMPERATURE CONTROLLED | 5.2      | P2                  |               | 5.2       | 122<br>274         | LQ0<br>E0                       |                    | PP, EX. A          | VE01        |   | 0                           |            |
| 3118                       | ORGANIC PEROXIDE TYPE E, SOLID, TEMPERATURE CONTROLLED  | 5.2      | P2                  |               | 5.2       | 122<br>274         | LQ0<br>E0                       |                    | PP, EX. A          | VE01        |   | 0                           |            |
| 3119                       | ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED | 5.2      | P2                  |               | 5.2       | 122<br>274         | LQ0<br>E0                       |                    | PP, EX. A          | VE01        |   | 0                           |            |
| 3120                       | ORGANIC PEROXIDE TYPE F, SOLID, TEMPERATURE CONTROLLED  | 5.2      | P2                  |               | 5.2       | 122<br>274         | LQ0<br>E0                       |                    | PP, EX. A          | VE01        |   | 0                           |            |
| 3121                       | OXIDIZING SOLID, WATER-REACTIVE, N.O.S.                 | 5.1      | OW                  |               |           |                    |                                 |                    |                    |             |   |                             |            |
| <b>CARRIAGE PROHIBITED</b> |   |          |                     |               |           |                    |                                 |                    |                    |             |   |                             |            |
| 3122                       | TOXIC LIQUID, OXIDIZING, N.O.S.                         | 6.1      | TO1                 | I             | 6.1+5.1   | 274<br>315<br>802  | LQ0<br>E5                       |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3122                       | TOXIC LIQUID, OXIDIZING, N.O.S.                         | 6.1      | TO1                 | II            | 6.1+5.1   | 274<br>802         | LQ17<br>E4                      |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3123                       | TOXIC LIQUID, WATER-REACTIVE, N.O.S.                    | 6.1      | TW1                 | I             | 6.1+4.3   | 274<br>315<br>802  | LQ0<br>E5                       |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3123                       | TOXIC LIQUID, WATER-REACTIVE, N.O.S.                    | 6.1      | TW1                 | II            | 6.1+4.3   | 274<br>802         | LQ17<br>E4                      |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3124                       | TOXIC SOLID, SELF-HEATING, N.O.S.                       | 6.1      | TS                  | I             | 6.1+4.2   | 274<br>802         | LQ0<br>E5                       |                    | PP, EP             |             |   | 2                           |            |
| 3124                       | TOXIC SOLID, SELF-HEATING, N.O.S.                       | 6.1      | TS                  | II            | 6.1+4.2   | 274<br>802         | LQ18<br>E4                      |                    | PP, EP             |             |   | 2                           |            |
| 3125                       | TOXIC SOLID, WATER-REACTIVE, N.O.S.                     | 6.1      | TW2                 | I             | 6.1+4.3   | 274<br>802         | LQ0<br>E5                       |                    | PP, EP             |             |   | 2                           |            |
| 3125                       | TOXIC SOLID, WATER-REACTIVE, N.O.S.                     | 6.1      | TW2                 | II            | 6.1+4.3   | 274<br>802         | LQ18<br>E4                      |                    | PP, EP             |             |   | 2                           |            |



| UN No. or ID No. | Name and description                           | Class    | Classification Code | Packing group | Labels    | Special provisions | Limited and excepted quantities | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage | Number of blue cones/lights | Remarks    |
|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)                                      | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 3126             | SELF-HEATING SOLID, CORROSIVE, ORGANIC, N.O.S. | 4.2      | SC2                 | II            | 4.2+8     | 274                | LQ0                             | E2                 | PP                 |             |   | 0                           |            |
| 3126             | SELF-HEATING SOLID, CORROSIVE, ORGANIC, N.O.S. | 4.2      | SC2                 | III           | 4.2+8     | 274                | LQ0                             | E1                 | PP                 |             |   | 0                           |            |
| 3127             | SELF-HEATING SOLID, OXIDIZING, N.O.S.          | 4.2      | SO                  |               |           |                    |                                 |                    |                    |             |   |                             |            |
| 3128             | SELF-HEATING SOLID, TOXIC, ORGANIC, N.O.S.     | 4.2      | ST2                 | II            | 4.2+6.1   | 274                | LQ0                             | E2                 | PP                 |             |   | 2                           |            |
| 3128             | SELF-HEATING SOLID, TOXIC, ORGANIC, N.O.S.     | 4.2      | ST2                 | III           | 4.2+6.1   | 274                | LQ0                             | E1                 | PP                 |             |   | 0                           |            |
| 3129             | WATER-REACTIVE LIQUID, CORROSIVE, N.O.S.       | 4.3      | WC1                 | I             | 4.3+8     | 274                | LQ0                             | E0                 | PP, EP, EX, A      | VE01        | HA08  | 0                           |            |
| 3129             | WATER-REACTIVE LIQUID, CORROSIVE, N.O.S.       | 4.3      | WC1                 | II            | 4.3+8     | 274                | LQ10                            | E2                 | PP, EP, EX, A      | VE01        | HA08  | 0                           |            |
| 3129             | WATER-REACTIVE LIQUID, CORROSIVE, N.O.S.       | 4.3      | WC1                 | III           | 4.3+8     | 274                | LQ13                            | E1                 | PP, EP, EX, A      | VE01        | HA08  | 0                           |            |
| 3130             | WATER-REACTIVE LIQUID, TOXIC, N.O.S.           | 4.3      | WT1                 | I             | 4.3+6.1   | 274                | LQ0                             | E0                 | PP, EP, EX, TOX, A | VE01, VE02  | HA08  | 2                           |            |
| 3130             | WATER-REACTIVE LIQUID, TOXIC, N.O.S.           | 4.3      | WT1                 | II            | 4.3+6.1   | 274                | LQ10                            | E2                 | PP, EP, EX, TOX, A | VE01, VE02  | HA08  | 2                           |            |
| 3130             | WATER-REACTIVE LIQUID, TOXIC, N.O.S.           | 4.3      | WT1                 | III           | 4.3+6.1   | 274                | LQ13                            | E1                 | PP, EP, EX, TOX, A | VE01, VE02  | HA08  | 0                           |            |
| 3131             | WATER-REACTIVE SOLID, CORROSIVE, N.O.S.        | 4.3      | WC2                 | I             | 4.3+8     | 274                | LQ0                             | E0                 | PP, EP, EX, A      | VE01        | HA08  | 0                           |            |
| 3131             | WATER-REACTIVE SOLID, CORROSIVE, N.O.S.        | 4.3      | WC2                 | II            | 4.3+8     | 274                | LQ11                            | E2                 | PP, EP, EX, A      | VE01        | HA08  | 0                           |            |
| 3131             | WATER-REACTIVE SOLID, CORROSIVE, N.O.S.        | 4.3      | WC2                 | III           | 4.3+8     | 274                | LQ12                            | E1                 | PP, EP, EX, A      | VE01        | HA08  | 0                           |            |
| 3132             | WATER-REACTIVE SOLID, FLAMMABLE, N.O.S.        | 4.3      | WF2                 | I             | 4.3+4.1   | 274                | LQ0                             | E0                 | PP, EX, A          | VE01        |   | 1                           |            |
| 3132             | WATER-REACTIVE SOLID, FLAMMABLE, N.O.S.        | 4.3      | WF2                 | II            | 4.3+4.1   | 274                | LQ11                            | E2                 | PP, EX, A          | VE01        |   | 1                           |            |
| 3132             | WATER-REACTIVE SOLID, FLAMMABLE, N.O.S.        | 4.3      | WF2                 | III           | 4.3+4.1   | 274                | LQ12                            | E1                 | PP, EX, A          | VE01        |   | 0                           |            |
| 3133             | WATER-REACTIVE SOLID, OXIDIZING, N.O.S.        | 4.3      | WO                  |               |           |                    |                                 |                    |                    |             |   |                             |            |
| 3134             | WATER-REACTIVE SOLID, TOXIC, N.O.S.            | 4.3      | WT2                 | I             | 4.3+6.1   | 274                | LQ0                             | E0                 | PP, EP, EX, A      | VE01        | HA08  | 2                           |            |
| 3134             | WATER-REACTIVE SOLID, TOXIC, N.O.S.            | 4.3      | WT2                 | II            | 4.3+6.1   | 274                | LQ11                            | E2                 | PP, EP, EX, A      | VE01        | HA08  | 2                           |            |
| 3134             | WATER-REACTIVE SOLID, TOXIC, N.O.S.            | 4.3      | WT2                 | III           | 4.3+6.1   | 274                | LQ12                            | E1                 | PP, EP, EX, A      | VE01        | HA08  | 0                           |            |
| 3135             | WATER-REACTIVE SOLID, SELF-HEATING, N.O.S.     | 4.3      | WS                  | I             | 4.3+4.2   | 274                | LQ0                             | E0                 | PP, EX, A          | VE01        |   | 0                           |            |
| 3135             | WATER-REACTIVE SOLID, SELF-HEATING, N.O.S.     | 4.3      | WS                  | II            | 4.3+4.2   | 274                | LQ11                            | E2                 | PP, EX, A          | VE01        |   | 0                           |            |

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|------------------|---|-------------|---------------------|----------------|--------------|-------------------------|---------------------------------|--------------------|----------------------------|---------------|---|-----------------------------|---------------|
| (1)              | 3.1.2<br>(2)  | 2.2<br>(3a) | 2.2<br>(3b)         | 2.1.1.3<br>(4) | 5.2.2<br>(5) | 3.3<br>(6)              | 3.4.6<br>(7a)                   | 3.2.1<br>(8)       | 8.1.5<br>(9)               | 7.1.6<br>(10) | 7.1.6<br>(11)   | 7.1.5<br>(12)               | 3.2.1<br>(13) |
| 3135             | WATER-REACTIVE SOLID, SELF-HEATING, N.O.S.  | 4.3         | WS                  | III            | 4.3+4.2      | 274                     | LQ12                            | E1                 | PP,EX,A                    | VE01          |   | 0                           |               |
| 3136             | TRIFLUOROMETHANE, REFRIGERATED LIQUID   | 2           | 3A                  |                | 2.2          | 593                     | LQ1                             | E1                 | PP                         |               |   | 0                           |               |
| 3137             | OXIDIZING SOLID, FLAMMABLE, N.O.S.  | 5.1         | OF                  |                |              |                         |                                 |                    | <b>CARRIAGE PROHIBITED</b> |               |   |                             |               |
| 3138             | ETHYLENE, ACETYLENE AND PROPYLENE MIXTURE, REFRIGERATED LIQUID containing at least 71.5% ethylene with not more than 22.5% acetylene and not more than 6% propylene | 2           | 3F                  |                | 2.1          |                         | LQ0                             | E0                 | PP, EX, A                  | VE01          |   | 1                           |               |
| 3139             | OXIDIZING LIQUID, N.O.S.  | 5.1         | O1                  | I              | 5.1          | 274                     | LQ0                             | E0                 | PP                         |               |   | 0                           |               |
| 3139             | OXIDIZING LIQUID, N.O.S.  | 5.1         | O1                  | II             | 5.1          | 274                     | LQ10                            | E2                 | PP                         |               |   | 0                           |               |
| 3139             | OXIDIZING LIQUID, N.O.S.  | 5.1         | O1                  | III            | 5.1          | 274                     | LQ13                            | E1                 | PP                         |               |   | 0                           |               |
| 3140             | ALKALOIDS, LIQUID, N.O.S. or ALKALOID SALTS, LIQUID, N.O.S.   | 6.1         | T1                  | I              | 6.1          | 43<br>274               | LQ0                             | E5                 | PP, EP, TOX, A             | VE02          |   | 2                           |               |
| 3140             | ALKALOIDS, LIQUID, N.O.S. or ALKALOID SALTS, LIQUID, N.O.S.   | 6.1         | T1                  | II             | 6.1          | 43<br>274<br>802        | LQ17                            | E4                 | PP, EP, TOX, A             | VE02          |   | 2                           |               |
| 3140             | ALKALOIDS, LIQUID, N.O.S. or ALKALOID SALTS, LIQUID, N.O.S.   | 6.1         | T1                  | III            | 6.1          | 43<br>274<br>802        | LQ7                             | E1                 | PP, EP, TOX, A             | VE02          |   | 0                           |               |
| 3141             | ANTIMONY COMPOUND, INORGANIC, LIQUID, N.O.S.  | 6.1         | T4                  | III            | 6.1          | 45<br>274<br>512<br>802 | LQ7                             | E1                 | PP, EP, TOX, A             | VE02          |   | 0                           |               |
| 3142             | DISINFECTANT, LIQUID, TOXIC, N.O.S.   | 6.1         | T1                  | I              | 6.1          | 274<br>802              | LQ0                             | E5                 | PP, EP, TOX, A             | VE02          |   | 2                           |               |
| 3142             | DISINFECTANT, LIQUID, TOXIC, N.O.S.   | 6.1         | T1                  | II             | 6.1          | 274<br>802              | LQ17                            | E4                 | PP, EP, TOX, A             | VE02          |   | 2                           |               |
| 3142             | DISINFECTANT, LIQUID, TOXIC, N.O.S.   | 6.1         | T1                  | III            | 6.1          | 274<br>802              | LQ7                             | E1                 | PP, EP, TOX, A             | VE02          |   | 0                           |               |
| 3143             | DYE, SOLID, TOXIC, N.O.S. or DYE INTERMEDIATE, SOLID, TOXIC, N.O.S.   | 6.1         | T2                  | I              | 6.1          | 274<br>802              | LQ0                             | E5                 | PP, EP                     |               |   | 2                           |               |
| 3143             | DYE, SOLID, TOXIC, N.O.S. or DYE INTERMEDIATE, SOLID, TOXIC, N.O.S.   | 6.1         | T2                  | II             | 6.1          | 274<br>802              | LQ18                            | E4                 | PP, EP                     |               |   | 2                           |               |
| 3143             | DYE, SOLID, TOXIC, N.O.S. or DYE INTERMEDIATE, SOLID, TOXIC, N.O.S.   | 6.1         | T2                  | III            | 6.1          | 274<br>802              | LQ9                             | E1                 | PP, EP                     |               |   | 0                           |               |
| 3144             | NICOTINE COMPOUND, LIQUID, N.O.S. or NICOTINE PREPARATION, LIQUID, N.O.S.   | 6.1         | T1                  | I              | 6.1          | 43<br>274<br>802        | LQ0                             | E5                 | PP, EP, TOX, A             | VE02          |   | 2                           |               |
| 3144             | NICOTINE COMPOUND, LIQUID, N.O.S. or NICOTINE PREPARATION, LIQUID, N.O.S.   | 6.1         | T1                  | II             | 6.1          | 43<br>274<br>802        | LQ17                            | E4                 | PP, EP, TOX, A             | VE02          |   | 2                           |               |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
|                  |  |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             |   |                             |            |
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 3144             | NICOTINE COMPOUND, LIQUID, N.O.S. or NICOTINE PREPARATION, LIQUID, N.O.S.  | 6.1      | T1                  | III           | 6.1       | 43<br>274<br>802   | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 3145             | ALKYLPHENOLS, LIQUID, N.O.S. (including C <sub>7</sub> -C <sub>12</sub> homologues)                                    | 8        | C3                  | I             | 8         | 274                | LQ0                             | E0           |                    | PP, EP             |             |   | 0                           |            |
| 3145             | ALKYLPHENOLS, LIQUID, N.O.S. (including C <sub>2</sub> -C <sub>12</sub> homologues)                                    | 8        | C3                  | II            | 8         | 274                | LQ22                            | E2           | T                  | PP, EP             |             |   | 0                           |            |
| 3145             | ALKYLPHENOLS, LIQUID, N.O.S. (including C <sub>2</sub> -C <sub>12</sub> homologues)                                    | 8        | C3                  | III           | 8         | 274                | LQ7                             | E1           | T                  | PP, EP             |             |   | 0                           |            |
| 3146             | ORGANOTIN COMPOUND, SOLID, N.O.S.  | 6.1      | T3                  | I             | 6.1       | 43<br>274<br>802   | LQ0                             | E5           |                    | PP, EP             |             |   | 2                           |            |
| 3146             | ORGANOTIN COMPOUND, SOLID, N.O.S.  | 6.1      | T3                  | II            | 6.1       | 43<br>274<br>802   | LQ18                            | E4           |                    | PP, EP             |             |   | 2                           |            |
| 3146             | ORGANOTIN COMPOUND, SOLID, N.O.S.  | 6.1      | T3                  | III           | 6.1       | 43<br>274<br>802   | LQ9                             | E1           |                    | PP, EP             |             |   | 0                           |            |
| 3147             | DYE, SOLID, CORROSIVE, N.O.S. or DYE INTERMEDIATE, SOLID, CORROSIVE, N.O.S.  | 8        | C10                 | I             | 8         | 274                | LQ0                             | E0           |                    | PP, EP             |             |   | 0                           |            |
| 3147             | DYE, SOLID, CORROSIVE, N.O.S. or DYE INTERMEDIATE, SOLID, CORROSIVE, N.O.S.  | 8        | C10                 | II            | 8         | 274                | LQ23                            | E2           |                    | PP, EP             |             |   | 0                           |            |
| 3147             | DYE, SOLID, CORROSIVE, N.O.S. or DYE INTERMEDIATE, SOLID, CORROSIVE, N.O.S.  | 8        | C10                 | III           | 8         | 274                | LQ24                            | E1           |                    | PP, EP             |             |   | 0                           |            |
| 3148             | WATER-REACTIVE LIQUID, N.O.S.  | 4.3      | W1                  | I             | 4.3       | 274                | LQ0                             | E0           |                    | PP, EX, A          | VE01        | HA08  | 0                           |            |
| 3148             | WATER-REACTIVE LIQUID, N.O.S.  | 4.3      | W1                  | II            | 4.3       | 274                | LQ10                            | E2           |                    | PP, EX, A          | VE01        | HA08  | 0                           |            |
| 3148             | WATER-REACTIVE LIQUID, N.O.S.  | 4.3      | W1                  | III           | 4.3       | 274                | LQ13                            | E1           |                    | PP, EX, A          | VE01        | HA08  | 0                           |            |
| 3149             | HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE with acid(s), water and not more than 5% peroxyacetic acid, STABILIZED | 5.1      | OC1                 | II            | 5.1+8     | 196<br>553         | LQ10                            | E2           |                    | PP, EP             |             |   | 0                           |            |
| 3150             | DEVICES, SMALL, HYDROCARBON GAS POWERED or HYDROCARBON GAS REFILLS FOR SMALL DEVICES with release device               | 2        | 6F                  |               | 2.1       |                    | LQ0                             | E0           |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 3151             | POLYHALOGENATED BIPHENYLS, LIQUID or POLYHALOGENATED TERPHENYLS, LIQUID  | 9        | M2                  | II            | 9         | 203<br>305<br>802  | LQ26                            | E2           |                    | PP, EP             |             |   | 0                           |            |
| 3152             | POLYHALOGENATED BIPHENYLS, SOLID or POLYHALOGENATED TERPHENYLS, SOLID  | 9        | M2                  | II            | 9         | 203<br>305<br>802  | LQ25                            | E2           |                    | PP, EP             |             |   | 0                           |            |
| 3153             | PERFLUORO(METHYL VINYL ETHER)  | 2        | 2F                  |               | 2.1       |                    | LQ0                             | E0           |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 3154             | PERFLUORO(ETHYL VINYL ETHER)   | 2        | 2F                  |               | 2.1       |                    | LQ0                             | E0           |                    | PP, EX, A          | VE01        |   | 1                           |            |

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|---------------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|--|
| (1)                       | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13)   |
| 3155                      | PENTACHLOROPHENOL  | 6.1      | T2                  | II            | 6.1       | 43                 | LQ18                            | E4                 | PP, EP             |             |   | 2                           |  |
| 3156                      | COMPRESSED GAS, OXIDIZING, N.O.S.  | 2        | IO                  |               | 2.2+5.1   | 274                | LQ0                             | E0                 | PP                 |             |   | 0                           |  |
| 3157                      | LIQUEFIED GAS, OXIDIZING, N.O.S.   | 2        | 20                  |               | 2.2+5.1   | 274                | LQ0                             | E0                 | PP                 |             |   | 0                           |  |
| 3158                      | GAS, REFRIGERATED LIQUID, N.O.S.   | 2        | 3A                  |               | 2.2       | 274                | LQ1                             | E1                 | PP                 |             |   | 0                           |  |
| 3159                      | 1,1,1,2-TETRAFLUOROETHANE (REFRIGERANT GAS R134a)  | 2        | 2A                  |               | 2.2       | 593                | LQ1                             | E1                 | PP                 |             |   | 0                           |  |
| 3160                      | LIQUEFIED GAS, TOXIC, FLAMMABLE, N.O.S.  | 2        | 2TF                 |               | 2.3+2.1   | 274                | LQ0                             | E0                 | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |  |
| 3161                      | LIQUEFIED GAS, FLAMMABLE, N.O.S.   | 2        | 2F                  |               | 2.1       | 274                | LQ0                             | E0                 | PP, EX, A          | VE01        |   | 1                           |  |
| 3162                      | LIQUEFIED GAS, TOXIC, N.O.S.   | 2        | 2T                  |               | 2.3       | 274                | LQ0                             | E0                 | PP, EP, TOX, A     | VE02        |   | 2                           |  |
| 3163                      | LIQUEFIED GAS, N.O.S.  | 2        | 2A                  |               | 2.2       | 274                | LQ1                             | E1                 | PP                 |             |   | 0                           |  |
| 3164                      | ARTICLES, PRESSURIZED, PNEUMATIC or HYDRAULIC (containing non-flammable gas)   | 2        | 6A                  |               | 2.2       | 283                | LQ0                             | E0                 | PP                 |             |   | 0                           |  |
| 3165                      | AIRCRAFT HYDRAULIC POWER UNIT FUEL TANK (containing a mixture of anhydrous hydrazine and methylhydrazine) (M86 fuel) | 3        | FTC                 | I             | 3+6.1+8   | 802                | LQ0                             | E0                 | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |  |
| 3166                      | Engine, internal combustion or vehicle, flammable gas powered or vehicle, flammable liquid powered                   | 9        | M11                 |               |           |                    |                                 |                    |                    |             |   |                             |  |
| <b>NOT SUBJECT TO ADN</b> |  |          |                     |               |           |                    |                                 |                    |                    |             |   |                             |  |
| 3167                      | GAS SAMPLE, NON-PRESSURIZED, FLAMMABLE, N.O.S., not refrigerated liquid  | 2        | 7F                  |               | 2.1       | 274                | LQ0                             | E0                 | PP, EX, A          | VE01        |   | 1                           |  |
| 3168                      | GAS SAMPLE, NON-PRESSURIZED, TOXIC, FLAMMABLE, N.O.S., not refrigerated liquid                                       | 2        | 7TF                 |               | 2.3+2.1   | 274                | LQ0                             | E0                 | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |  |
| 3169                      | GAS SAMPLE, NON-PRESSURIZED, TOXIC, N.O.S., not refrigerated liquid  | 2        | 7T                  |               | 2.3       | 274                | LQ0                             | E0                 | PP, EP, TOX, A     | VE02        |   | 2                           |  |
| 3170                      | ALUMINIUM SMELTING BY-PRODUCTS or ALUMINIUM REMELTING BY-PRODUCTS  | 4.3      | W2                  | II            | 4.3       | 244                | LQ11                            | E2                 | PP, EX, A          | VE01        | HA08  | 0                           |  |
| 3170                      | ALUMINIUM SMELTING BY-PRODUCTS or ALUMINIUM REMELTING BY-PRODUCTS  | 4.3      | W2                  | III           | 4.3       | 244                | LQ12                            | E1                 | PP, EX, A          | VE01, VE03  | LO03 HA07, HA08                                       | 0                           | VE03, LO03, HA07, IN01, IN02 and IN03 apply only when this substance is carried in bulk or without packaging |
| 3171                      | Battery-powered vehicle or Battery-powered equipment   | 9        | M11                 |               |           |                    |                                 |                    |                    |             |   |                             |  |
| <b>NOT SUBJECT TO ADN</b> |  |          |                     |               |           |                    |                                 |                    |                    |             |   |                             |  |
| 3172                      | TOXINS, EXTRACTED FROM LIVING SOURCES, LIQUID, N.O.S.  | 6.1      | T1                  | I             | 6.1       | 210                | LQ0                             | E5                 | PP, EP, TOX, A     | VE02        |   | 2                           |  |
| 3172                      | TOXINS, EXTRACTED FROM LIVING SOURCES, LIQUID, N.O.S.  | 6.1      | T1                  | II            | 6.1       | 210                | LQ17                            | E4                 | PP, EP, TOX, A     | VE02        |   | 2                           |  |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|---------------|---|-----------------------------|--|
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)    | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13)   |
| 3172             | TOXINS, EXTRACTED FROM LIVING SOURCES, LIQUID, N.O.S.  | 6.1      | T1                  | III           | 6.1       | 210<br>274<br>802  | LQ7                             | E1                 | PP, EP, TOX, A     | VE02          |   | 0                           |  |
| 3174             | TITANIUM DISULPHIDE  | 4.2      | S4                  | III           | 4.2       |                    | LQ0                             | E1                 | PP                 |               |   | 0                           |  |
| 3175             | SOLIDS or mixtures of solids (such as preparations and wastes) CONTAINING FLAMMABLE LIQUID, N.O.S. having a flash-point up to 60°C                         | 4.1      | F1                  | II            | 4.1       | 216<br>274<br>800  | LQ8                             | E2                 | PP, EX, A          | VE01,<br>VE03 | IN01,<br>IN02   | 1                           | VE03, IN01 and IN02 apply only when this substance is carried in bulk or without packaging |
| 3175             | SOLIDS CONTAINING FLAMMABLE LIQUID, MOLTEN, having a flash-point up to 60°C (DIALKYL-(C <sub>12</sub> -C <sub>18</sub> )-DIMETHYL-AMMONIUM and 2-PROPANOL) | 4.1      | F1                  | II            | 4.1       | 216<br>274<br>800  | LQ8                             | E2                 | PP, EX, A          | VE01,<br>VE03 | IN01,<br>IN02   | 1                           | VE03, IN01 and IN02 apply only when this substance is carried in bulk or without packaging |
| 3176             | FLAMMABLE SOLID, ORGANIC, MOLTEN, N.O.S.   | 4.1      | F2                  | II            | 4.1       | 274                | LQ0                             | E0                 | PP                 |               |   | 0                           |  |
| 3176             | FLAMMABLE SOLID, ORGANIC, MOLTEN, N.O.S.   | 4.1      | F2                  | III           | 4.1       | 274                | LQ0                             | E0                 | PP                 |               |   | 0                           |  |
| 3178             | FLAMMABLE SOLID, INORGANIC, N.O.S.   | 4.1      | F3                  | II            | 4.1       | 274                | LQ8                             | E2                 | PP                 |               |   | 1                           |  |
| 3178             | FLAMMABLE SOLID, INORGANIC, N.O.S.   | 4.1      | F3                  | III           | 4.1       | 274                | LQ9                             | E1                 | PP                 |               |   | 0                           |  |
| 3179             | FLAMMABLE SOLID, TOXIC, INORGANIC, N.O.S.  | 4.1      | FT2                 | II            | 4.1+6.1   | 274                | LQ0                             | E2                 | PP                 |               |   | 2                           |  |
| 3179             | FLAMMABLE SOLID, TOXIC, INORGANIC, N.O.S.  | 4.1      | FT2                 | III           | 4.1+6.1   | 274                | LQ0                             | E1                 | PP                 |               |   | 0                           |  |
| 3180             | FLAMMABLE SOLID, CORROSIVE, INORGANIC, N.O.S.  | 4.1      | FC2                 | II            | 4.1+8     | 274                | LQ0                             | E2                 | PP                 |               |   | 1                           |  |
| 3180             | FLAMMABLE SOLID, CORROSIVE, INORGANIC, N.O.S.  | 4.1      | FC2                 | III           | 4.1+8     | 274                | LQ0                             | E1                 | PP                 |               |   | 0                           |  |
| 3181             | METAL SALTS OF ORGANIC COMPOUNDS, FLAMMABLE, N.O.S.  | 4.1      | F3                  | II            | 4.1       | 274                | LQ8                             | E2                 | PP                 |               |   | 1                           |  |
| 3181             | METAL SALTS OF ORGANIC COMPOUNDS, FLAMMABLE, N.O.S.  | 4.1      | F3                  | III           | 4.1       | 274                | LQ9                             | E1                 | PP                 |               |   | 0                           |  |
| 3182             | METAL HYDRIDES, FLAMMABLE, N.O.S.  | 4.1      | F3                  | II            | 4.1       | 274                | LQ8                             | E2                 | PP                 |               |   | 1                           |  |
| 3182             | METAL HYDRIDES, FLAMMABLE, N.O.S.  | 4.1      | F3                  | III           | 4.1       | 554                | LQ9                             | E1                 | PP                 |               |   | 0                           |  |
| 3183             | SELF-HEATING LIQUID, ORGANIC, N.O.S.   | 4.2      | S1                  | II            | 4.2       | 274                | LQ0                             | E2                 | PP                 |               |   | 0                           |  |
| 3183             | SELF-HEATING LIQUID, ORGANIC, N.O.S.   | 4.2      | S1                  | III           | 4.2       | 274                | LQ0                             | E1                 | PP                 |               |   | 0                           |  |
| 3184             | SELF-HEATING LIQUID, TOXIC, ORGANIC, N.O.S.  | 4.2      | ST1                 | II            | 4.2+6.1   | 274                | LQ0                             | E2                 | PP, EP, TOX, A     | VE02          |   | 2                           |  |
| 3184             | SELF-HEATING LIQUID, TOXIC, ORGANIC, N.O.S.  | 4.2      | ST1                 | III           | 4.2+6.1   | 274                | LQ0                             | E1                 | PP, EP, TOX, A     | VE02          |   | 0                           |  |
| 3185             | SELF-HEATING LIQUID, CORROSIVE, ORGANIC, N.O.S.  | 4.2      | SC1                 | II            | 4.2+8     | 274                | LQ0                             | E2                 | PP, EP             |               |   | 0                           |  |
| 3185             | SELF-HEATING LIQUID, CORROSIVE, ORGANIC, N.O.S.  | 4.2      | SC1                 | III           | 4.2+8     | 274                | LQ0                             | E1                 | PP, EP             |               |   | 0                           |  |

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|------------------|---|-------|---------------------|---------------|---------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|---------|
| (1)              | 3.1.2   | 2.2   | 2.2                 | 2.1.1.3       | 5.2.2   | 3.3                | 3.4.6                           | 3.2.1              | 8.1.5              | 7.1.6       | 7.1.6   | 7.1.5                       | 3.2.1   |
|                  | (2)   | (3a)  | (3b)                | (4)           | (5)     | (6)                | (7a)                            | (8)                | (9)                | (10)        | (11)  | (12)                        | (13)    |
| 3186             | SELF-HEATING LIQUID, INORGANIC, N.O.S.                    | 4.2   | S3                  | II            | 4.2     | 274                | LQ0                             |                    | PP                 |             |   | 0                           |         |
| 3186             | SELF-HEATING LIQUID, INORGANIC, N.O.S.                    | 4.2   | S3                  | III           | 4.2     | 274                | LQ0                             |                    | PP                 |             |   | 0                           |         |
| 3187             | SELF-HEATING LIQUID, TOXIC, INORGANIC, N.O.S.             | 4.2   | ST3                 | II            | 4.2+6.1 | 274                | LQ0                             |                    | PP, EP, TOX, A     | VE02        |   | 2                           |         |
| 3187             | SELF-HEATING LIQUID, TOXIC, INORGANIC, N.O.S.             | 4.2   | ST3                 | III           | 4.2+6.1 | 274                | LQ0                             |                    | PP, EP, TOX, A     | VE02        |   | 0                           |         |
| 3188             | SELF-HEATING LIQUID, CORROSIVE, INORGANIC, N.O.S.         | 4.2   | SC3                 | II            | 4.2+8   | 274                | LQ0                             |                    | PP, EP             |             |   | 0                           |         |
| 3188             | SELF-HEATING LIQUID, CORROSIVE, INORGANIC, N.O.S.         | 4.2   | SC3                 | III           | 4.2+8   | 274                | LQ0                             |                    | PP, EP             |             |   | 0                           |         |
| 3189             | METAL POWDER, SELF-HEATING, N.O.S.                        | 4.2   | S4                  | II            | 4.2     | 274                | LQ0                             |                    | PP                 |             |   | 0                           |         |
| 3189             | METAL POWDER, SELF-HEATING, N.O.S.                        | 4.2   | S4                  | III           | 4.2     | 274                | LQ0                             |                    | PP                 |             |   | 0                           |         |
| 3190             | SELF-HEATING SOLID, INORGANIC, N.O.S.                     | 4.2   | S4                  | II            | 4.2     | 274                | LQ0                             |                    | PP                 |             |   | 0                           |         |
| 3190             | SELF-HEATING SOLID, INORGANIC, N.O.S.                     | 4.2   | S4                  | III           | 4.2     | 274                | LQ0                             | B                  | PP                 |             |   | 0                           |         |
| 3191             | SELF-HEATING SOLID, TOXIC, INORGANIC, N.O.S.              | 4.2   | ST4                 | II            | 4.2+6.1 | 274                | LQ0                             |                    | PP                 |             |   | 2                           |         |
| 3191             | SELF-HEATING SOLID, TOXIC, INORGANIC, N.O.S.              | 4.2   | ST4                 | III           | 4.2+6.1 | 274                | LQ0                             |                    | PP                 |             |   | 0                           |         |
| 3192             | SELF-HEATING SOLID, CORROSIVE, INORGANIC, N.O.S.          | 4.2   | SC4                 | II            | 4.2+8   | 274                | LQ0                             |                    | PP                 |             |   | 0                           |         |
| 3192             | SELF-HEATING SOLID, CORROSIVE, INORGANIC, N.O.S.          | 4.2   | SC4                 | III           | 4.2+8   | 274                | LQ0                             |                    | PP                 |             |   | 0                           |         |
| 3194             | PYROPHORIC LIQUID, INORGANIC, N.O.S.                      | 4.2   | S3                  | I             | 4.2     | 274                | LQ0                             |                    | PP                 |             |   | 0                           |         |
| 3200             | PYROPHORIC SOLID, INORGANIC, N.O.S.                       | 4.2   | S4                  | I             | 4.2     | 274                | LQ0                             |                    | PP                 |             |   | 0                           |         |
| 3205             | ALKALINE EARTH METAL ALCOHOLATES, N.O.S.                  | 4.2   | S4                  | II            | 4.2     | 183                | LQ0                             |                    | PP                 |             |   | 0                           |         |
| 3205             | ALKALINE EARTH METAL ALCOHOLATES, N.O.S.                  | 4.2   | S4                  | III           | 4.2     | 274                | LQ0                             |                    | PP                 |             |   | 0                           |         |
| 3206             | ALKALI METAL ALCOHOLATES, SELF-HEATING, CORROSIVE, N.O.S. | 4.2   | SC4                 | II            | 4.2+8   | 182                | LQ0                             |                    | PP                 |             |   | 0                           |         |
| 3206             | ALKALI METAL ALCOHOLATES, SELF-HEATING, CORROSIVE, N.O.S. | 4.2   | SC4                 | III           | 4.2+8   | 183                | LQ0                             |                    | PP                 |             |   | 0                           |         |
| 3208             | METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S.                | 4.3   | W2                  | I             | 4.3     | 274                | LQ0                             |                    | PP, EX, A          | VE01        | HA08  | 0                           |         |
| 3208             | METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S.                | 4.3   | W2                  | II            | 4.3     | 274                | LQ11                            |                    | PP, EX, A          | VE01        | HA08  | 0                           |         |
| 3208             | METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S.                | 4.3   | W2                  | III           | 4.3     | 274                | LQ12                            |                    | PP, EX, A          | VE01        | HA08  | 0                           |         |
| 3209             | METALLIC SUBSTANCE, WATER-REACTIVE, SELF-HEATING, N.O.S.  | 4.3   | WS                  | I             | 4.3+4.2 | 274                | LQ0                             |                    | PP, EX, A          | VE01        | HA08  | 0                           |         |
| 3209             | METALLIC SUBSTANCE, WATER-REACTIVE, SELF-HEATING, N.O.S.  | 4.3   | WS                  | II            | 4.3+4.2 | 274                | LQ11                            |                    | PP, EX, A          | VE01        | HA08  | 0                           |         |
| 3209             | METALLIC SUBSTANCE, WATER-REACTIVE, SELF-HEATING, N.O.S.  | 4.3   | WS                  | III           | 4.3+4.2 | 274                | LQ12                            |                    | PP, EX, A          | VE01        | HA08  | 0                           |         |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 3210             | CHLORATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.     | 5.1      | O1                  | II            | 5.1       | 274                | LQ10                            | E2                 | PP                 |             |   | 0                           |            |
| 3210             | CHLORATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.     | 5.1      | O1                  | III           | 5.1       | 274                | LQ13                            | E1                 | PP                 |             |   | 0                           |            |
| 3211             | PERCHLORATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.  | 5.1      | O1                  | II            | 5.1       | 274                | LQ10                            | E2                 | PP                 |             |   | 0                           |            |
| 3211             | PERCHLORATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.  | 5.1      | O1                  | III           | 5.1       | 274                | LQ13                            | E1                 | PP                 |             |   | 0                           |            |
| 3212             | HYPOCHLORITES, INORGANIC, N.O.S.                   | 5.1      | O2                  | II            | 5.1       | 274                | LQ11                            | E2                 | PP                 |             |   | 0                           |            |
| 3213             | BROMATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.      | 5.1      | O1                  | II            | 5.1       | 559                | LQ10                            | E2                 | PP                 |             |   | 0                           |            |
| 3213             | BROMATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.      | 5.1      | O1                  | III           | 5.1       | 604                | LQ13                            | E1                 | PP                 |             |   | 0                           |            |
| 3214             | PERMANGANATES, INORGANIC, AQUEOUS SOLUTION, N.O.S. | 5.1      | O1                  | II            | 5.1       | 274                | LQ10                            | E2                 | PP                 |             |   | 0                           |            |
| 3215             | PERSULPHATES, INORGANIC, N.O.S.                    | 5.1      | O2                  | III           | 5.1       | 274                | LQ12                            | E1                 | PP                 |             |   | 0                           |            |
| 3216             | PERSULPHATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.  | 5.1      | O1                  | III           | 5.1       | 274                | LQ13                            | E1                 | PP                 |             |   | 0                           |            |
| 3218             | NITRATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.      | 5.1      | O1                  | II            | 5.1       | 270                | LQ10                            | E2                 | PP                 |             |   | 0                           |            |
| 3218             | NITRATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.      | 5.1      | O1                  | III           | 5.1       | 274                | LQ13                            | E1                 | PP                 |             |   | 0                           |            |
| 3219             | NITRITES, INORGANIC, AQUEOUS SOLUTION, N.O.S.      | 5.1      | O1                  | II            | 5.1       | 103                | LQ10                            | E2                 | PP                 |             |   | 0                           |            |
| 3219             | NITRITES, INORGANIC, AQUEOUS SOLUTION, N.O.S.      | 5.1      | O1                  | III           | 5.1       | 103                | LQ13                            | E1                 | PP                 |             |   | 0                           |            |
| 3220             | PENTAFLUOROETHANE (REFRIGERANT GAS R 125)          | 2        | 2A                  |               | 2.2       |                    | LQ1                             | E1                 | PP                 |             |   | 0                           |            |
| 3221             | SELF-REACTIVE LIQUID TYPE B                        | 4.1      | SR1                 |               | 4.1+1     | 181                | LQ14                            | E0                 | PP                 |             | HA01, HA10  | 3                           |            |
| 3222             | SELF-REACTIVE SOLID TYPE B                         | 4.1      | SR1                 |               | 4.1+1     | 194                | LQ15                            | E0                 | PP                 |             | HA01, HA10  | 3                           |            |
| 3223             | SELF-REACTIVE LIQUID TYPE C                        | 4.1      | SR1                 |               | 4.1       | 194                | LQ14                            | E0                 | PP                 |             |   | 0                           |            |
| 3224             | SELF-REACTIVE SOLID TYPE C                         | 4.1      | SR1                 |               | 4.1       | 274                | LQ15                            | E0                 | PP                 |             |   | 0                           |            |
| 3225             | SELF-REACTIVE LIQUID TYPE D                        | 4.1      | SR1                 |               | 4.1       | 194                | LQ16                            | E0                 | PP                 |             |   | 0                           |            |
| 3226             | SELF-REACTIVE SOLID TYPE D                         | 4.1      | SR1                 |               | 4.1       | 274                | LQ11                            | E0                 | PP                 |             |   | 0                           |            |

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|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 3227             | SELF-REACTIVE LIQUID TYPE E   | 4.1      | SR1                 |               | 4.1       | 194<br>274         | LQ16<br>E0                      |                    | PP                 |             |   | 0                           |            |
| 3228             | SELF-REACTIVE SOLID TYPE E  | 4.1      | SR1                 |               | 4.1       | 194<br>274         | LQ11<br>E0                      |                    | PP                 |             |   | 0                           |            |
| 3229             | SELF-REACTIVE LIQUID TYPE F   | 4.1      | SR1                 |               | 4.1       | 194<br>274         | LQ16<br>E0                      |                    | PP                 |             |   | 0                           |            |
| 3230             | SELF-REACTIVE SOLID TYPE F  | 4.1      | SR1                 |               | 4.1       | 194<br>274         | LQ11<br>E0                      |                    | PP                 |             |   | 0                           |            |
| 3231             | SELF-REACTIVE LIQUID TYPE B, TEMPERATURE CONTROLLED   | 4.1      | SR2                 |               | 4.1+1     | 181<br>194<br>274  | LQ0<br>E0                       |                    | PP                 |             | HA01,<br>HA10   | 3                           |            |
| 3232             | SELF-REACTIVE SOLID TYPE B, TEMPERATURE CONTROLLED  | 4.1      | SR2                 |               | 4.1+1     | 181<br>194<br>274  | LQ0<br>E0                       |                    | PP                 |             | HA01,<br>HA10   | 3                           |            |
| 3233             | SELF-REACTIVE LIQUID TYPE C, TEMPERATURE CONTROLLED   | 4.1      | SR2                 |               | 4.1       | 194<br>274         | LQ0<br>E0                       |                    | PP                 |             |   | 0                           |            |
| 3234             | SELF-REACTIVE SOLID TYPE C, TEMPERATURE CONTROLLED  | 4.1      | SR2                 |               | 4.1       | 194<br>274         | LQ0<br>E0                       |                    | PP                 |             |   | 0                           |            |
| 3235             | SELF-REACTIVE LIQUID TYPE D, TEMPERATURE CONTROLLED   | 4.1      | SR2                 |               | 4.1       | 194<br>274         | LQ0<br>E0                       |                    | PP                 |             |   | 0                           |            |
| 3236             | SELF-REACTIVE SOLID TYPE D, TEMPERATURE CONTROLLED  | 4.1      | SR2                 |               | 4.1       | 194<br>274         | LQ0<br>E0                       |                    | PP                 |             |   | 0                           |            |
| 3237             | SELF-REACTIVE LIQUID TYPE E, TEMPERATURE CONTROLLED   | 4.1      | SR2                 |               | 4.1       | 194<br>274         | LQ0<br>E0                       |                    | PP                 |             |   | 0                           |            |
| 3238             | SELF-REACTIVE SOLID TYPE E, TEMPERATURE CONTROLLED  | 4.1      | SR2                 |               | 4.1       | 194<br>274         | LQ0<br>E0                       |                    | PP                 |             |   | 0                           |            |
| 3239             | SELF-REACTIVE LIQUID TYPE F, TEMPERATURE CONTROLLED   | 4.1      | SR2                 |               | 4.1       | 194<br>274         | LQ0<br>E0                       |                    | PP                 |             |   | 0                           |            |
| 3240             | SELF-REACTIVE SOLID TYPE F, TEMPERATURE CONTROLLED  | 4.1      | SR2                 |               | 4.1       | 194<br>274         | LQ0<br>E0                       |                    | PP                 |             |   | 0                           |            |
| 3241             | 2-BROMO-2-NITROPROPANE-1,3-DIOL   | 4.1      | SR1                 | III           | 4.1       | 638                | LQ0                             |                    | PP                 |             |   | 0                           |            |
| 3242             | AZODICARBONAMIDE  | 4.1      | SR1                 | II            | 4.1       | 215<br>638         | LQ0<br>E2                       |                    | PP                 |             |   | 0                           |            |
| 3243             | SOLIDS CONTAINING TOXIC LIQUID, N.O.S.  | 6.1      | T9                  | II            | 6.1       | 217<br>274<br>802  | LQ18<br>E4                      |                    | PP, EP, TOX,<br>A  | VE02        |   | 2                           |            |
| 3244             | SOLIDS CONTAINING CORROSIVE LIQUID, N.O.S.  | 8        | C10                 | II            | 8         | 218<br>274         | LQ23<br>E2                      |                    | PP, EP             |             |   | 0                           |            |
| 3245             | GENETICALLY MODIFIED MICROORGANISMS or GENETICALLY MODIFIED ORGANISMS                                   | 9        | M8                  |               | 9         | 219<br>637<br>802  | LQ0<br>E0                       |                    | PP                 |             |   | 0                           |            |
| 3245             | GENETICALLY MODIFIED MICRO-ORGANISMS or GENETICALLY MODIFIED ORGANISMS, in refrigerated liquid nitrogen | 9        | M8                  |               | 9+2.2     | 219<br>637<br>802  | LQ0<br>E0                       |                    | PP                 |             |   | 0                           |            |
| 3246             | METHANESULPHONYL CHLORIDE   | 6.1      | TC1                 | I             | 6.1+8     | 802                | LQ0<br>E5                       |                    | PP, EP, TOX,<br>A  | VE02        |   | 2                           |            |



| UN No. or ID No. | Name and description  | Class    | Classification Code | Packing group | Labels    | Special provisions       | Limited and excepted quantities |              | Carriage permitted         | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage |            | Number of blue cones/lights | Remarks |
|------------------|---|----------|---------------------|---------------|-----------|--------------------------|---------------------------------|--------------|----------------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |   |          |                     |               |           |                          | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                            |                    |             | 7.1.6 (10)  | 7.1.6 (11) |                             |         |
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)                  | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)                  | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 3247             | SODIUM PEROXOBORATE, ANHYDROUS  | 5.1      | O2                  | II            | 5.1       | 220                      | LQ11                            | E2           |                            | PP                 |             |   | 0          |                             |         |
| 3248             | MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S.  | 3        | FT1                 | II            | 3+6.1     | 221<br>274<br>601<br>802 | LQ0                             | E2           |                            | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 3248             | MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S.  | 3        | FT1                 | III           | 3+6.1     | 220                      | LQ7                             | E1           |                            | PP, EP, EX, TOX, A | VE01, VE02  |   | 0          |                             |         |
| 3249             | MEDICINE, SOLID, TOXIC, N.O.S.  | 6.1      | T2                  | II            | 6.1       | 221<br>274<br>601<br>802 | LQ18                            | E4           |                            | PP, EP             |             |   | 2          |                             |         |
| 3249             | MEDICINE, SOLID, TOXIC, N.O.S.  | 6.1      | T2                  | III           | 6.1       | 221<br>274<br>601<br>802 | LQ9                             | E1           |                            | PP, EP             |             |   | 0          |                             |         |
| 3250             | CHLOROACETIC ACID, MOLTEN   | 6.1      | TC1                 | II            | 6.1+8     | 802                      | LQ0                             | E0           |                            | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 3251             | ISOSORBIDE-5-MONONITRATE  | 4.1      | SR1                 | III           | 4.1       | 226<br>638               | LQ0                             | E1           |                            | PP                 |             |   | 0          |                             |         |
| 3252             | DIFLUOROMETHANE (REFRIGERANT GAS R 32)  | 2        | 2F                  |               | 2.1       |                          | LQ0                             | E0           |                            | PP, EX, A          | VE01        |   | 1          |                             |         |
| 3253             | DISODIUM TRIOXOSILICATE   | 8        | C6                  | III           | 8         |                          | LQ24                            | E1           |                            | PP, EP             |             |   | 0          |                             |         |
| 3254             | TRIBUTYLPHOSPHANE   | 4.2      | S1                  | I             | 4.2       |                          | LQ0                             | E0           |                            | PP                 |             |   | 0          |                             |         |
| 3255             | tert-BUTYLHYPOCHLORITE  | 4.2      | SC1                 |               |           |                          |                                 |              | <b>CARRIAGE PROHIBITED</b> |                    |             |   |            |                             |         |
| 3256             | ELEVATED TEMPERATURE LIQUID, FLAMMABLE, N.O.S. with flash-point above 60 °C, at or above its flash-point                        | 3        | F2                  | III           | 3         | 274<br>560               | LQ0                             | E0           | T                          | PP, EX, A          | VE01        |   | 0          |                             |         |
| 3257             | ELEVATED TEMPERATURE LIQUID, N.O.S., at or above 100 °C and below its flash-point (including molten metals, molten salts, etc.) | 9        | M9                  | III           | 9         | 274<br>580<br>643        | LQ0                             | E0           | T                          | PP                 |             |   | 0          |                             |         |
| 3258             | ELEVATED TEMPERATURE SOLID, N.O.S., at or above 240 °C  | 9        | M10                 | III           | 9         | 274<br>580<br>643        | LQ0                             | E0           |                            | PP                 |             |   | 0          |                             |         |
| 3259             | AMINES, SOLID, CORROSIVE, N.O.S. or POLYAMINES, SOLID, CORROSIVE, N.O.S.  | 8        | C8                  | I             | 8         | 274                      | LQ0                             | E0           |                            | PP, EP             |             |   | 0          |                             |         |
| 3259             | AMINES, SOLID, CORROSIVE, N.O.S. or POLYAMINES, SOLID, CORROSIVE, N.O.S.  | 8        | C8                  | II            | 8         | 274                      | LQ23                            | E2           |                            | PP, EP             |             |   | 0          |                             |         |
| 3259             | AMINES, SOLID, CORROSIVE, N.O.S. or POLYAMINES, SOLID, CORROSIVE, N.O.S.  | 8        | C8                  | III           | 8         | 274                      | LQ24                            | E1           | T                          | PP, EP             |             |   | 0          |                             |         |
| 3260             | CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.  | 8        | C2                  | I             | 8         | 274                      | LQ0                             | E0           |                            | PP, EP             |             |   | 0          |                             |         |

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|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
|                  |   |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             |   |                             |            |
| (1)              | 3.1.2 (2)                                   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 3260             | CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.  | 8        | C2                  | II            | 8         | 274                | LQ23                            | E2           |                    | PP, EP             |             |   | 0                           |            |
| 3260             | CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.  | 8        | C2                  | III           | 8         | 274                | LQ24                            | E1           |                    | PP, EP             |             |   | 0                           |            |
| 3261             | CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.    | 8        | C4                  | I             | 8         | 274                | LQ0                             | E0           |                    | PP, EP             |             |   | 0                           |            |
| 3261             | CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.    | 8        | C4                  | II            | 8         | 274                | LQ23                            | E2           |                    | PP, EP             |             |   | 0                           |            |
| 3261             | CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.    | 8        | C4                  | III           | 8         | 274                | LQ24                            | E1           |                    | PP, EP             |             |   | 0                           |            |
| 3262             | CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.   | 8        | C6                  | I             | 8         | 274                | LQ0                             | E0           |                    | PP, EP             |             |   | 0                           |            |
| 3262             | CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.   | 8        | C6                  | II            | 8         | 274                | LQ23                            | E2           |                    | PP, EP             |             |   | 0                           |            |
| 3262             | CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.   | 8        | C6                  | III           | 8         | 274                | LQ24                            | E1           |                    | PP, EP             |             |   | 0                           |            |
| 3263             | CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.     | 8        | C8                  | I             | 8         | 274                | LQ0                             | E0           |                    | PP, EP             |             |   | 0                           |            |
| 3263             | CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.     | 8        | C8                  | II            | 8         | 274                | LQ23                            | E2           |                    | PP, EP             |             |   | 0                           |            |
| 3263             | CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.     | 8        | C8                  | III           | 8         | 274                | LQ24                            | E1           |                    | PP, EP             |             |   | 0                           |            |
| 3264             | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. | 8        | C1                  | I             | 8         | 274                | LQ0                             | E0           | T                  | PP, EP             |             |   | 0                           |            |
| 3264             | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. | 8        | C1                  | II            | 8         | 274                | LQ22                            | E2           | T                  | PP, EP             |             |   | 0                           |            |
| 3264             | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. | 8        | C1                  | III           | 8         | 274                | LQ7                             | E1           | T                  | PP, EP             |             |   | 0                           |            |
| 3265             | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.   | 8        | C3                  | I             | 8         | 274                | LQ0                             | E0           | T                  | PP, EP             |             |   | 0                           |            |
| 3265             | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.   | 8        | C3                  | II            | 8         | 274                | LQ22                            | E2           | T                  | PP, EP             |             |   | 0                           |            |
| 3265             | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.   | 8        | C3                  | III           | 8         | 274                | LQ7                             | E1           | T                  | PP, EP             |             |   | 0                           |            |
| 3266             | CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.  | 8        | C5                  | I             | 8         | 274                | LQ0                             | E0           | T                  | PP, EP             |             |   | 0                           |            |
| 3266             | CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.  | 8        | C5                  | II            | 8         | 274                | LQ22                            | E2           | T                  | PP, EP             |             |   | 0                           |            |
| 3266             | CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.  | 8        | C5                  | III           | 8         | 274                | LQ7                             | E1           | T                  | PP, EP             |             |   | 0                           |            |
| 3267             | CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.    | 8        | C7                  | I             | 8         | 274                | LQ0                             | E0           | T                  | PP, EP             |             |   | 0                           |            |
| 3267             | CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.    | 8        | C7                  | II            | 8         | 274                | LQ22                            | E2           | T                  | PP, EP             |             |   | 0                           |            |
| 3267             | CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.    | 8        | C7                  | III           | 8         | 274                | LQ7                             | E1           | T                  | PP, EP             |             |   | 0                           |            |

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|------------------|---|----------|---------------------|---------------|-----------|-------------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |   |          |                     |               |           |                         | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (10)  | 7.1.6 (11) |                             |         |
| 3268             | 3.1.2 (2)<br>AIR BAG INFLATORS or AIR BAG MODULES or SEAT-BELT PRETENSIONERS    | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)                 | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 3269             | POLYESTER RESIN KIT   | 3        | F1                  | II            | 3         | 280<br>289              | LQ0                             | E0           |                    | PP                 |             |   | 0          |                             |         |
| 3269             | POLYESTER RESIN KIT   | 3        | F1                  | III           | 3         | 256<br>340              | LQ6                             | E0           |                    | PP, EX. A          | VE01        |   | 1          |                             |         |
| 3270             | NITROCELLULOSE MEMBRANE FILTERS, with not more than 12.6% nitrogen, by dry mass | 3        | F1                  | II            | 4.1       | 237<br>286              | LQ7                             | E0           |                    | PP, EX. A          | VE01        |   | 0          |                             |         |
| 3271             | ETHERS, N.O.S.  | 3        | F1                  | II            | 3         | 274                     | LQ8                             | E2           |                    | PP                 |             |   | 1          |                             |         |
| 3271             | ETHERS, N.O.S.  | 3        | F1                  | III           | 3         | 274                     | LQ4                             | E2           | T                  | PP, EX. A          | VE01        |   | 1          |                             |         |
| 3272             | ESTERS, N.O.S.  | 3        | F1                  | II            | 3         | 274                     | LQ7                             | E1           | T                  | PP, EX. A          | VE01        |   | 0          |                             |         |
| 3272             | ESTERS, N.O.S.  | 3        | F1                  | III           | 3         | 601                     | LQ7                             | E1           | T                  | PP, EX. A          | VE01        |   | 0          |                             |         |
| 3273             | NITRILES, FLAMMABLE, TOXIC, N.O.S.  | 3        | FT1                 | I             | 3+6.1     | 274<br>802              | LQ0                             | E0           |                    | PP, EP, EX, TOX. A | VE01, VE02  |   | 2          |                             |         |
| 3273             | NITRILES, FLAMMABLE, TOXIC, N.O.S.  | 3        | FT1                 | II            | 3+6.1     | 274<br>802              | LQ0                             | E2           |                    | PP, EP, EX, TOX. A | VE01, VE02  |   | 2          |                             |         |
| 3274             | ALCOHOLATES SOLUTION, N.O.S., in alcohol  | 3        | FC                  | II            | 3+8       | 274                     | LQ4                             | E2           |                    | PP, EP, EX, A      | VE01        |   | 1          |                             |         |
| 3275             | NITRILES, TOXIC, FLAMMABLE, N.O.S.  | 6.1      | TF1                 | I             | 6.1+3     | 274<br>315<br>802       | LQ0                             | E5           |                    | PP, EP, EX, TOX. A | VE01, VE02  |   | 2          |                             |         |
| 3275             | NITRILES, TOXIC, FLAMMABLE, N.O.S.  | 6.1      | TF1                 | II            | 6.1+3     | 274<br>802              | LQ17                            | E4           |                    | PP, EP, EX, TOX. A | VE01, VE02  |   | 2          |                             |         |
| 3276             | NITRILES, TOXIC, LIQUID, N.O.S.   | 6.1      | T1                  | I             | 6.1       | 274<br>315<br>802       | LQ0                             | E5           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 3276             | NITRILES, TOXIC, LIQUID, N.O.S.   | 6.1      | T1                  | II            | 6.1       | 274<br>802              | LQ17                            | E4           | T                  | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 3276             | NITRILES, TOXIC, LIQUID, N.O.S.   | 6.1      | T1                  | III           | 6.1       | 274<br>802              | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0          |                             |         |
| 3277             | CHLOROFORMATES, TOXIC, CORROSIVE, N.O.S.  | 6.1      | TC1                 | II            | 6.1+8     | 274<br>561<br>802       | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 3278             | ORGANOPHOSPHORUS COMPOUND, TOXIC, LIQUID, N.O.S.                                | 6.1      | T1                  | I             | 6.1       | 43<br>274<br>315<br>802 | LQ0                             | E5           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 3278             | ORGANOPHOSPHORUS COMPOUND, TOXIC, LIQUID, N.O.S.                                | 6.1      | T1                  | II            | 6.1       | 43<br>274<br>802        | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 3278             | ORGANOPHOSPHORUS COMPOUND, TOXIC, LIQUID, N.O.S.                                | 6.1      | T1                  | III           | 6.1       | 43<br>274<br>802        | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0          |                             |         |
| 3279             | ORGANOPHOSPHORUS COMPOUND, TOXIC, FLAMMABLE, N.O.S.                             | 6.1      | TF1                 | I             | 6.1+3     | 43<br>274<br>315<br>802 | LQ0                             | E5           |                    | PP, EP, EX, TOX. A | VE01, VE02  |   | 2          |                             |         |
| 3279             | ORGANOPHOSPHORUS COMPOUND, TOXIC, FLAMMABLE, N.O.S.                             | 6.1      | TF1                 | II            | 6.1+3     | 43<br>274<br>802        | LQ17                            | E4           |                    | PP, EP, EX, TOX. A | VE01, VE02  |   | 2          |                             |         |
| 3280             | ORGANOARSENIC COMPOUND, LIQUID, N.O.S.  | 6.1      | T3                  | I             | 6.1       | 274<br>315<br>802       | LQ0                             | E5           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 3280             | ORGANOARSENIC COMPOUND, LIQUID, N.O.S.  | 6.1      | T3                  | II            | 6.1       | 274<br>802              | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |

| UN No. or ID No. | Name and description                           | Class    | Classification Code | Packing group | Labels    | Special provisions | Limited and excepted quantities | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage | Number of blue cones/lights | Remarks    |
|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)                                      | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a) 3.5.1.2 (7b)         | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 3280             | ORGANOARSENIC COMPOUND, LIQUID, N.O.S.         | 6.1      | T3                  | III           | 6.1       | 274 802            | LQ7 E1                          |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 3281             | METAL CARBONYLS, LIQUID, N.O.S.                | 6.1      | T3                  | I             | 6.1       | 274 315 562 802    | LQ0 E5                          |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3281             | METAL CARBONYLS, LIQUID, N.O.S.                | 6.1      | T3                  | II            | 6.1       | 274 562 802        | LQ17 E4                         |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3281             | METAL CARBONYLS, LIQUID, N.O.S.                | 6.1      | T3                  | III           | 6.1       | 274 562 802        | LQ7 E1                          |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 3282             | ORGANOMETALLIC COMPOUND, TOXIC, LIQUID, N.O.S. | 6.1      | T3                  | I             | 6.1       | 274 562 802        | LQ0 E5                          |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3282             | ORGANOMETALLIC COMPOUND, TOXIC, LIQUID, N.O.S. | 6.1      | T3                  | II            | 6.1       | 274 562 802        | LQ17 E4                         |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3282             | ORGANOMETALLIC COMPOUND, TOXIC, LIQUID, N.O.S. | 6.1      | T3                  | III           | 6.1       | 274 562 802        | LQ7 E1                          |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 3283             | SELENIUM COMPOUND, SOLID, N.O.S.               | 6.1      | T5                  | I             | 6.1       | 274 563 802        | LQ0 E5                          |                    | PP, EP             |             |   | 2                           |            |
| 3283             | SELENIUM COMPOUND, SOLID, N.O.S.               | 6.1      | T5                  | II            | 6.1       | 274 563 802        | LQ18 E4                         |                    | PP, EP             |             |   | 2                           |            |
| 3283             | SELENIUM COMPOUND, SOLID, N.O.S.               | 6.1      | T5                  | III           | 6.1       | 274 563 802        | LQ9 E1                          |                    | PP, EP             |             |   | 0                           |            |
| 3284             | TELLURIUM COMPOUND, N.O.S.                     | 6.1      | T5                  | I             | 6.1       | 274 802            | LQ0 E5                          |                    | PP, EP             |             |   | 2                           |            |
| 3284             | TELLURIUM COMPOUND, N.O.S.                     | 6.1      | T5                  | II            | 6.1       | 274 802            | LQ18 E4                         |                    | PP, EP             |             |   | 2                           |            |
| 3284             | TELLURIUM COMPOUND, N.O.S.                     | 6.1      | T5                  | III           | 6.1       | 274 802            | LQ9 E1                          |                    | PP, EP             |             |   | 0                           |            |
| 3285             | VANADIUM COMPOUND, N.O.S.                      | 6.1      | T5                  | I             | 6.1       | 274 564 802        | LQ0 E5                          |                    | PP, EP             |             |   | 2                           |            |
| 3285             | VANADIUM COMPOUND, N.O.S.                      | 6.1      | T5                  | II            | 6.1       | 274 564 802        | LQ18 E4                         |                    | PP, EP             |             |   | 2                           |            |
| 3285             | VANADIUM COMPOUND, N.O.S.                      | 6.1      | T5                  | III           | 6.1       | 274 564 802        | LQ9 E1                          |                    | PP, EP             |             |   | 0                           |            |
| 3286             | FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.     | 3        | FTC                 | I             | 3+6.1+8   | 274 802            | LQ0 E0                          | T                  | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 3286             | FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.     | 3        | FTC                 | II            | 3+6.1+8   | 274 802            | LQ0 E2                          | T                  | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 3287             | TOXIC LIQUID, INORGANIC, N.O.S.                | 6.1      | T4                  | I             | 6.1       | 274 315 802        | LQ0 E5                          | T                  | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3287             | TOXIC LIQUID, INORGANIC, N.O.S.                | 6.1      | T4                  | II            | 6.1       | 274 802            | LQ17 E4                         | T                  | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3287             | TOXIC LIQUID, INORGANIC, N.O.S.                | 6.1      | T4                  | III           | 6.1       | 274 802            | LQ7 E1                          | T                  | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 3288             | TOXIC SOLID, INORGANIC, N.O.S.                 | 6.1      | T5                  | I             | 6.1       | 274 802            | LQ0 E5                          |                    | PP, EP             |             |   | 2                           |            |
| 3288             | TOXIC SOLID, INORGANIC, N.O.S.                 | 6.1      | T5                  | II            | 6.1       | 274 802            | LQ18 E4                         |                    | PP, EP             |             |   | 2                           |            |
| 3288             | TOXIC SOLID, INORGANIC, N.O.S.                 | 6.1      | T5                  | III           | 6.1       | 274 802            | LQ9 E1                          |                    | PP, EP             |             |   | 0                           |            |
| 3289             | TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S.     | 6.1      | TC3                 | I             | 6.1+8     | 274 315 802        | LQ0 E5                          | T                  | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3289             | TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S.     | 6.1      | TC3                 | II            | 6.1+8     | 274 802            | LQ17 E4                         | T                  | PP, EP, TOX, A     | VE02        |   | 2                           |            |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
|                  |  |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             |   |                             |            |
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 3290             | TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S.  | 6.1      | TC4                 | I             | 6.1+8     | 274 802            | LQ0                             | E5           |                    | PP, EP             |             |   | 2                           |            |
| 3290             | TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S.  | 6.1      | TC4                 | II            | 6.1+8     | 274 802            | LQ18                            | E4           |                    | PP, EP             |             |   | 2                           |            |
| 3291             | CLINICAL WASTE, UNSPECIFIED, N.O.S. or (BIO) MEDICAL WASTE, N.O.S. or REGULATED MEDICAL WASTE, N.O.S.                                  | 6.2      | I3                  | II            | 6.2       | 565 802            | LQ0                             | E0           |                    | PP                 |             |   | 0                           |            |
| 3291             | CLINICAL WASTE, UNSPECIFIED, N.O.S. or (BIO) MEDICAL WASTE, N.O.S. or REGULATED MEDICAL WASTE, N.O.S., in refrigerated liquid nitrogen | 6.2      | I3                  | II            | 6.2+2.2   | 565 802            | LQ0                             | E0           |                    | PP                 |             |   | 0                           |            |
| 3292             | BATTERIES, CONTAINING SODIUM, or CELLS, CONTAINING SODIUM  | 4.3      | W3                  | II            | 4.3       | 239 295            | LQ0                             | E0           |                    | PP, EX, A          | VE01        | HA08  | 0                           |            |
| 3293             | HYDRAZINE, AQUEOUS SOLUTION with not more than 37% hydrazine, by mass  | 6.1      | T4                  | III           | 6.1       | 566 802            | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 3294             | HYDROGEN CYANIDE, SOLUTION IN ALCOHOL with not more than 45% hydrogen cyanide  | 6.1      | TF1                 | I             | 6.1+3     | 610 802            | LQ0                             | E5           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 3295             | HYDROCARBONS, LIQUID, N.O.S.   | 3        | F1                  | I             | 3         | 649                | LQ3                             | E3           | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 3295             | HYDROCARBONS, LIQUID, N.O.S. (vapour pressure at 50 °C more than 110 kPa)  | 3        | F1                  | II            | 3         | 640C 649           | LQ4                             | E2           | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 3295             | HYDROCARBONS, LIQUID, N.O.S. (vapour pressure at 50 °C not more than 110 kPa)  | 3        | F1                  | II            | 3         | 640D 649           | LQ4                             | E2           | T                  | PP, EX, A          | VE01        |   | 1                           |            |
| 3295             | HYDROCARBONS, LIQUID, N.O.S.   | 3        | F1                  | III           | 3         |                    | LQ7                             | E1           | T                  | PP, EX, A          | VE01        |   | 0                           |            |
| 3296             | HEPTAFLUOROPROPANE (REFRIGERANT GAS R 227)   | 2        | 2A                  |               | 2.2       |                    | LQ1                             | E1           |                    | PP                 |             |   | 0                           |            |
| 3297             | ETHYLENE OXIDE AND CHLOROTETRAFLUOROETHANE MIXTURE with not more than 8.8% ethylene oxide  | 2        | 2A                  |               | 2.2       |                    | LQ1                             | E1           |                    | PP                 |             |   | 0                           |            |
| 3298             | ETHYLENE OXIDE AND PENTAFLUOROETHANE MIXTURE with not more than 7.9% ethylene oxide  | 2        | 2A                  |               | 2.2       |                    | LQ1                             | E1           |                    | PP                 |             |   | 0                           |            |
| 3299             | ETHYLENE OXIDE AND TETRAFLUOROETHANE MIXTURE with not more than 5.6% ethylene oxide  | 2        | 2A                  |               | 2.2       |                    | LQ1                             | E1           |                    | PP                 |             |   | 0                           |            |
| 3300             | ETHYLENE OXIDE AND CARBON DIOXIDE MIXTURE with more than 87% ethylene oxide  | 2        | 2TF                 |               | 2.3+2.1   |                    | LQ0                             | E0           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 3301             | CORROSIVE LIQUID, SELF-HEATING, N.O.S.   | 8        | CS1                 | I             | 8+4.2     | 274                | LQ0                             | E0           |                    | PP, EP             |             |   | 0                           |            |
| 3301             | CORROSIVE LIQUID, SELF-HEATING, N.O.S.   | 8        | CS1                 | II            | 8+4.2     | 274                | LQ22                            | E2           |                    | PP, EP             |             |   | 0                           |            |
| 3302             | 2-DIMETHYLAMINOETHYL ACRYLATE  | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3303             | COMPRESSED GAS, TOXIC, OXIDIZING, N.O.S.   | 2        | 1TO                 |               | 2.3+5.1   | 274                | LQ0                             | E0           |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3304             | COMPRESSED GAS, TOXIC, CORROSIVE, N.O.S.   | 2        | 1TC                 |               | 2.3+8     | 274                | LQ0                             | E0           |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 3305             | COMPRESSED GAS, TOXIC, FLAMMABLE, CORROSIVE, N.O.S.  | 2        | 1TFC                |               | 2.3+2.1+8 | 274                | LQ0                             | E0                 | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 3306             | COMPRESSED GAS, TOXIC, OXIDIZING, CORROSIVE, N.O.S.  | 2        | 1TOC                |               | 2.3+5.1+8 | 274                | LQ0                             | E0                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3307             | LIQUEFIED GAS, TOXIC, OXIDIZING, N.O.S.  | 2        | 2TO                 |               | 2.3+5.1   | 274                | LQ0                             | E0                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3308             | LIQUEFIED GAS, TOXIC, CORROSIVE, N.O.S.  | 2        | 2TC                 |               | 2.3+8     | 274                | LQ0                             | E0                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3309             | LIQUEFIED GAS, TOXIC, FLAMMABLE, CORROSIVE, N.O.S.   | 2        | 2TFC                |               | 2.3+2.1+8 | 274                | LQ0                             | E0                 | PP, EP, EX, TOX, A | VE01, VE02  |   | 2                           |            |
| 3310             | LIQUEFIED GAS, TOXIC, OXIDIZING, CORROSIVE, N.O.S.   | 2        | 2TOC                |               | 2.3+5.1+8 | 274                | LQ0                             | E0                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3311             | GAS, REFRIGERATED LIQUID, OXIDIZING, N.O.S.  | 2        | 3O                  |               | 2.2+5.1   | 274                | LQ0                             | E0                 | PP                 |             |   | 0                           |            |
| 3312             | GAS, REFRIGERATED LIQUID, FLAMMABLE, N.O.S.  | 2        | 3F                  |               | 2.1       | 274                | LQ0                             | E0                 | PP, EX, A          | VE01        |   | 1                           |            |
| 3313             | ORGANIC PIGMENTS, SELF-HEATING   | 4.2      | S2                  | II            | 4.2       |                    | LQ0                             | E2                 | PP                 |             |   | 0                           |            |
| 3313             | ORGANIC PIGMENTS, SELF-HEATING   | 4.2      | S2                  | III           | 4.2       |                    | LQ0                             | E1                 | PP                 |             |   | 0                           |            |
| 3314             | PLASTICS MOULDING COMPOUND in dough, sheet or extruded rope form evolving flammable vapour   | 9        | M3                  | III           | none      | 207<br>633         | LQ27                            | E1                 | PP, EP, EX, A      | VE01        |   | 0                           |            |
| 3315             | CHEMICAL SAMPLE, TOXIC   | 6.1      | T8                  | I             | 6.1       | 250<br>802         | LQ0                             | E5                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3316             | CHEMICAL KIT or FIRST AID KIT  | 9        | M11                 | II            | 9         | 251<br>340         | LQ0                             | E0                 | PP                 |             |   | 0                           |            |
| 3316             | CHEMICAL KIT or FIRST AID KIT  | 9        | M11                 | III           | 9         | 251<br>340         | LQ0                             | E0                 | PP                 |             |   | 0                           |            |
| 3317             | 2-AMINO-4,6-DINITROPHENOL, WETTED with not less than 20% water, by mass  | 4.1      | D                   | I             | 4.1       |                    | LQ0                             | E0                 | PP                 |             |   | 1                           |            |
| 3318             | AMMONIA SOLUTION, relative density less than 0.880 at 15 °C in water, with more than 50% ammonia   | 2        | 4TC                 |               | 2.3+8     | 23                 | LQ0                             | E0                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3319             | NITROGLYCERIN MIXTURE, DESENSITIZED, SOLID, N.O.S. with more than 2% but not more than 10% nitroglycerin, by mass                          | 4.1      | D                   | II            | 4.1       | 272<br>274         | LQ0                             | E0                 | PP                 |             |   | 0                           |            |
| 3320             | SODIUM BOROHYDRIDE AND SODIUM HYDROXIDE SOLUTION, with not more than 12% sodium borohydride and not more than 40% sodium hydroxide by mass | 8        | C5                  | II            | 8         |                    | LQ22                            | E2                 | PP, EP             |             |   | 0                           |            |
| 3320             | SODIUM BOROHYDRIDE AND SODIUM HYDROXIDE SOLUTION, with not more than 12% sodium borohydride and not more than 40% sodium hydroxide by mass | 8        | C5                  | III           | 8         |                    | LQ7                             | E1                 | PP, EP             |             |   | 0                           |            |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)                  | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 3321             | RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-II), non fissile or fissile-excepted  | 7        |                     |               | 7X        | 172<br>317<br>325<br>336 | LQ0<br>E0                       |                    | PP                 |             |   | 2                           |            |
| 3322             | RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-III), non fissile or fissile-excepted | 7        |                     |               | 7X        | 172<br>317<br>325<br>336 | LQ0<br>E0                       |                    | PP                 |             |   | 2                           |            |
| 3323             | RADIOACTIVE MATERIAL, TYPE C PACKAGE, non fissile or fissile-excepted                  | 7        |                     |               | 7X        | 172<br>317<br>325<br>336 | LQ0<br>E0                       |                    | PP                 |             |   | 2                           |            |
| 3324             | RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-II), FISSILE                          | 7        |                     |               | 7X+7E     | 326<br>336               | LQ0<br>E0                       |                    | PP                 |             |   | 2                           |            |
| 3325             | RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY, (LSA-III), FISSILE                        | 7        |                     |               | 7X+7E     | 172<br>326<br>336        | LQ0<br>E0                       |                    | PP                 |             |   | 2                           |            |
| 3326             | RADIOACTIVE MATERIAL, SURFACE CONTAMINATED OBJECTS (SCO-I or SCO-II), FISSILE          | 7        |                     |               | 7X+7E     | 172<br>336               | LQ0<br>E0                       |                    | PP                 |             |   | 2                           |            |
| 3327             | RADIOACTIVE MATERIAL, TYPE A PACKAGE, FISSILE, non-special form                        | 7        |                     |               | 7X+7E     | 172<br>326               | LQ0<br>E0                       |                    | PP                 |             |   | 2                           |            |
| 3328             | RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE                                       | 7        |                     |               | 7X+7E     | 172<br>337               | LQ0<br>E0                       |                    | PP                 |             |   | 2                           |            |
| 3329             | RADIOACTIVE MATERIAL, TYPE B(M) PACKAGE, FISSILE                                       | 7        |                     |               | 7X+7E     | 172<br>337               | LQ0<br>E0                       |                    | PP                 |             |   | 2                           |            |
| 3330             | RADIOACTIVE MATERIAL, TYPE C PACKAGE, FISSILE  | 7        |                     |               | 7X+7E     | 172                      | LQ0<br>E0                       |                    | PP                 |             |   | 2                           |            |
| 3331             | RADIOACTIVE MATERIAL, TRANSPORTED UNDER SPECIAL ARRANGEMENT, FISSILE                   | 7        |                     |               | 7X+7E     | 172                      | LQ0<br>E0                       |                    | PP                 |             |   | 2                           |            |
| 3332             | RADIOACTIVE MATERIAL, TYPE A PACKAGE, SPECIAL FORM, non fissile or fissile-excepted    | 7        |                     |               | 7X        | 172<br>317               | LQ0<br>E0                       |                    | PP                 |             |   | 2                           |            |
| 3333             | RADIOACTIVE MATERIAL, TYPE A PACKAGE, SPECIAL FORM, FISSILE                            | 7        |                     |               | 7X+7E     | 172                      | LQ0<br>E0                       |                    | PP                 |             |   | 2                           |            |
| 3334             | Aviation regulated liquid, n.o.s.  | 9        | M11                 |               |           |                          |                                 |                    |                    |             |   |                             |            |
| 3335             | Aviation regulated solid, n.o.s.   | 9        | M11                 |               |           |                          |                                 |                    |                    |             |   |                             |            |
| 3336             | MERCAPTANS, LIQUID, FLAMMABLE, N.O.S. or MERCAPTAN MIXTURE, LIQUID, FLAMMABLE, N.O.S.  | 3        | F1                  | I             | 3         | 274                      | LQ3<br>E3                       |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 3336             | MERCAPTANS, LIQUID, FLAMMABLE, N.O.S. or MERCAPTAN MIXTURE, LIQUID, FLAMMABLE, N.O.S.  | 3        | F1                  | II            | 3         | 274<br>640C              | LQ4<br>E2                       |                    | PP, EX, A          | VE01        |   | 1                           |            |

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|------------------|---|----------|---------------------|---------------|-----------|-------------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)                 | 3.4.6 (7a) 3.4.6 (7b)           | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 3336             | MERCAPTANS, LIQUID, FLAMMABLE, N.O.S. or MERCAPTAN MIXTURE, LIQUID, FLAMMABLE, N.O.S. (vapour pressure at 50 °C not more than 110 kPa)  | 3        | F1                  | II            | 3         | 274<br>640D             | LQ4<br>E2                       |                    | PP, EX, A          | VE01        |   | 1                           |            |
| 3336             | MERCAPTANS, LIQUID, FLAMMABLE, N.O.S. or MERCAPTAN MIXTURE, LIQUID, FLAMMABLE, N.O.S.   | 3        | F1                  | III           | 3         | 274                     | LQ7<br>E1                       |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 3337             | REFRIGERANT GAS R 404A (Pentafluoroethane, 1,1,1-trifluoroethane, and 1,1,1,2-tetrafluoroethane zeotropic mixture with approximately 44% pentafluoroethane and 52% 1,1,1-trifluoroethane) | 2        | 2A                  |               | 2.2       |                         | LQ1<br>E1                       |                    | PP                 |             |   | 0                           |            |
| 3338             | REFRIGERANT GAS R 407A (Difluoromethane, pentafluoroethane, and 1,1,1,2-tetrafluoroethane zeotropic mixture with approximately 20% difluoromethane and 40% pentafluoroethane)             | 2        | 2A                  |               | 2.2       |                         | LQ1<br>E1                       |                    | PP                 |             |   | 0                           |            |
| 3339             | REFRIGERANT GAS R 407B (Difluoromethane, pentafluoroethane, and 1,1,1,2-tetrafluoroethane zeotropic mixture with approximately 10% difluoromethane and 70% pentafluoroethane)             | 2        | 2A                  |               | 2.2       |                         | LQ1<br>E1                       |                    | PP                 |             |   | 0                           |            |
| 3340             | REFRIGERANT GAS R 407C (Difluoromethane, pentafluoroethane, and 1,1,1,2-tetrafluoroethane zeotropic mixture with approximately 23% difluoromethane and 25% pentafluoroethane)             | 2        | 2A                  |               | 2.2       |                         | LQ1<br>E1                       |                    | PP                 |             |   | 0                           |            |
| 3341             | THIOUREA DIOXIDE  | 4.2      | S2                  | II            | 4.2       |                         | LQ0<br>E2                       |                    | PP                 |             |   | 0                           |            |
| 3341             | THIOUREA DIOXIDE  | 4.2      | S2                  | III           | 4.2       |                         | LQ0<br>E1                       |                    | PP                 |             |   | 0                           |            |
| 3342             | XANTHATES   | 4.2      | S2                  | II            | 4.2       |                         | LQ0<br>E2                       |                    | PP                 |             |   | 0                           |            |
| 3342             | XANTHATES   | 4.2      | S2                  | III           | 4.2       |                         | LQ0<br>E1                       |                    | PP                 |             |   | 0                           |            |
| 3343             | NITROGLYCERIN MIXTURE, DESENSITIZED, LIQUID, FLAMMABLE, N.O.S. with not more than 30% nitroglycerin, by mass  | 3        | D                   |               | 3         | 274<br>278              | LQ0<br>E0                       |                    | PP, EX, A          | VE01        |   | 0                           |            |
| 3344             | PENTAERYTHRITOL TETRANITRATE (PENTAERYTHRITOL TETRANITRATE; PETN) MIXTURE, DESENSITIZED, SOLID, N.O.S. with more than 10% but not more than 20% PETN, by mass                             | 4.1      | D                   | II            | 4.1       | 272<br>274              | LQ0<br>E0                       |                    | PP                 |             |   | 1                           |            |
| 3345             | PHENOXYACETIC ACID DERIVATIVE PESTICIDE, SOLID, TOXIC   | 6.1      | T7                  | I             | 6.1       | 61<br>274<br>648<br>802 | LQ0<br>E5                       |                    | PP, EP             |             |   | 2                           |            |



| UN No. or ID No. | Name and description   | Class    | Classification Code | Packing group | Labels    | Special provisions      | Limited and excepted quantities |              | Carriage permitted | Equipment required    | Ventilation   | Provisions concerning loading, unloading and carriage |            | Number of blue cones/lights | Remarks |
|------------------|--|----------|---------------------|---------------|-----------|-------------------------|---------------------------------|--------------|--------------------|-----------------------|---------------|---|------------|-----------------------------|---------|
|                  |  |          |                     |               |           |                         | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                       |               | 7.1.6 (11)  | 7.1.6 (12) |                             |         |
|                  | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)                 | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)             | 7.1.6 (10)    | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 3345             | PHENOXYACETIC ACID DERIVATIVE<br>PESTICIDE, SOLID, TOXIC   | 6.1      | T7                  | II            | 6.1       | 61<br>274<br>648<br>802 | LQ18                            | E4           |                    | PP, EP                |               |   | 2          |                             |         |
| 3345             | PHENOXYACETIC ACID DERIVATIVE<br>PESTICIDE, SOLID, TOXIC   | 6.1      | T7                  | III           | 6.1       | 61<br>274<br>648<br>802 | LQ9                             | E1           |                    | PP, EP                |               |   | 0          |                             |         |
| 3346             | PHENOXYACETIC ACID DERIVATIVE<br>PESTICIDE, LIQUID, FLAMMABLE, TOXIC,<br>flash-point less than 23 °C     | 3        | FT2                 | I             | 3+6.1     | 61<br>274<br>802        | LQ3                             | E0           |                    | PP, EP, EX,<br>TOX, A | VE01,<br>VE02 |   | 2          |                             |         |
| 3346             | PHENOXYACETIC ACID DERIVATIVE<br>PESTICIDE, LIQUID, FLAMMABLE, TOXIC,<br>flash-point less than 23 °C     | 3        | FT2                 | II            | 3+6.1     | 61<br>274<br>802        | LQ4                             | E2           |                    | PP, EP, EX,<br>TOX, A | VE01,<br>VE02 |   | 2          |                             |         |
| 3347             | PHENOXYACETIC ACID DERIVATIVE<br>PESTICIDE, LIQUID, TOXIC, FLAMMABLE,<br>flash-point not less than 23 °C | 6.1      | TF2                 | I             | 6.1+3     | 61<br>274<br>802        | LQ0                             | E5           |                    | PP, EP, EX,<br>TOX, A | VE01,<br>VE02 |   | 2          |                             |         |
| 3347             | PHENOXYACETIC ACID DERIVATIVE<br>PESTICIDE, LIQUID, TOXIC, FLAMMABLE,<br>flash-point not less than 23 °C | 6.1      | TF2                 | II            | 6.1+3     | 61<br>274<br>802        | LQ17                            | E4           |                    | PP, EP, EX,<br>TOX, A | VE01,<br>VE02 |   | 2          |                             |         |
| 3347             | PHENOXYACETIC ACID DERIVATIVE<br>PESTICIDE, LIQUID, TOXIC, FLAMMABLE,<br>flash-point not less than 23 °C | 6.1      | TF2                 | III           | 6.1+3     | 61<br>274<br>802        | LQ7                             | E1           |                    | PP, EP, EX,<br>TOX, A | VE01,<br>VE02 |   | 0          |                             |         |
| 3348             | PHENOXYACETIC ACID DERIVATIVE<br>PESTICIDE, LIQUID, TOXIC  | 6.1      | T6                  | I             | 6.1       | 61<br>274<br>648<br>802 | LQ0                             | E5           |                    | PP, EP, TOX,<br>A     | VE02          |   | 2          |                             |         |
| 3348             | PHENOXYACETIC ACID DERIVATIVE<br>PESTICIDE, LIQUID, TOXIC  | 6.1      | T6                  | II            | 6.1       | 61<br>274<br>648<br>802 | LQ17                            | E4           |                    | PP, EP, TOX,<br>A     | VE02          |   | 2          |                             |         |
| 3348             | PHENOXYACETIC ACID DERIVATIVE<br>PESTICIDE, LIQUID, TOXIC  | 6.1      | T6                  | III           | 6.1       | 61<br>274<br>648<br>802 | LQ7                             | E1           |                    | PP, EP, TOX,<br>A     | VE02          |   | 0          |                             |         |
| 3349             | PYRETHROID PESTICIDE, SOLID, TOXIC   | 6.1      | T7                  | I             | 6.1       | 61<br>274<br>648<br>802 | LQ0                             | E5           |                    | PP, EP                |               |   | 2          |                             |         |
| 3349             | PYRETHROID PESTICIDE, SOLID, TOXIC   | 6.1      | T7                  | II            | 6.1       | 61<br>274<br>648<br>802 | LQ18                            | E4           |                    | PP, EP                |               |   | 2          |                             |         |

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|------------------|---|----------|---------------------|---------------|-----------|-------------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |   |          |                     |               |           |                         | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (10)  | 7.1.6 (11) |                             |         |
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)                 | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 3349             | PYRETHROID PESTICIDE, SOLID, TOXIC  | 6.1      | T7                  | III           | 6.1       | 61<br>274<br>648<br>802 | LQ9                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 3350             | PYRETHROID PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C                       | 3        | FT2                 | I             | 3+6.1     | 61<br>274<br>802        | LQ3                             | E0           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 3350             | PYRETHROID PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C                       | 3        | FT2                 | II            | 3+6.1     | 61<br>274<br>802        | LQ4                             | E2           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 3351             | PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C                   | 6.1      | TF2                 | I             | 6.1+3     | 61<br>274<br>802        | LQ0                             | E5           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 3351             | PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C                   | 6.1      | TF2                 | II            | 6.1+3     | 61<br>274<br>802        | LQ17                            | E4           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 3351             | PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C                   | 6.1      | TF2                 | III           | 6.1+3     | 61<br>274<br>802        | LQ7                             | E1           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 0          |                             |         |
| 3352             | PYRETHROID PESTICIDE, LIQUID, TOXIC   | 6.1      | T6                  | I             | 6.1       | 61<br>274<br>648<br>802 | LQ0                             | E5           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 3352             | PYRETHROID PESTICIDE, LIQUID, TOXIC   | 6.1      | T6                  | II            | 6.1       | 61<br>274<br>648<br>802 | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 3352             | PYRETHROID PESTICIDE, LIQUID, TOXIC   | 6.1      | T6                  | III           | 6.1       | 61<br>274<br>648<br>802 | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0          |                             |         |
| 3354             | INSECTICIDE GAS, FLAMMABLE, N.O.S.  | 2        | 2F                  |               | 2.1       | 274                     | LQ0                             | E0           |                    | PP, EX, A          | VE01        |   | 1          |                             |         |
| 3355             | INSECTICIDE GAS, TOXIC, FLAMMABLE, N.O.S.   | 2        | 2TF                 |               | 2.3+2.1   | 274                     | LQ0                             | E0           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |
| 3356             | OXYGEN GENERATOR, CHEMICAL  | 5.1      | O3                  | II            | 5.1       | 284                     | LQ0                             | E0           |                    | PP                 |             |   | 0          |                             |         |
| 3357             | NITROGLYCERIN MIXTURE, DESENSITIZED, LIQUID, N.O.S. with not more than 30% nitroglycerin, by mass | 3        | D                   | II            | 3         | 274<br>288              | LQ0                             | E0           |                    | PP, EX, A          | VE01        |   | 1          |                             |         |
| 3358             | REFRIGERATING MACHINES containing flammable, non-toxic, liquefied gas                             | 2        | 6F                  |               | 2.1       | 291                     | LQ0                             | E0           |                    | PP, EX, A          | VE01        |   | 1          |                             |         |
| 3359             | FUMIGATED UNIT  | 9        | M11                 |               |           | 302                     |                                 |              |                    | PP                 |             |   |            |                             |         |
| 3360             | Fibres, vegetable, dry  | 4.1      | F1                  |               |           |                         |                                 |              |                    |                    |             |   |            |                             |         |
| 3361             | CHLOROSILANES, TOXIC, CORROSIVE, N.O.S.   | 6.1      | TC1                 | II            | 6.1+8     | 274<br>802              | LQ0                             | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 3362             | CHLOROSILANES, TOXIC, CORROSIVE, FLAMMABLE, N.O.S.  | 6.1      | TFC                 | II            | 6.1+3+8   | 274                     | LQ0                             | E4           |                    | PP, EP, EX, TOX, A | VE01, VE02  |   | 2          |                             |         |

NOT SUBJECT TO ADN

| UN No. or ID No. | Name and description   | Class | Classification Code | Packing group | Labels  | Special provisions | Limited and excepted quantities | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage | Number of blue cones/lights | Remarks |
|------------------|--|-------|---------------------|---------------|---------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|---------|
| (1)              | (2)  | (3a)  | (3b)                | (4)           | (5)     | (6)                | (7a)                            | (8)                | (9)                | (10)        | (11)  | (12)                        | (13)    |
| 3363             | 3.1.2<br>Dangerous goods in machinery or dangerous goods in apparatus  | 9     | M11                 |               |         |                    |                                 |                    |                    |             |   |                             |         |
| 3364             | TRINITROPHENOL (PICRIC ACID) WETTED with not less than 10% water, by mass  | 4.1   | D                   | I             | 4.1     |                    | LQ0                             | E0                 | PP                 |             |   | 1                           |         |
| 3365             | TRINITROCHLOROBENZENE (PICRYL CHLORIDE) WETTED with not less than 10% water, by mass   | 4.1   | D                   | I             | 4.1     |                    | LQ0                             | E0                 | PP                 |             |   | 1                           |         |
| 3366             | TRINITROTOLUENE (TNT), WETTED with not less than 10% water, by mass  | 4.1   | D                   | I             | 4.1     |                    | LQ0                             | E0                 | PP                 |             |   | 1                           |         |
| 3367             | TRINITROBENZENE, WETTED with not less than 10% water, by mass  | 4.1   | D                   | I             | 4.1     |                    | LQ0                             | E0                 | PP                 |             |   | 1                           |         |
| 3368             | TRINITROBENZOIC ACID, WETTED with not less than 10% water, by mass   | 4.1   | D                   | I             | 4.1     |                    | LQ0                             | E0                 | PP                 |             |   | 1                           |         |
| 3369             | SODIUM DINITRO-o-CRESOLATE, WETTED with not less than 10% water, by mass   | 4.1   | DT                  | I             | 4.1+6.1 | 802                | LQ0                             | E0                 | PP                 |             |   | 2                           |         |
| 3370             | UREA NITRATE, WETTED with not less than 10% water, by mass   | 4.1   | D                   | I             | 4.1     |                    | LQ0                             | E0                 | PP                 |             |   | 1                           |         |
| 3371             | 2-METHYLBUTANAL  | 3     | F1                  | II            | 3       |                    | LQ4                             | E2                 | PP, EX. A          | VE01        |   | 1                           |         |
| 3373             | BIOLOGICAL SUBSTANCE, CATEGORY B   | 6.2   | I4                  |               | 6.2     | 319                | LQ0                             | E0                 | PP                 |             |   | 0                           |         |
| 3373             | BIOLOGICAL SUBSTANCE, CATEGORY B (animal material only)  | 6.2   | I4                  |               | 6.2     | 319                | LQ0                             | E0                 | PP                 |             |   | 0                           |         |
| 3374             | ACETYLENE, SOLVENT FREE  | 2     | 2F                  |               | 2.1     |                    | LQ0                             | E0                 | PP, EX. A          | VE01        |   | 1                           |         |
| 3375             | AMMONIUM NITRATE EMULSION, or SUSPENSION or GEL, intermediate for blasting explosives, liquid  | 5.1   | O1                  | II            | 5.1     | 309                | LQ0                             | E2                 | PP                 |             |   | 0                           |         |
| 3375             | AMMONIUM NITRATE EMULSION, or SUSPENSION or GEL, intermediate for blasting explosives, solid   | 5.1   | O2                  | II            | 5.1     | 309                | LQ0                             | E2                 | PP                 |             |   | 0                           |         |
| 3376             | 4-NITROPHENYLHYDRAZINE, with not less than 30% water, by mass  | 4.1   | D                   | I             | 4.1     |                    | LQ0                             | E0                 | PP                 |             |   | 1                           |         |
| 3377             | SODIUM PERBORATE MONOHYDRATE   | 5.1   | O2                  | III           | 5.1     |                    | LQ12                            | E1                 | PP                 |             |   | 0                           |         |
| 3378             | SODIUM CARBONATE PEROXYHYDRATE   | 5.1   | O2                  | II            | 5.1     |                    | LQ11                            | E2                 | PP                 |             |   | 0                           |         |
| 3378             | SODIUM CARBONATE PEROXYHYDRATE   | 5.1   | O2                  | III           | 5.1     |                    | LQ12                            | E1                 | PP                 |             |   | 0                           |         |
| 3379             | DESENSITIZED EXPLOSIVE, LIQUID, N.O.S.   | 3     | D                   | I             | 3       | 274<br>311         | LQ0                             | E0                 | PP, EX. A          | VE01        |   | 1                           |         |
| 3380             | DESENSITIZED EXPLOSIVE, SOLID, N.O.S.  | 4.1   | D                   | I             | 4.1     | 274<br>311         | LQ0                             | E0                 | PP                 |             |   | 1                           |         |
| 3381             | TOXIC BY INHALATION LIQUID, N.O.S. with an inhalation toxicity lower than or equal to 200 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 500 LC <sub>50</sub> | 6.1   | T1 or T4            | I             | 6.1     | 274<br>802         | LQ0                             | E5                 | PP, EP, TOX, A     | VE02        |   | 2                           |         |

NOT SUBJECT TO ADN [see also 1.1.3.1 (b)]

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|------------------|--|------------|---------------------|----------------|--------------|--------------------|---------------------------------|----------------|--------------------|--------------------|--------------|---|--------------|-----------------------------|---------|
|                  |  |            |                     |                |              |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b)   |                    |                    |              | 7.1.6 (10)  | 7.1.6 (11)   |                             |         |
|                  | <b>3.1.2</b>   | <b>2.2</b> | <b>2.2</b>          | <b>2.1.1.3</b> | <b>5.2.2</b> | <b>3.3</b>         | <b>3.4.6</b>                    | <b>3.5.1.2</b> | <b>3.2.1</b>       | <b>8.1.5</b>       | <b>7.1.6</b> | <b>7.1.6</b>  | <b>7.1.5</b> | <b>3.2.1</b>                |         |
| (1)              | (2)  | (3a)       | (3b)                | (4)            | (5)          | (6)                | (7a)                            | (7b)           | (8)                | (9)                | (10)         | (11)  | (12)         | (13)                        |         |
| 3382             | TOXIC BY INHALATION LIQUID, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 10 LC <sub>50</sub>                 | 6.1        | T1 or T4            | I              | 6.1          | 274<br>802         | LQ0                             | E5             |                    | PP, EP, TOX, A     | VE02         |   | 2            |                             |         |
| 3383             | TOXIC BY INHALATION LIQUID, FLAMMABLE, N.O.S. with an inhalation toxicity lower than or equal to 200 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 500 LC <sub>50</sub>      | 6.1        | TF1                 | I              | 6.1 +3       | 274<br>802         | LQ0                             | E5             |                    | PP, EP, EX, TOX, A | VE01, VE02   |   | 2            |                             |         |
| 3384             | TOXIC BY INHALATION LIQUID, FLAMMABLE, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 10 LC <sub>50</sub>      | 6.1        | TF1                 | I              | 6.1 +3       | 274<br>802         | LQ0                             | E5             |                    | PP, EP, EX, TOX, A | VE01, VE02   |   | 2            |                             |         |
| 3385             | TOXIC BY INHALATION LIQUID, WATER-REACTIVE, N.O.S. with an inhalation toxicity lower than or equal to 200 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 500 LC <sub>50</sub> | 6.1        | TW1                 | I              | 6.1 +4,3     | 274<br>802         | LQ0                             | E5             |                    | PP, EP, TOX, A     | VE02         |   | 2            |                             |         |
| 3386             | TOXIC BY INHALATION LIQUID, WATER-REACTIVE, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 10 LC <sub>50</sub> | 6.1        | TW1                 | I              | 6.1 +4,3     | 274<br>802         | LQ0                             | E5             |                    | PP, EP, TOX, A     | VE02         |   | 2            |                             |         |
| 3387             | TOXIC BY INHALATION LIQUID, OXIDIZING, N.O.S. with an inhalation toxicity lower than or equal to 200 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 500 LC <sub>50</sub>      | 6.1        | TO1                 | I              | 6.1 +5.1     | 274<br>802         | LQ0                             | E5             |                    | PP, EP, TOX, A     | VE02         |   | 2            |                             |         |
| 3388             | TOXIC BY INHALATION LIQUID, OXIDIZING, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 10 LC <sub>50</sub>      | 6.1        | TO1                 | I              | 6.1 +5.1     | 274<br>802         | LQ0                             | E5             |                    | PP, EP, TOX, A     | VE02         |   | 2            |                             |         |
| 3389             | TOXIC BY INHALATION LIQUID, CORROSIVE, N.O.S. with an inhalation toxicity lower than or equal to 200 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 500 LC <sub>50</sub>      | 6.1        | TC1 or TC3          | I              | 6.1 +8       | 274<br>802         | LQ0                             | E5             |                    | PP, EP, TOX, A     | VE02         |   | 2            |                             |         |

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|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |   |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (10)  | 7.1.6 (11) |                             |         |
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 3390             | TOXIC BY INHALATION LIQUID, CORROSIVE, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 10 LC <sub>50</sub> | 6.1      | TC1 or TC3          | I             | 6.1 +8    | 274<br>802         | LQ0                             | E5           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 3391             | ORGANOMETALLIC SUBSTANCE, SOLID, PYROPHORIC   | 4.2      | S5                  | I             | 4.2       | 274                | LQ0                             | E0           |                    | PP                 |             |   | 0          |                             |         |
| 3392             | ORGANOMETALLIC SUBSTANCE, LIQUID, PYROPHORIC  | 4.2      | S5                  | I             | 4.2       | 274                | LQ0                             | E0           |                    | PP                 |             |   | 0          |                             |         |
| 3393             | ORGANOMETALLIC SUBSTANCE, SOLID, PYROPHORIC, WATER REACTIVE   | 4.2      | SW                  | I             | 4.2 +4.3  | 274                | LQ0                             | E0           |                    | PP, EX, A          | VE01        |   | 0          |                             |         |
| 3394             | ORGANOMETALLIC SUBSTANCE, LIQUID, PYROPHORIC, WATER REACTIVE  | 4.2      | SW                  | I             | 4.2 +4.3  | 274                | LQ0                             | E0           |                    | PP, EX, A          | VE01        |   | 0          |                             |         |
| 3395             | ORGANOMETALLIC SUBSTANCE, SOLID, WATER REACTIVE   | 4.3      | W2                  | I             | 4.3       | 274                | LQ0                             | E0           |                    | PP, EX, A          | VE01        | HA08  | 0          |                             |         |
| 3395             | ORGANOMETALLIC SUBSTANCE, SOLID, WATER REACTIVE   | 4.3      | W2                  | II            | 4.3       | 274                | LQ11                            | E2           |                    | PP, EX, A          | VE01        | HA08  | 0          |                             |         |
| 3395             | ORGANOMETALLIC SUBSTANCE, SOLID, WATER REACTIVE   | 4.3      | W2                  | III           | 4.3       | 274                | LQ12                            | E1           |                    | PP, EX, A          | VE01        | HA08  | 0          |                             |         |
| 3396             | ORGANOMETALLIC SUBSTANCE, SOLID, WATER REACTIVE, FLAMMABLE  | 4.3      | WF2                 | I             | 4.3 +4.1  | 274                | LQ0                             | E0           |                    | PP, EX, A          | VE01        |   | 1          |                             |         |
| 3396             | ORGANOMETALLIC SUBSTANCE, SOLID, WATER REACTIVE, FLAMMABLE  | 4.3      | WF2                 | II            | 4.3 +4.1  | 274                | LQ11                            | E2           |                    | PP, EX, A          | VE01        |   | 1          |                             |         |
| 3396             | ORGANOMETALLIC SUBSTANCE, SOLID, WATER REACTIVE, FLAMMABLE  | 4.3      | WF2                 | III           | 4.3 +4.1  | 274                | LQ12                            | E1           |                    | PP, EX, A          | VE01        |   | 0          |                             |         |
| 3397             | ORGANOMETALLIC SUBSTANCE, SOLID, WATER REACTIVE, SELF-HEATING   | 4.3      | WS                  | I             | 4.3 +4.2  | 274                | LQ0                             | E0           |                    | PP, EX, A          | VE01        | HA08  | 0          |                             |         |
| 3397             | ORGANOMETALLIC SUBSTANCE, SOLID, WATER REACTIVE, SELF-HEATING   | 4.3      | WS                  | II            | 4.3 +4.2  | 274                | LQ11                            | E2           |                    | PP, EX, A          | VE01        | HA08  | 0          |                             |         |
| 3397             | ORGANOMETALLIC SUBSTANCE, SOLID, WATER REACTIVE, SELF-HEATING   | 4.3      | WS                  | III           | 4.3 +4.2  | 274                | LQ12                            | E1           |                    | PP, EX, A          | VE01        | HA08  | 0          |                             |         |
| 3398             | ORGANOMETALLIC SUBSTANCE, LIQUID, WATER REACTIVE  | 4.3      | W1                  | I             | 4.3       | 274                | LQ0                             | E0           |                    | PP, EX, A          | VE01        | HA08  | 0          |                             |         |
| 3398             | ORGANOMETALLIC SUBSTANCE, LIQUID, WATER REACTIVE  | 4.3      | W1                  | II            | 4.3       | 274                | LQ10                            | E2           |                    | PP, EX, A          | VE01        | HA08  | 0          |                             |         |
| 3398             | ORGANOMETALLIC SUBSTANCE, LIQUID, WATER REACTIVE  | 4.3      | W1                  | III           | 4.3       | 274                | LQ13                            | E1           |                    | PP, EX, A          | VE01        | HA08  | 0          |                             |         |
| 3399             | ORGANOMETALLIC SUBSTANCE, LIQUID, WATER REACTIVE, FLAMMABLE   | 4.3      | WF1                 | I             | 4.3 +3    | 274                | LQ0                             | E0           |                    | PP, EX, A          | VE01        | HA08  | 1          |                             |         |
| 3399             | ORGANOMETALLIC SUBSTANCE, LIQUID, WATER REACTIVE, FLAMMABLE   | 4.3      | WF1                 | II            | 4.3 +3    | 274                | LQ10                            | E2           |                    | PP, EX, A          | VE01        | HA08  | 1          |                             |         |
| 3399             | ORGANOMETALLIC SUBSTANCE, LIQUID, WATER REACTIVE, FLAMMABLE   | 4.3      | WF1                 | III           | 4.3 +3    | 274                | LQ13                            | E1           |                    | PP, EX, A          | VE01        | HA08  | 0          |                             |         |
| 3400             | ORGANOMETALLIC SUBSTANCE, SOLID, SELF-HEATING   | 4.2      | S5                  | II            | 4.2       | 274                | LQ18                            | E2           |                    | PP                 |             |   | 0          |                             |         |

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|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 3400             | ORGANOMETALLIC SUBSTANCE, SOLID, SELF-HEATING                         | 4.2      | S5                  | III           | 4.2       | 274                | LQ11                            | E1                 | PP                 |             |   | 0                           |            |
| 3401             | ALKALI METAL AMALGAM, SOLID   | 4.3      | W2                  | I             | 4.3       | 182<br>274         | LQ0                             | E0                 | PP, EX, A          | VE01        | HA08  | 0                           |            |
| 3402             | ALKALINE EARTH METAL AMALGAM, SOLID                                   | 4.3      | W2                  | I             | 4.3       | 183<br>274<br>506  | LQ0                             | E0                 | PP, EX, A          | VE01        | HA08  | 0                           |            |
| 3403             | POTASSIUM METAL ALLOYS, SOLID   | 4.3      | W2                  | I             | 4.3       |                    | LQ0                             | E0                 | PP, EX, A          | VE01        | HA08  | 0                           |            |
| 3404             | Potassium sodium alloys, SOLID  | 4.3      | W2                  | I             | 4.3       |                    | LQ0                             | E0                 | PP, EX, A          | VE01        | HA08  | 0                           |            |
| 3405             | BARIUM CHLORATE SOLUTION  | 5.1      | OT1                 | II            | 5.1+6.1   | 802                | LQ10                            | E2                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3405             | BARIUM CHLORATE SOLUTION  | 5.1      | OT1                 | III           | 5.1+6.1   | 802                | LQ13                            | E1                 | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 3406             | BARIUM PERCHLORATE SOLUTION   | 5.1      | OT1                 | II            | 5.1+6.1   | 802                | LQ10                            | E2                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3406             | BARIUM PERCHLORATE SOLUTION   | 5.1      | OT1                 | III           | 5.1+6.1   | 802                | LQ13                            | E1                 | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 3407             | CHLORATE AND MAGNESIUM CHLORIDE MIXTURE SOLUTION                      | 5.1      | O1                  | II            | 5.1       |                    | LQ10                            | E2                 | PP                 |             |   | 0                           |            |
| 3407             | CHLORATE AND MAGNESIUM CHLORIDE MIXTURE SOLUTION                      | 5.1      | O1                  | III           | 5.1       |                    | LQ13                            | E1                 | PP                 |             |   | 0                           |            |
| 3408             | LEAD PERCHLORATE SOLUTION   | 5.1      | OT1                 | II            | 5.1+6.1   |                    | LQ10                            | E2                 | PP                 |             |   | 0                           |            |
| 3408             | LEAD PERCHLORATE SOLUTION   | 5.1      | OT1                 | III           | 5.1+6.1   |                    | LQ13                            | E1                 | PP                 |             |   | 0                           |            |
| 3409             | CHLORONITROBENZENES, LIQUID   | 6.1      | T1                  | II            | 6.1       | 279<br>802         | LQ17                            | E4                 | PP, EP             |             |   | 2                           |            |
| 3410             | 4-CHLORO-o-TOLUIDINE HYDROCHLORIDE SOLUTION                           | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1                 | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 3411             | beta-NAPHTHYLAMINE SOLUTION   | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3411             | beta-NAPHTHYLAMINE SOLUTION   | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1                 | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 3412             | FORMIC ACID with not less than 10% but not more than 85% acid by mass | 8        | C3                  | II            | 8         |                    | LQ22                            | E2                 | PP, EP             |             |   | 0                           |            |
| 3412             | FORMIC ACID with not less than 5% but less than 10% acid by mass      | 8        | C3                  | III           | 8         |                    | LQ7                             | E1                 | PP, EP             |             |   | 0                           |            |
| 3413             | POTASSIUM CYANIDE SOLUTION  | 6.1      | T4                  | I             | 6.1       | 802                | LQ0                             | E5                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3413             | POTASSIUM CYANIDE SOLUTION  | 6.1      | T4                  | II            | 6.1       | 802                | LQ17                            | E4                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3413             | POTASSIUM CYANIDE SOLUTION  | 6.1      | T4                  | III           | 6.1       | 802                | LQ7                             | E1                 | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 3414             | SODIUM CYANIDE SOLUTION   | 6.1      | T4                  | I             | 6.1       | 802                | LQ0                             | E5                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3414             | SODIUM CYANIDE SOLUTION   | 6.1      | T4                  | II            | 6.1       | 802                | LQ17                            | E4                 | PP, EP, TOX, A     | VE02        |   | 2                           |            |

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|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|-----------------------------|------------|
|                  |   |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             |   |                             |            |
| (1)              | 3.1.2 (2)                                       | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12)                  | 3.2.1 (13) |
| 3414             | SODIUM CYANIDE SOLUTION                         | 6.1      | T4                  | III           | 6.1       | 802                | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 3415             | SODIUM FLUORIDE SOLUTION                        | 6.1      | T4                  | III           | 6.1       | 802                | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 3416             | CHLOROACETOPHENONE, LIQUID                      | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3417             | XYLYL-BROMIDE, SOLID                            | 6.1      | T2                  | II            | 6.1       | 802                | LQ18                            | E4           |                    | PP, EP             |             |   | 2                           |            |
| 3418             | 2,4-TOLYLENEDIAMINE SOLUTION                    | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 3419             | BORON TRIFLUORIDE ACETIC ACID COMPLEX, SOLID    | 8        | C4                  | II            | 8         |                    | LQ23                            | E2           |                    | PP, EP             |             |   | 0                           |            |
| 3420             | BORON TRIFLUORIDE PROPIONIC ACID COMPLEX, SOLID | 8        | C4                  | II            | 8         |                    | LQ23                            | E2           |                    | PP, EP             |             |   | 0                           |            |
| 3421             | POTASSIUM HYDROGENDI-FLUORIDE SOLUTION          | 8        | CT1                 | II            | 8 +6.1    | 802                | LQ22                            | E2           |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3421             | POTASSIUM HYDROGENDI-FLUORIDE SOLUTION          | 8        | CT1                 | III           | 8 +6.1    | 802                | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 3422             | POTASSIUM FLUORIDE SOLUTION                     | 6.1      | T4                  | III           | 6.1       | 802                | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 3423             | TETRAMETHYLAMMONIUM HYDROXIDE, SOLID            | 8        | C8                  | II            | 8         |                    | LQ24                            | E2           |                    | PP, EP             |             |   | 0                           |            |
| 3424             | AMMONIUM DINITRO -o-CRESOLATE SOLUTION          | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3424             | AMMONIUM DINITRO -o-CRESOLATE SOLUTION          | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 3425             | BROMOACETIC ACID, SOLID                         | 8        | C4                  | II            | 8         |                    | LQ23                            | E2           |                    | PP, EP             |             |   | 0                           |            |
| 3426             | ACRYLAMIDE SOLUTION                             | 6.1      | T1                  | III           | 6.1       |                    | LQ7                             | E1           | T                  | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 3427             | CHLOROBENZYL CHLORIDES, SOLID                   | 6.1      | T2                  | III           | 6.1       | 802                | LQ9                             | E1           |                    | PP, EP             |             |   | 0                           |            |
| 3428             | 3-CHLORO-4-METHYLPHENYL ISOCYANATE, SOLID       | 6.1      | T2                  | II            | 6.1       | 802                | LQ18                            | E4           |                    | PP, EP             |             |   | 2                           |            |
| 3429             | CHLOROTOLUIDINES, LIQUID                        | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 3430             | XYLENOLS, liquid                                | 6.1      | T1                  | II            | 6.1       | 802                | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2                           |            |
| 3431             | NITROBENZOTRIFLUORIDES, solid                   | 6.1      | T2                  | II            | 6.1       | 802                | LQ18                            | E4           |                    | PP, EP             |             |   | 2                           |            |
| 3432             | POLYCHLORINATED BIPHENYLS, SOLID                | 9        | M2                  | II            | 9         | 305 802            | LQ25                            | E2           |                    | PP, EP             |             |   | 0                           |            |
| 3434             | NITROCRESOLS, liquid                            | 6.1      | T1                  | III           | 6.1       | 802                | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0                           |            |
| 3436             | HEXAFLUOROACETONE HYDRATE, SOLID                | 6.1      | T2                  | II            | 6.1       | 802                | LQ18                            | E4           |                    | PP, EP             |             |   | 2                           |            |
| 3437             | CHLOROCRESOLS, solid                            | 6.1      | T2                  | II            | 6.1       | 802                | LQ18                            | E4           |                    | PP, EP             |             |   | 2                           |            |
| 3438             | alpha-METHYLBENZYL ALCOHOL, SOLID               | 6.1      | T2                  | III           | 6.1       | 802                | LQ9                             | E1           |                    | PP, EP             |             |   | 0                           |            |
| 3439             | NITRILES, TOXIC, SOLID, N.O.S.                  | 6.1      | T2                  | I             | 6.1       | 274 802            | LQ0                             | E5           |                    | PP, EP             |             |   | 2                           |            |
| 3439             | NITRILES, TOXIC, SOLID, N.O.S.                  | 6.1      | T2                  | II            | 6.1       | 274 802            | LQ18                            | E4           |                    | PP, EP             |             |   | 2                           |            |

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|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |  |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (10)  | 7.1.6 (11) |                             |         |
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 3439             | NITRILES, TOXIC, SOLID, N.O.S.                       | 6.1      | T2                  | III           | 6.1       | 274                | LQ9                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 3440             | SELENIUM COMPOUND, LIQUID, N.O.S.                    | 6.1      | T4                  | I             | 6.1       | 274                | LQ0                             | E5           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 3440             | SELENIUM COMPOUND, LIQUID, N.O.S.                    | 6.1      | T4                  | II            | 6.1       | 274                | LQ17                            | E4           |                    | PP, EP, TOX, A     | VE02        |   | 2          |                             |         |
| 3440             | SELENIUM COMPOUND, LIQUID, N.O.S.                    | 6.1      | T4                  | III           | 6.1       | 274                | LQ7                             | E1           |                    | PP, EP, TOX, A     | VE02        |   | 0          |                             |         |
| 3441             | CHLORODINITROBENZENES, SOLID                         | 6.1      | T2                  | II            | 6.1       | 279                | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 3442             | DICHLOROANILINES, SOLID                              | 6.1      | T2                  | II            | 6.1       | 279                | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 3443             | DINITROBENZENES, SOLID                               | 6.1      | T2                  | II            | 6.1       | 802                | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 3444             | NICOTINE HYDROCHLORIDE, SOLID                        | 6.1      | T2                  | II            | 6.1       | 43                 | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 3445             | NICOTINE SULPHATE, SOLID                             | 6.1      | T2                  | II            | 6.1       | 802                | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 3446             | NITROTOLUENES, SOLID                                 | 6.1      | T2                  | II            | 6.1       | 802                | LQ18                            | E4           | T                  | PP, EP             |             |   | 2          |                             |         |
| 3447             | NITROXYLENES, SOLID                                  | 6.1      | T2                  | II            | 6.1       | 802                | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 3448             | TEAR GAS SUBSTANCE, SOLID, N.O.S.                    | 6.1      | T2                  | I             | 6.1       | 274                | LQ0                             | E5           |                    | PP, EP             |             |   | 2          |                             |         |
| 3448             | TEAR GAS SUBSTANCE, SOLID, N.O.S.                    | 6.1      | T2                  | II            | 6.1       | 274                | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 3449             | BROMOBENZYL CYANIDES, SOLID                          | 6.1      | T2                  | I             | 6.1       | 138                | LQ0                             | E5           |                    | PP, EP             |             |   | 2          |                             |         |
| 3450             | DIPHENYLCHLOROARSINE, SOLID                          | 6.1      | T3                  | I             | 6.1       | 802                | LQ0                             | E5           |                    | PP, EP             |             |   | 2          |                             |         |
| 3451             | TOLUIDINES, SOLID                                    | 6.1      | T2                  | II            | 6.1       | 279                | LQ18                            | E4           | T                  | PP, EP             |             |   | 2          |                             |         |
| 3452             | XYLIDINES, SOLID                                     | 6.1      | T2                  | II            | 6.1       | 802                | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 3453             | PHOSPHORIC ACID, SOLID                               | 8        | C2                  | III           | 8         |                    | LQ24                            | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 3454             | DINITROTOLUENES, SOLID                               | 6.1      | T2                  | II            | 6.1       | 802                | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 3455             | CRESOLS, SOLID                                       | 6.1      | TC2                 | II            | 6.1+8     | 802                | LQ18                            | E4           | T                  | PP, EP             |             |   | 2          |                             |         |
| 3456             | NITROSYLSULPHURIC ACID, SOLID                        | 8        | C2                  | II            | 8         |                    | LQ23                            | E2           | T3                 | PP, EP             |             |   | 0          |                             |         |
| 3457             | CHLORONITROTOLUENES, SOLID                           | 6.1      | T2                  | III           | 6.1       | 802                | LQ9                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 3458             | NITROANISOL, SOLID                                   | 6.1      | T2                  | III           | 6.1       | 279                | LQ9                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 3459             | NITROBROMOBENZENES, SOLID                            | 6.1      | T2                  | III           | 6.1       | 802                | LQ9                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 3460             | N-ETHYLBENZYL TOLUIDINES, SOLID                      | 6.1      | T2                  | III           | 6.1       | 802                | LQ9                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 3462             | TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. | 6.1      | T2                  | I             | 6.1       | 210                | LQ0                             | E5           |                    | PP, EP             |             |   | 2          |                             |         |
| 3462             | TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. | 6.1      | T2                  | II            | 6.1       | 210                | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 3462             | TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. | 6.1      | T2                  | III           | 6.1       | 210                | LQ9                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 3462             | TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. | 6.1      | T2                  | III           | 6.1       | 274                | LQ9                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |



| UN No. or ID No. | Name and description  | Class    | Classification Code | Packing group | Labels    | Special provisions | Limited and excepted quantities |              | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage |            | Number of blue cones/lights | Remarks |
|------------------|---|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |   |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (11)  | 7.1.6 (12) |                             |         |
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 3463             | PROPIONIC ACID with not less than 90% acid by mass  | 8        | CF1                 | II            | 8+3       |                    | LQ22                            | E2           | T                  | PP, EP, EX, A      |             |   | 0          |                             |         |
| 3464             | ORGANOPHOSPHORUS COMPOUND, TOXIC, SOLID, N.O.S.   | 6.1      | T2                  | I             | 6.1       | 43<br>274<br>802   | LQ0                             | E5           |                    | PP, EP             |             |   | 2          |                             |         |
| 3464             | ORGANOPHOSPHORUS COMPOUND, TOXIC, SOLID, N.O.S.   | 6.1      | T2                  | II            | 6.1       | 43<br>274<br>802   | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 3464             | ORGANOPHOSPHORUS COMPOUND, TOXIC, SOLID, N.O.S.   | 6.1      | T2                  | III           | 6.1       | 43<br>274<br>802   | LQ9                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 3465             | ORGANOARSENIC COMPOUND, SOLID, N.O.S.   | 6.1      | T3                  | I             | 6.1       | 274<br>802         | LQ0                             | E5           |                    | PP, EP             |             |   | 2          |                             |         |
| 3465             | ORGANOARSENIC COMPOUND, SOLID, N.O.S.   | 6.1      | T3                  | II            | 6.1       | 274<br>802         | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 3465             | ORGANOARSENIC COMPOUND, SOLID, N.O.S.   | 6.1      | T3                  | III           | 6.1       | 274<br>802         | LQ9                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 3466             | METAL CARBONYLS, SOLID, N.O.S.  | 6.1      | T3                  | I             | 6.1       | 274<br>562<br>802  | LQ0                             | E5           |                    | PP, EP             |             |   | 2          |                             |         |
| 3466             | METAL CARBONYLS, SOLID, N.O.S.  | 6.1      | T3                  | II            | 6.1       | 274<br>562<br>802  | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 3466             | METAL CARBONYLS, SOLID, N.O.S.  | 6.1      | T3                  | III           | 6.1       | 274<br>562<br>802  | LQ9                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 3467             | ORGANOMETALLIC COMPOUND, TOXIC, SOLID, N.O.S.   | 6.1      | T3                  | I             | 6.1       | 274<br>562<br>802  | LQ0                             | E5           |                    | PP, EP             |             |   | 2          |                             |         |
| 3467             | ORGANOMETALLIC COMPOUND, TOXIC, SOLID, N.O.S.   | 6.1      | T3                  | II            | 6.1       | 274<br>562<br>802  | LQ18                            | E4           |                    | PP, EP             |             |   | 2          |                             |         |
| 3467             | ORGANOMETALLIC COMPOUND, TOXIC, SOLID, N.O.S.   | 6.1      | T3                  | III           | 6.1       | 274<br>562<br>802  | LQ9                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 3468             | HYDROGEN IN A METAL HYDRIDE STORAGE SYSTEM or HYDROGEN IN A METAL HYDRIDE STORAGE SYSTEM CONTAINED IN EQUIPMENT or HYDROGEN IN A METAL HYDRIDE STORAGE SYSTEM PACKED WITH EQUIPMENT | 2        | 2F                  |               | 2.1       | 321                | LQ0                             | E0           | T                  | PP, EX, A          | VE01        |   | 1          |                             |         |

| UN No. or ID No. | Name and description   | Class    | Classification Code | Packing group | Labels    | Special provisions | Limited and excepted quantities |              | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage |            | Number of blue cones/lights | Remarks |
|------------------|--|----------|---------------------|---------------|-----------|--------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|-----------------------------|---------|
|                  |  |          |                     |               |           |                    | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (11)  | 7.1.6 (12) |                             |         |
| (1)              | 3.1.2 (2)  | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)            | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                  |         |
| 3469             | PAINT, FLAMMABLE, CORROSIVE (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE (including paint thinning or reducing compound) | 3        | FC                  | I             | 3+8       | 163                | LQ3                             | E0           |                    | PP, EX, A          | VE01        |   | 1          |                             |         |
| 3469             | PAINT, FLAMMABLE, CORROSIVE (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE (including paint thinning or reducing compound) | 3        | FC                  | II            | 3+8       | 163                | LQ4                             | E2           |                    | PP, EX, A          | VE01        |   | 1          |                             |         |
| 3469             | PAINT, FLAMMABLE, CORROSIVE (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE (including paint thinning or reducing compound) | 3        | FC                  | III           | 3+8       | 163                | LQ7                             | E1           |                    | PP, EX, A          | VE01        |   | 0          |                             |         |
| 3470             | PAINT, CORROSIVE, FLAMMABLE (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL CORROSIVE, FLAMMABLE (including paint thinning or reducing compound)  | 8        | CF1                 | II            | 8+3       | 163                | LQ22                            | E2           |                    | PP, EP, EX, A      | VE01        |   | 0          |                             |         |
| 3471             | HYDROGENDIFLUORIDES SOLUTION, N.O.S.   | 8        | CT1                 | II            | 8+6.1     |                    | LQ22                            | E2           |                    | PP, EP             |             |   | 0          |                             |         |
| 3471             | HYDROGENDIFLUORIDES SOLUTION, N.O.S.   | 8        | CT1                 | III           | 8+6.1     |                    | LQ7                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 3472             | CROTONIC ACID, LIQUID  | 8        | C3                  | III           | 8         |                    | LQ7                             | E1           |                    | PP, EP             |             |   | 0          |                             |         |
| 3473             | FUEL CELL CARTRIDGES or FUEL CELL CARTRIDGES CONTAINED IN EQUIPMENT or FUEL CELL CARTRIDGES PACKED WITH EQUIPMENT containing flammable liquids   | 3        | F1                  |               | 3         | 328                | LQ13                            | E0           |                    |                    |             |   |            |                             |         |
| 3474             | 1-HYDROXYBENZOTRIAZOLE, ANHYDROUS, WETTED with not less than 20% water, by mass  | 4.1      | D                   | I             | 4.1       |                    | LQ0                             | E0           |                    | PP                 |             |   | 1          |                             |         |
| 3475             | ETHANOL AND GASOLINE MIXTURE or ETHANOL AND MOTOR SPIRIT MIXTURE or ETHANOL AND PETROL MIXTURE, with more than 10% ethanol   | 3        | F1                  | II            | 3         | 333                | LQ4                             | E2           | T                  | PP, EX, A          | VE01        |   | 1          |                             |         |

| UN No. or ID No. | Name and description  | Class    | Classification Code | Packing group | Labels    | Special provisions       | Limited and excepted quantities |              | Carriage permitted | Equipment required | Ventilation | Provisions concerning loading, unloading and carriage |            | Number of blue cones/lights                 | Remarks |
|------------------|---|----------|---------------------|---------------|-----------|--------------------------|---------------------------------|--------------|--------------------|--------------------|-------------|---|------------|---|---------|
|                  |   |          |                     |               |           |                          | 3.4.6 (7a)                      | 3.5.1.2 (7b) |                    |                    |             | 7.1.6 (11)  | 7.1.6 (12) |   |         |
| (1)              | 3.1.2 (2)   | 2.2 (3a) | 2.2 (3b)            | 2.1.1.3 (4)   | 5.2.2 (5) | 3.3 (6)                  | 3.4.6 (7a)                      | 3.5.1.2 (7b) | 3.2.1 (8)          | 8.1.5 (9)          | 7.1.6 (10)  | 7.1.6 (11)  | 7.1.5 (12) | 3.2.1 (13)                                  |         |
| 3476             | FUEL CELL CARTRIDGES or FUEL CELL CARTRIDGES CONTAINED IN EQUIPMENT or FUEL CELL CARTRIDGES PACKED WITH EQUIPMENT, containing water-reactive substances | 4.3      | W3                  |               | 4.3       | 328<br>334               | LQ10<br>LQ11                    | E0           |                    | PP,EX, A           | VE01        | HA08  | 0          |   |         |
| 3477             | FUEL CELL CARTRIDGES or FUEL CELL CARTRIDGES CONTAINED IN EQUIPMENT or FUEL CELL CARTRIDGES PACKED WITH EQUIPMENT, containing corrosive substances      | 8        | C11                 |               | 8         | 328<br>334               | LQ12<br>LQ13                    | E0           |                    | PP,EX, A           |             |   | 0          |   |         |
| 3478             | FUEL CELL CARTRIDGES or FUEL CELL CARTRIDGES CONTAINED IN EQUIPMENT or FUEL CELL CARTRIDGES PACKED WITH EQUIPMENT, containing liquefied flammable gases | 2        | 6F                  |               | 2.1       | 328<br>338               | LQ1                             | E0           |                    | PP,EX, A           | VE01        |   |            |   |         |
| 3479             | FUEL CELL CARTRIDGES or FUEL CELL CARTRIDGES CONTAINED IN EQUIPMENT or FUEL CELL CARTRIDGES PACKED WITH EQUIPMENT, containing hydrogen in metal hydride | 2        | 6F                  |               | 2.1       | 328<br>339               | LQ1                             | E0           |                    | PP,EX, A           | VE01        |   | 1          |   |         |
| 3480             | LITHIUM ION BATTERIES (including lithium ion polymer batteries)   | 9        | M4                  | II            | 9         | 188<br>230<br>310<br>636 | LQ0                             | E0           |                    | PP                 |             |   | 0          |   |         |
| 3481             | LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT or LITHIUM ION BATTERIES PACKED WITH EQUIPMENT (including lithium ion polymer batteries)                   | 9        | M4                  | II            | 9         | 188<br>230<br>636        | LQ0                             | E0           |                    | PP                 |             |   | 0          |   |         |
| 9000             | AMMONIA, DEEPLY REFRIGERATED  | 2        | 3TC                 |               | 2.3+8     |                          |                                 |              | T                  | PP                 |             |   | 2          | Admitted only for carriage in tank vessels  |         |
| 9001             | SUBSTANCES WITH A FLASH-POINT ABOVE 60 °C which are carried heated within a limiting range of 15K below their flash-point                               | 3        | F3                  |               | none      |                          |                                 |              | T                  | PP                 |             |   | 0          | Dangerous only when carried in tank vessels |         |
| 9002             | SUBSTANCES WITH A SELF-IGNITION TEMPERATURE OF 200 °C AND BELOW, n.o.s.   | 3        | F4                  |               | none      |                          |                                 |              | T                  | PP                 |             |   | 0          | Dangerous only when carried in tank vessels |         |
| 9003             | SUBSTANCES WITH A FLASH-POINT ABOVE 60 °C AND NOT MORE THAN 100 °C, which do not belong to another Class  | 9        |                     |               | none      |                          |                                 |              | T                  | PP                 |             |   | 0          | Dangerous only when carried in tank vessels |         |
| 9004             | DIPHENYLMETHANE-4, 4'-DIISOCYANATE  | 9        |                     |               | none      |                          |                                 |              | T                  | PP                 |             |   | 0          | Dangerous only when carried in tank vessels |         |
| 9005             | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., MOLTEN  | 9        |                     |               | none      |                          |                                 |              | T                  | PP                 |             |   | 0          | Dangerous only when carried in tank vessels |         |

| UN No. or ID No. | Name and description                                | Class       | Classification Code | Packing group  | Labels       | Special provisions | Limited and excepted quantities | Carriage permitted | Equipment required | Ventilation   | Provisions concerning loading, unloading and carriage | Number of blue cones/lights | Remarks                                     |
|------------------|---|-------------|---------------------|----------------|--------------|--------------------|---------------------------------|--------------------|--------------------|---------------|---|-----------------------------|---|
| (1)              | 3.1.2<br>(2)  | 2.2<br>(3a) | 2.2<br>(3b)         | 2.1.1.3<br>(4) | 5.2.2<br>(5) | 3.3<br>(6)         | 3.4.6<br>(7a)   3.5.1.2<br>(7b) | 3.2.1<br>(8)       | 8.1.5<br>(9)       | 7.1.6<br>(10) | 7.1.6<br>(11)   | 7.1.5<br>(12)               | 3.2.1<br>(13)                               |
| 9006             | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | 9           |                     |                | none         |                    |                                 | T                  | PP                 |               |   | 0                           | Dangerous only when carried in tank vessels |

### 3.2.2 **Table B: List of dangerous goods in alphabetical order**

The following Table B is an alphabetical list of the substances and articles which are listed in the UN numerical order in Table A of 3.2.1. It does not form an integral part of ADN. It has been prepared, with all necessary care by the Secretariat of the United Nations Economic Commission for Europe, in order to facilitate the consultation of Annexes A and B, but it cannot be relied upon as a substitute for the careful study and observance of the actual provisions of those annexed Regulations which, in case of conflict, are deemed to be authoritative.

**NOTE 1:** *For the purpose of determining the alphabetical order the following information has been ignored, even when it forms part of the proper shipping name: numbers; Greek letters; the abbreviations "sec" and "tert"; and the letters "N" (nitrogen), "n" (normal), "o" (ortho) "m" (meta), "p" (para) and "N.O.S." (not otherwise specified).*

**NOTE 2:** *The name of a substance or article in block capital letters indicates a proper shipping name (see 3.1.2).*

**NOTE 3:** *The name of a substance or article in block capital letters followed by the word "see" indicates an alternative proper shipping name or part of a proper shipping name (except for PCBs) (see 3.1.2.1).*

**NOTE 4:** *An entry in lower case letters followed by the word "see" indicates that the entry is not a proper shipping name; it is a synonym.*

**NOTE 5:** *Where an entry is partly in block capital letters and partly in lower case letters, the latter part is considered not to be part of the proper shipping name (see 3.1.2.1).*

**NOTE 6:** *A proper shipping name may be used in the singular or plural, as appropriate, for the purposes of documentation and package marking (see 3.1.2.3).*

**NOTE 7:** *For the exact determination of a proper shipping name, see 3.1.2.*

| Name and description  | UN No. | Class | Remarks | Name and description   | UN No. | Class | Remarks |
|---|--------|-------|---------|--|--------|-------|---------|
| Accumulators, electric, see   | 2794   | 8     |         | ACROLEIN DIMER, STABILIZED   | 2607   | 3     |         |
|   | 2795   | 8     |         |  |        |       |         |
|   | 2800   | 8     |         | ACROLEIN, STABILIZED   | 1092   | 6.1   |         |
|   | 3028   | 8     |         |  |        |       |         |
|   | 3292   | 4.3   |         | ACRYLAMIDE, SOLID  | 2074   | 6.1   |         |
| ACETAL  | 1088   | 3     |         | ACRYLAMIDE, SOLUTION   | 3426   | 6.1   |         |
| ACETALDEHYDE  | 1089   | 3     |         | ACRYLIC ACID, STABILIZED   | 2218   | 8     |         |
| ACETALDEHYDE AMMONIA  | 1841   | 9     |         | ACRYLONITRILE, STABILIZED  | 1093   | 3     |         |
| ACETALDEHYDE OXIME  | 2332   | 3     |         | Actinolite, see  | 2590   | 9     |         |
| ACETIC ACID, GLACIAL  | 2789   | 8     |         | Activated carbon, see  | 1362   | 4.2   |         |
| ACETIC ACID SOLUTION, more than 10% but not more than 80% acid, by mass | 2790   | 8     |         | Activated charcoal, see  | 1362   | 4.2   |         |
| ACETIC ACID SOLUTION, more than 80% acid, by mass                       | 2789   | 8     |         | ADHESIVES containing flammable liquid  | 1133   | 3     |         |
| ACETIC ANHYDRIDE  | 1715   | 8     |         | ADIPONITRILE   | 2205   | 6.1   |         |
| Acetoin, see  | 2621   | 3     |         | Aeroplane flares, see  | 0093   | 1     |         |
| ACETONE   | 1090   | 3     |         |  | 0403   | 1     |         |
| ACETONE CYANOHYDRIN, STABILIZED   | 1541   | 6.1   |         |  | 0404   | 1     |         |
| ACETONE OILS  | 1091   | 3     |         | AEROSOLS   | 1950   | 2     |         |
| ACETONITRILE  | 1648   | 3     |         | AGENT, BLASTING, TYPE B  | 0331   | 1     |         |
| ACETYL BROMIDE  | 1716   | 8     |         | AGENT, BLASTING, TYPE E  | 0332   | 1     |         |
| ACETYL CHLORIDE   | 1717   | 3     |         | AIR BAG INFLATORS  | 0503   | 1     |         |
| ACETYLENE, DISSOLVED  | 1001   | 2     |         |  | 3268   | 9     |         |
| ACETYLENE, SOLVENT FREE   | 3374   | 2     |         | AIR BAG MODULES  | 0503   | 1     |         |
| Acetylene tetrabromide, see   | 2504   | 6.1   |         |  | 3268   | 9     |         |
| Acetylene tetrachloride, see  | 1702   | 6.1   |         | AIR, COMPRESSED  | 1002   | 2     |         |
| ACETYL IODIDE   | 1898   | 8     |         | Aircraft evacuation slides, see  | 2990   | 9     |         |
| ACETYL METHYL CARBINOL  | 2621   | 3     |         | AIRCRAFT HYDRAULIC POWER UNIT FUEL TANK (containing a mixture of anhydrous hydrazine and methylhydrazine) (M86 fuel) | 3165   | 3     |         |
| Acid butyl phosphate, see   | 1718   | 8     |         | Aircraft survival kits, see  | 2990   | 9     |         |
| Acid mixture, hydrofluoric and sulphuric, see                           | 1786   | 8     |         | AIR, REFRIGERATED LIQUID   | 1003   | 2     |         |
| Acid mixture, nitrating acid, see                                       | 1796   | 8     |         | ALCOHOLATES SOLUTION, N.O.S., in alcohol   | 3274   | 3     |         |
| Acid mixture, spent, nitrating acid, see                                | 1826   | 8     |         | Alcohol, denaturated, see  | 1986   | 3     |         |
| Acraldehyde, inhibited, see   | 1092   | 6.1   |         |  | 1987   | 3     |         |
| ACRIDINE  | 2713   | 6.1   |         | Alcohol, industrial, see   | 1986   | 3     |         |
|   |        |       |         |  | 1987   | 3     |         |
|   |        |       |         | ALCOHOLS, N.O.S.   | 1987   | 3     |         |

| Name and description  | UN No. | Class | Remarks | Name and description  | UN No. | Class | Remarks |
|---|--------|-------|---------|---|--------|-------|---------|
| ALCOHOLS, FLAMMABLE, TOXIC, N.O.S.  | 1986   | 3     |         | ALKYLPHENOLS, LIQUID, N.O.S. (including C <sub>2</sub> -C <sub>12</sub> homologues) | 3145   | 8     |         |
| ALCOHOLIC BEVERAGES, with more than 24% but not more than 70% alcohol by volume | 3065   | 3     |         | ALKYLPHENOLS, SOLID, N.O.S. (including C <sub>2</sub> -C <sub>12</sub> homologues)  | 2430   | 8     |         |
| ALCOHOLIC BEVERAGES, with more than 70% alcohol by volume                       | 3065   | 3     |         | ALKYLSULPHONIC ACIDS, LIQUID with more than 5% free sulphuric acid                  | 2584   | 8     |         |
| Aldehyde, see   | 1989   | 3     |         | ALKYLSULPHONIC ACIDS, LIQUID with not more than 5% free sulphuric acid              | 2586   | 8     |         |
| ALDEHYDES, N.O.S.   | 1989   | 3     |         |   |        |       |         |
| ALDEHYDES, FLAMMABLE, TOXIC, N.O.S.   | 1988   | 3     |         | ALKYLSULPHONIC ACIDS, SOLID with more than 5% free sulphuric acid                   | 2583   | 8     |         |
| ALDOL   | 2839   | 6.1   |         |   |        |       |         |
| ALKALI METAL ALCOHOLATES, SELF-HEATING, CORROSIVE, N.O.S.                       | 3206   | 4.2   |         | ALKYLSULPHONIC ACIDS, SOLID with not more than 5% free sulphuric acid               | 2585   | 8     |         |
| ALKALI METAL ALLOY, LIQUID, N.O.S.  | 1421   | 4.3   |         | ALKYLSULPHURIC ACIDS  | 2571   | 8     |         |
| ALKALI METAL AMALGAM, LIQUID  | 1389   | 4.3   |         | Allene, see   | 2200   | 2     |         |
| ALKALI METAL AMALGAM, SOLID   | 3401   | 4.3   |         | ALLYL ACETATE   | 2333   | 3     |         |
| ALKALI METAL AMIDES   | 1390   | 4.3   |         | ALLYL ALCOHOL   | 1098   | 6.1   |         |
| ALKALI METAL DISPERSION   | 1391   | 4.3   |         | ALLYLAMINE  | 2334   | 6.1   |         |
| Alkaline corrosive battery fluid, see   | 2797   | 8     |         | ALLYL BROMIDE   | 1099   | 3     |         |
| ALKALINE EARTH METAL ALCOHOLATES, N.O.S.  | 3205   | 4.2   |         | ALLYL CHLORIDE  | 1100   | 3     |         |
| ALKALINE EARTH METAL ALLOY, N.O.S.  | 1393   | 4.3   |         | Allyl chlorocarbonate, see  | 1722   | 6.1   |         |
| ALKALINE EARTH METAL AMALGAM, LIQUID  | 1392   | 4.3   |         | ALLYL CHLOROFORMATE   | 1722   | 6.1   |         |
| ALKALINE EARTH METAL AMALGAM, SOLID   | 3402   | 4.3   |         | ALLYL ETHYL ETHER   | 2335   | 3     |         |
| ALKALINE EARTH METAL DISPERSION   | 1391   | 4.3   |         | ALLYL FORMATE   | 2336   | 3     |         |
| ALKALOIDS, LIQUID, N.O.S.   | 3140   | 6.1   |         | ALLYL GLYCIDYL ETHER  | 2219   | 3     |         |
| ALKALOIDS, SOLID, N.O.S.  | 1544   | 6.1   |         | ALLYL IODIDE  | 1723   | 3     |         |
| ALKALOID SALTS, LIQUID, N.O.S.  | 3140   | 6.1   |         | ALLYL ISOTHIOCYANATE, STABILIZED  | 1545   | 6.1   |         |
| ALKALOID SALTS, SOLID, N.O.S.   | 1544   | 6.1   |         | ALLYLTRICHLOROSILANE, STABILIZED  | 1724   | 8     |         |
| Alkyl aluminium halides, see  | 3394   | 4.2   |         | Aluminium alkyls, see   | 3394   | 4.2   |         |
|   |        |       |         | Aluminium alkyl halides, liquid, see  | 3394   | 4.2   |         |
|   |        |       |         | Aluminium alkyl halides, solid, see   | 3393   | 4.2   |         |
|   |        |       |         | Aluminium alkyl hydrides, see   | 3394   | 4.2   |         |
|   |        |       |         | ALUMINIUM BOROHYDRIDE   | 2870   | 4.2   |         |
|   |        |       |         | ALUMINIUM BOROHYDRIDE IN DEVICES  | 2870   | 4.2   |         |
|   |        |       |         | ALUMINIUM BROMIDE, ANHYDROUS  | 1725   | 8     |         |

| Name and description                         | UN No. | Class | Remarks | Name and description  | UN No. | Class | Remarks                                   |
|--|--------|-------|---------|---|--------|-------|---|
| ALUMINIUM BROMIDE SOLUTION                   | 2580   | 8     |         | 2-AMINO-5-DIETHYLAMINOPENTANE   | 2946   | 6.1   |   |
| ALUMINIUM CARBIDE                            | 1394   | 4.3   |         | 2-AMINO-4,6-DINITROPHENOL, WETTED with not less than 20% water, by mass   | 3317   | 4.1   |   |
| ALUMINIUM CHLORIDE, ANHYDROUS                | 1726   | 8     |         | 2-(2-AMINOETHOXY) ETHANOL   | 3055   | 8     |   |
| ALUMINIUM CHLORIDE SOLUTION                  | 2581   | 8     |         | N-AMINOETHYLPIPERAZINE  | 2815   | 8     |   |
| Aluminium dross, see                         | 3170   | 4.3   |         | 1-Amino-2-nitrobenzene, see   | 1661   | 6.1   |   |
| ALUMINIUM FERROSILICON POWDER                | 1395   | 4.3   |         | 1-Amino-3-nitrobenzene, see   | 1661   | 6.1   |   |
| ALUMINIUM HYDRIDE                            | 2463   | 4.3   |         | 1-Amino-4-nitrobenzene, see   | 1661   | 6.1   |   |
| ALUMINIUM NITRATE                            | 1438   | 5.1   |         | AMINOPHENOLS (o-, m-, p-)   | 2512   | 6.1   |   |
| ALUMINIUM PHOSPHIDE                          | 1397   | 4.3   |         | AMINOPYRIDINES (o-, m-, p-)   | 2671   | 6.1   |   |
| ALUMINIUM PHOSPHIDE PESTICIDE                | 3048   | 6.1   |         | AMMONIA, ANHYDROUS  | 1005   | 2     |   |
| ALUMINIUM POWDER, COATED                     | 1309   | 4.1   |         | AMMONIA, DEEPLY REFRIGERATED  | 9000   | 2     | Admitted only for carriage in tank vessel |
| ALUMINIUM POWDER, UNCOATED                   | 1396   | 4.3   |         | AMMONIA SOLUTION relative density between 0.880 and 0.957 at 15 °C in water, with more than 10% but not more than 35% ammonia | 2672   | 8     |   |
| ALUMINIUM REMELTING BY-PRODUCTS              | 3170   | 4.3   |         | AMMONIA SOLUTION, relative density less than 0.880 at 15 °C in water, with more than 35% but not more than 50% ammonia        | 2073   | 2     |   |
| ALUMINIUM RESINATE                           | 2715   | 4.1   |         | AMMONIA SOLUTION, relative density less than 0.880 at 15 °C in water, with more than 50% ammonia                              | 3318   | 2     |   |
| ALUMINIUM SILICON POWDER, UNCOATED           | 1398   | 4.3   |         | AMMONIUM ARSENATE   | 1546   | 6.1   |   |
| ALUMINIUM SMELTING BY-PRODUCTS               | 3170   | 4.3   |         | Ammonium bichromate, see  | 1439   | 5.1   |   |
| Amatols, see                                 | 0082   | 1     |         | Ammonium bifluoride solid, see  | 1727   | 8     |   |
| AMINES, FLAMMABLE, CORROSIVE, N.O.S.         | 2733   | 3     |         | Ammonium bifluoride solution, see   | 2817   | 8     |   |
| AMINES, LIQUID, CORROSIVE, N.O.S.            | 2735   | 8     |         | Ammonium bisulphate, see  | 2506   | 8     |   |
| AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. | 2734   | 8     |         | Ammonium bisulphite solution, see   | 2693   | 8     |   |
| AMINES, SOLID, CORROSIVE, N.O.S.             | 3259   | 8     |         | AMMONIUM DICHROMATE   | 1439   | 5.1   |   |
| Aminobenzene, see                            | 1547   | 6.1   |         | AMMONIUM DINITRO-o-CRESOLATE, SOLID   | 1843   | 6.1   |   |
| 2-Aminobenzotrifluoruride, see               | 2942   | 6.1   |         | AMMONIUM DINITRO-o-CRESOLATE, SOLUTION  | 3424   | 6.1   |   |
| 3-Aminobenzotrifluoruride, see               | 2948   | 6.1   |         | AMMONIUM FLUORIDE   | 2505   | 6.1   |   |
| Aminobutane, see                             | 1125   | 3     |         |   |        |       |   |
| 2-AMINO-4-CHLOROPHENOL                       | 2673   | 6.1   |         |   |        |       |   |



| Name and description  | UN No. | Class | Remarks | Name and description  | UN No. | Class | Remarks |
|---|--------|-------|---------|---|--------|-------|---------|
| AMMONIUM FLUOROSILICATE   | 2854   | 6.1   |         | AMMONIUM NITRATE GEL, intermediate for blasting explosives, solid   | 3375   | 5.1   |         |
| Ammonium hexafluorosilicate, see  | 2854   | 6.1   |         |   |        |       |         |
| AMMONIUM HYDROGENDIFLUORIDE, SOLID  | 1727   | 8     |         | AMMONIUM NITRATE, LIQUID hot concentrated solution, in a concentration of more than 80% but not more than 93% | 2426   | 5.1   |         |
| AMMONIUM HYDROGENDIFLUORIDE SOLUTION  | 2817   | 8     |         | AMMONIUM NITRATE SUSPENSION, intermediate for blasting explosives, liquid                                     | 3375   | 5.1   |         |
| AMMONIUM HYDROGEN SULPHATE  | 2506   | 8     |         | AMMONIUM NITRATE SUSPENSION, intermediate for blasting explosives, solid                                      | 3375   | 5.1   |         |
| Ammonium hydrosulphide solution (treat as ammonium sulphide solution), see  | 2683   | 8     |         | AMMONIUM PERCHLORATE  | 0402   | 1     |         |
| AMMONIUM METAVANADATE   | 2859   | 6.1   |         | 1442  | 5.1    |       |         |
| AMMONIUM NITRATE with more than 0.2% combustible substances, including any organic substance calculated as carbon, to the exclusion of any other added substance  | 0222   | 1     |         | Ammonium permanganate, see  | 1482   | 5.1   |         |
| AMMONIUM NITRATE with not more than 0.2% total combustible material, including any organic substance calculated as carbon, to the exclusion of any other added substance  | 1942   | 5.1   |         | AMMONIUM PERSULPHATE  | 1444   | 5.1   |         |
| AMMONIUM NITRATE EMULSION, intermediate for blasting explosives, liquid   | 3375   | 5.1   |         | AMMONIUM PICRATE dry or wetted with less than 10% water, by mass  | 0004   | 1     |         |
| AMMONIUM NITRATE EMULSION, intermediate for blasting explosives, solid  | 3375   | 5.1   |         | AMMONIUM PICRATE, WETTED with not less than 10% water, by mass  | 1310   | 4.1   |         |
| Ammonium nitrate explosive, see   | 0082   | 1     |         | AMMONIUM POLYSULPHIDE SOLUTION  | 2818   | 8     |         |
|   | 0331   | 1     |         | AMMONIUM POLYVANADATE   | 2861   | 6.1   |         |
| AMMONIUM NITRATE BASED FERTILIZER   | 2067   | 5.1   |         | Ammonium silicofluoride, see  | 2854   | 6.1   |         |
| AMMONIUM NITRATE BASED FERTILIZER, uniform mixtures of the nitrogen/phosphate, nitrogen/potash or nitrogen/phosphate/potash type, containing not more than 70% ammonium nitrate and not more than 0.4% total combustible/organic material calculated as carbon or with not more than 45% ammonium nitrate and unrestricted combustible material | 2071   | 9     |         | AMMONIUM SULPHIDE SOLUTION  | 2683   | 8     |         |
|   |        |       |         | Ammunition, blank, see  | 0014   | 1     |         |
|   |        |       |         |   | 0326   | 1     |         |
|   |        |       |         |   | 0327   | 1     |         |
|   |        |       |         |   | 0338   | 1     |         |
|   |        |       |         |   | 0413   | 1     |         |
|   |        |       |         | Ammunition, fixed   | 0005   | 1     |         |
|   |        |       |         | Ammunition, semi-fixed  | 0006   | 1     |         |
|   |        |       |         | Ammunition, separate loading, see   | 0007   | 1     |         |
|   |        |       |         |   | 0321   | 1     |         |
|   |        |       |         |   | 0348   | 1     |         |
|   |        |       |         |   | 0412   | 1     |         |
|   |        |       |         | AMMUNITION, ILLUMINATING with or without burster, expelling charge or propelling charge                       | 0171   | 1     |         |
|   |        |       |         |   | 0254   | 1     |         |
|   |        |       |         |   | 0297   | 1     |         |
| AMMONIUM NITRATE GEL, intermediate for blasting explosives, liquid  | 3375   | 5.1   |         | AMMUNITION, INCENDIARY, liquid or gel, with burster, expelling charge or propelling charge                    | 0247   | 1     |         |

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|---|--|----------------------------|---------|---|--------------|--------|---------------------|
| AMMUNITION, INCENDIARY with or without burster, expelling charge or propelling charge   | 0009<br>0010<br>0300                         | 1<br>1<br>1                |         | AMMUNITION, TOXIC with burster, expelling charge or propelling charge                                     | 0020         | 1      | Carriage prohibited |
| Ammunition, incendiary (water-activated contrivances) with burster, expelling charge or propelling charge, see                                    | 0248<br>0249                                 | 1<br>1                     |         | AMMUNITION, TOXIC with burster, expelling charge or propelling charge                                     | 0021         | 1      | Carriage prohibited |
| AMMUNITION, INCENDIARY, WHITE PHOSPHORUS with burster, expelling charge or propelling charge  | 0243<br>0244                                 | 1<br>1                     |         | Ammunition, toxic (water-activated contrivances) with burster, expelling charge or propelling charge, see | 0248<br>0249 | 1<br>1 |                     |
| Ammunition, industrial, see   | 0275<br>0276<br>0277<br>0278<br>0323<br>0381 | 1<br>1<br>1<br>1<br>1<br>1 |         | AMMUNITION, TOXIC, NON-EXPLOSIVE without burster or expelling charge, non-fuzed                           | 2016         | 6.1    |                     |
| Ammunition, lachrymatory, see   | 0018<br>0019<br>0301<br>2017                 | 1<br>1<br>1<br>1           |         | Amosite, see  | 2212         | 9      |                     |
| AMMUNITION, PRACTICE  | 0362<br>0488                                 | 1<br>1                     |         | AMYL ACETATES   | 1104         | 3      |                     |
| AMMUNITION, PROOF   | 0363   | 1                          |         | AMYL ACID PHOSPHATE   | 2819         | 8      |                     |
| AMMUNITION, SMOKE with or without burster, expelling charge or propelling charge  | 0015<br>0016<br>0303                         | 1<br>1<br>1                |         | Amyl aldehyde, see  | 2058         | 3      |                     |
| Ammunition, smoke (water-activated contrivances), white phosphorus with burster, expelling charge or propelling charge, see                       | 0248   | 1                          |         | AMYLAMINE   | 1106         | 3      |                     |
| Ammunition, smoke (water-activated contrivances), without white phosphorus or phosphides with burster, expelling charge or propelling charge, see | 0249   | 1                          |         | n-Amylamine, see  | 1106         | 3      |                     |
| AMMUNITION, SMOKE, WHITE PHOSPHORUS with burster, expelling charge or propelling charge   | 0245<br>0246                                 | 1<br>1                     |         | AMYL BUTYRATES  | 2620         | 3      |                     |
| Ammunition, sporting, see   | 0012<br>0328<br>0339<br>0417                 | 1<br>1<br>1<br>1           |         | AMYL CHLORIDE   | 1107         | 3      |                     |
| AMMUNITION, TEAR-PRODUCING, NON-EXPLOSIVE without burster or expelling charge, non-fuzed  | 2017   | 6.1                        |         | n-AMYLENE, see  | 1108         | 3      |                     |
| AMMUNITION, TEAR-PRODUCING with burster, expelling charge or propelling charge  | 0018<br>0019<br>0301                         | 1<br>1<br>1                |         | AMYL FORMATES   | 1109         | 3      |                     |
|   |  |                            |         | AMYL MERCAPTAN  | 1111         | 3      |                     |
|   |  |                            |         | n-AMYL METHYL KETONE  | 1110         | 3      |                     |
|   |  |                            |         | AMYL NITRATE  | 1112         | 3      |                     |
|   |  |                            |         | AMYL NITRITE  | 1113         | 3      |                     |
|   |  |                            |         | AMYLTRICHLOROSILANE   | 1728         | 8      |                     |
|   |  |                            |         | Anaesthetic ether, see  | 1155         | 3      |                     |
|   |  |                            |         | ANILINE   | 1547         | 6.1    |                     |
|   |  |                            |         | Aniline chloride, see   | 1548         | 6.1    |                     |
|   |  |                            |         | ANILINE HYDROCHLORIDE   | 1548         | 6.1    |                     |
|   |  |                            |         | Aniline oil, see  | 1547         | 6.1    |                     |
|   |  |                            |         | Aniline salt, see   | 1548         | 6.1    |                     |
|   |  |                            |         | ANISIDINES  | 2431         | 6.1    |                     |
|   |  |                            |         | ANISOLE   | 2222         | 3      |                     |
|   |  |                            |         | ANISOYL CHLORIDE  | 1729         | 8      |                     |
|   |  |                            |         | Anthophyllite, see  | 2590         | 9      |                     |

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|--|--------|-------|---------|---|--------|-------|---------|
| Antimonous chloride, see   | 1733   | 8     |         | ARSENIC BROMIDE   | 1555   | 6.1   |         |
| ANTIMONY COMPOUND, INORGANIC, LIQUID, N.O.S.                                   | 3141   | 6.1   |         | Arsenic (III) bromide, see  | 1555   | 6.1   |         |
| ANTIMONY COMPOUND, INORGANIC, SOLID, N.O.S.                                    | 1549   | 6.1   |         | Arsenic chloride, see   | 1560   | 6.1   |         |
| Antimony hydride, see  | 2676   | 2     |         | ARSENIC COMPOUND, LIQUID, N.O.S., inorganic, including: Arsenates, n.o.s., Arsenites, n.o.s.; and Arsenic sulphides, n.o.s. | 1556   | 6.1   |         |
| ANTIMONY LACTATE   | 1550   | 6.1   |         | ARSENIC COMPOUND, SOLID, N.O.S., inorganic, including: Arsenates, n.o.s.; Arsenites, n.o.s.; and Arsenic sulphides, n.o.s.  | 1557   | 6.1   |         |
| Antimony (III) lactate, see  | 1550   | 6.1   |         |   |        |       |         |
| ANTIMONY PENTACHLORIDE, LIQUID   | 1730   | 8     |         | Arsenic (III) oxide, see  | 1561   | 6.1   |         |
| ANTIMONY PENTACHLORIDE SOLUTION  | 1731   | 8     |         | Arsenic (V) oxide, see  | 1559   | 6.1   |         |
| ANTIMONY PENTAFLUORIDE   | 1732   | 8     |         | ARSENIC PENTOXIDE   | 1559   | 6.1   |         |
| Antimony perchloride, liquid, see  | 1730   | 8     |         | Arsenic sulphides, see  | 1556   | 6.1   |         |
| ANTIMONY POTASSIUM TARTRATE  | 1551   | 6.1   |         |   | 1557   | 6.1   |         |
| ANTIMONY POWDER  | 2871   | 6.1   |         | ARSENIC TRICHLORIDE   | 1560   | 6.1   |         |
| ANTIMONY TRICHLORIDE   | 1733   | 8     |         | ARSENIC TRIOXIDE  | 1561   | 6.1   |         |
| A.n.t.u., see  | 1651   | 6.1   |         | Arsenious chloride, see   | 1560   | 6.1   |         |
| ARGON, COMPRESSED  | 1006   | 2     |         | Arsenites, n.o.s., see  | 1556   | 6.1   |         |
| ARGON, REFRIGERATED LIQUID   | 1951   | 2     |         |   | 1557   | 6.1   |         |
| Arsenates, n.o.s., see   | 1556   | 6.1   |         | Arsenous chloride, see  | 1560   | 6.1   |         |
|  | 1557   | 6.1   |         | ARSINE  | 2188   | 2     |         |
| ARSENIC  | 1558   | 6.1   |         | ARTICLES, EEI, see  | 0486   | 1     |         |
| ARSENIC ACID, LIQUID   | 1553   | 6.1   |         | ARTICLES, EXPLOSIVE, EXTREMELY INSENSITIVE  | 0486   | 1     |         |
| ARSENIC ACID, SOLID  | 1554   | 6.1   |         | ARTICLES, EXPLOSIVE, N.O.S.   | 0349   | 1     |         |
| ARSENICAL DUST   | 1562   | 6.1   |         |   | 0350   | 1     |         |
| Arsenical flue dust, see   | 1562   | 6.1   |         |   | 0351   | 1     |         |
| ARSENICAL PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C     | 2760   | 3     |         |   | 0352   | 1     |         |
| ARSENICAL PESTICIDE, LIQUID, TOXIC   | 2994   | 6.1   |         |   | 0353   | 1     |         |
| ARSENICAL PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C | 2993   | 6.1   |         |   | 0354   | 1     |         |
|  |        |       |         |   | 0355   | 1     |         |
|  |        |       |         |   | 0356   | 1     |         |
|  |        |       |         |   | 0462   | 1     |         |
|  |        |       |         |   | 0463   | 1     |         |
|  |        |       |         |   | 0464   | 1     |         |
|  |        |       |         |   | 0465   | 1     |         |
|  |        |       |         |   | 0466   | 1     |         |
|  |        |       |         |   | 0467   | 1     |         |
|  |        |       |         |   | 0468   | 1     |         |
|  |        |       |         |   | 0469   | 1     |         |
|  |        |       |         |   | 0470   | 1     |         |
|  |        |       |         |   | 0471   | 1     |         |
|  |        |       |         |   | 0472   | 1     |         |
| ARSENICAL PESTICIDE, SOLID, TOXIC  | 2759   | 6.1   |         |   |        |       |         |

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|---|--------|-------|--------------------|--|--------|-------|---------|
| ARTICLES, PRESSURIZED, HYDRAULIC (containing non-flammable gas)           | 3164   | 2     |                    | BARIUM   | 1400   | 4.3   |         |
|   |        |       |                    | BARIUM ALLOYS, PYROPHORIC  | 1854   | 4.2   |         |
| ARTICLES, PRESSURIZED, PNEUMATIC (containing non-flammable gas)           | 3164   | 2     |                    | BARIUM AZIDE, dry or wetted with less than 50% water, by mass          | 0224   | 1     |         |
| ARTICLES, PYROPHORIC  | 0380   | 1     |                    | BARIUM AZIDE, WETTED with not less than 50% water, by mass             | 1571   | 4.1   |         |
| ARTICLES, PYROTECHNIC for technical purposes                              | 0428   | 1     |                    | Barium binoxide, see   | 1449   | 5.1   |         |
|   | 0429   | 1     |                    | BARIUM BROMATE   | 2719   | 5.1   |         |
|   | 0430   | 1     |                    | BARIUM CHLORATE, SOLID   | 1445   | 5.1   |         |
|   | 0431   | 1     |                    |  |        |       |         |
|   | 0432   | 1     |                    |  |        |       |         |
| ARYLSULPHONIC ACIDS, LIQUID with more than 5% free sulphuric acid         | 2584   | 8     |                    | BARIUM CHLORATE, SOLUTION  | 3405   | 5.1   |         |
|   |        |       |                    | BARIUM COMPOUND, N.O.S.  | 1564   | 6.1   |         |
| ARYLSULPHONIC ACIDS, LIQUID with not more than 5% free sulphuric acid     | 2586   | 8     |                    | BARIUM CYANIDE   | 1565   | 6.1   |         |
|   |        |       |                    | Barium dioxide, see  | 1449   | 5.1   |         |
| ARYLSULPHONIC ACIDS, SOLID with more than 5% free sulphuric acid          | 2583   | 8     |                    | BARIUM HYPOCHLORITE with more than 22% available chlorine              | 2741   | 5.1   |         |
|   |        |       |                    | BARIUM NITRATE   | 1446   | 5.1   |         |
| ARYLSULPHONIC ACIDS, SOLID with not more than 5% free sulphuric acid      | 2585   | 8     |                    | BARIUM OXIDE   | 1884   | 6.1   |         |
| Asbestos, blue or brown, see  | 2212   | 9     |                    | BARIUM PERCHLORATE, SOLID  | 1447   | 5.1   |         |
| Asbestos, white, see  | 2590   | 9     |                    | BARIUM PERCHLORATE, SOLUTION   | 3406   | 5.1   |         |
| Asphalt, with a flash-point not greater than 60 °C, see                   | 1999   | 3     |                    | BARIUM PERMANGANATE  | 1448   | 5.1   |         |
| Asphalt, with a flash-point above 60 °C, at or above its flash-point, see | 3256   | 3     |                    | BARIUM PEROXIDE  | 1449   | 5.1   |         |
| Asphalt, at or above 100 °C and below its flash-point, see                | 3257   | 9     |                    | Barium selenate, see   | 2630   | 6.1   |         |
| Aviation regulated liquid, n.o.s.   | 3334   | 9     | Not subject to ADN | Barium selenite, see   | 2630   | 6.1   |         |
|   |        |       |                    | Barium superoxide, see   | 1449   | 5.1   |         |
| Aviation regulated solid, n.o.s.  | 3335   | 9     | Not subject to ADN | BATTERIES, CONTAINING SODIUM   | 3292   | 4.3   |         |
| AZODICARBONAMIDE  | 3242   | 4.1   |                    | BATTERIES, DRY, CONTAINING POTASSIUM HYDROXIDE SOLID, electric storage | 3028   | 8     |         |
| Bag charges, see  | 0242   | 1     |                    | BATTERIES, WET, FILLED WITH ACID, electric storage                     | 2794   | 8     |         |
|   | 0279   | 1     |                    |  |        |       |         |
|   | 0414   | 1     |                    | BATTERIES, WET, FILLED WITH ALKALI, electric storage                   | 2795   | 8     |         |
| Ballistite, see   | 0160   | 1     |                    |  |        |       |         |
|   | 0161   | 1     |                    | BATTERIES, WET, NON-SPILLABLE, electric storage                        | 2800   | 8     |         |
| Bangalore torpedoes, see  | 0136   | 1     |                    | BATTERY FLUID, ACID  | 2796   | 8     |         |
|   | 0137   | 1     |                    |  |        |       |         |
|   | 0138   | 1     |                    | BATTERY FLUID, ALKALI  | 2797   | 8     |         |
|   | 0294   | 1     |                    |  |        |       |         |

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|--|--------|-------|--------------------|---|--------|-------|---------|
| Battery-powered vehicle or Battery-powered equipment | 3171   | 9     | Not subject to ADN | BIOLOGICAL SUBSTANCE, CATEGORY B (animal material only)                           | 3373   | 6.2   |         |
| BENZALDEHYDE   | 1990   | 9     |                    | (BIO) MEDICAL WASTE, N.O.S.   | 3291   | 6.2   |         |
| BENZENE  | 1114   | 3     |                    | BIPYRIDILIUM PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C     | 2782   | 3     |         |
| BENZENESULPHONYL CHLORIDE                            | 2225   | 8     |                    | BIPYRIDILIUM PESTICIDE, LIQUID, TOXIC   | 3016   | 6.1   |         |
| Benzenethiol, see                                    | 2337   | 6.1   |                    | BIPYRIDILIUM PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C | 3015   | 6.1   |         |
| BENZIDINE  | 1885   | 6.1   |                    | BIPYRIDILIUM PESTICIDE, SOLID, TOXIC  | 2781   | 6.1   |         |
| Benzol, see  | 1114   | 3     |                    | BISULPHATES, AQUEOUS SOLUTION   | 2837   | 8     |         |
| Benzolene, see                                       | 1268   | 3     |                    | BISULPHITES, AQUEOUS SOLUTION, N.O.S.   | 2693   | 8     |         |
| BENZONITRILE   | 2224   | 6.1   |                    | Bitumen, with a flash-point not greater than 60 °C, see                           | 1999   | 3     |         |
| BENZOQUINONE   | 2587   | 6.1   |                    | Bitumen, with a flash-point not greater than 60 °C, see                           | 1999   | 3     |         |
| Benzosulphochloride, see                             | 2225   | 8     |                    | Bitumen, with a flash-point above 60 °C, at or above its flash-point, see         | 3256   | 3     |         |
| BENZOTRICHLORIDE                                     | 2226   | 8     |                    | Bitumen, at or above 100 °C and below its flash-point, see                        | 3257   | 9     |         |
| BENZOTRIFLUORIDE                                     | 2338   | 3     |                    | BLACK POWDER, COMPRESSED  | 0028   | 1     |         |
| BENZOYL CHLORIDE                                     | 1736   | 8     |                    | BLACK POWDER, granular or as a meal   | 0027   | 1     |         |
| BENZYL BROMIDE                                       | 1737   | 6.1   |                    | BLACK POWDER, IN PELLETS  | 0028   | 1     |         |
| BENZYL CHLORIDE                                      | 1738   | 6.1   |                    | Blasting cap assemblies, see  | 0360   | 1     |         |
| Benzyl chlorocarbonate, see                          | 1739   | 8     |                    |   | 0361   | 1     |         |
| BENZYL CHLOROFORMATE                                 | 1739   | 8     |                    | Blasting caps, electric, see  | 0030   | 1     |         |
| Benzyl cyanide, see                                  | 2470   | 6.1   |                    |   | 0255   | 1     |         |
| BENZYLDIMETHYLAMINE                                  | 2619   | 8     |                    |   | 0456   | 1     |         |
| BENZYLIDENE CHLORIDE                                 | 1886   | 6.1   |                    | Bleaching powder, see   | 2208   | 5.1   |         |
| BENZYL IODIDE  | 2653   | 6.1   |                    | BLUE ASBESTOS (crocidolite)   | 2212   | 9     |         |
| BERYLLIUM COMPOUND, N.O.S.                           | 1566   | 6.1   |                    | BOMBS with bursting charge  | 0033   | 1     |         |
| BERYLLIUM NITRATE                                    | 2464   | 5.1   |                    |   | 0034   | 1     |         |
| BERYLLIUM POWDER                                     | 1567   | 6.1   |                    |   | 0035   | 1     |         |
| Bhusa  | 1327   | 4.1   | Not subject to ADN |   | 0291   | 1     |         |
| BICYCLO[2.2.1]HEPTA-2,5-DIENE, STABILIZED            | 2251   | 3     |                    | Bombs, illuminating, see  | 0254   | 1     |         |
| Bifluorides, n.o.s., see                             | 1740   | 8     |                    |   |        |       |         |
| BIOLOGICAL SUBSTANCE, CATEGORY B                     | 3373   | 6.2   |                    |   |        |       |         |

| Name and description   | UN No. | Class | Remarks | Name and description               | UN No. | Class | Remarks |
|--|--------|-------|---------|------------------------------------|--------|-------|---------|
| BOMBS, PHOTO-FLASH   | 0037   | 1     |         | BROMINE SOLUTION                   | 1744   | 8     |         |
|  | 0038   | 1     |         |                                    |        |       |         |
|  | 0039   | 1     |         | BROMINE TRIFLUORIDE                | 1746   | 5.1   |         |
|  | 0299   | 1     |         |                                    |        |       |         |
| BOMBS, SMOKE, NON-EXPLOSIVE with corrosive liquid, without initiating device | 2028   | 8     |         | BROMOACETIC ACID, SOLID            | 3425   | 8     |         |
|  |        |       |         | BROMOACETIC ACID, SOLUTION         | 1938   | 8     |         |
| Bombs, target identification, see  | 0171   | 1     |         | BROMOACETONE                       | 1569   | 6.1   |         |
|  | 0254   | 1     |         |                                    |        |       |         |
|  | 0297   | 1     |         | omega-Bromoacetone, see            | 2645   | 6.4   |         |
| BOMBS WITH FLAMMABLE LIQUID with bursting charge                             | 0399   | 1     |         | BROMOACETYL BROMIDE                | 2513   | 8     |         |
|  | 0400   | 1     |         |                                    |        |       |         |
| BOOSTERS WITH DETONATOR  | 0225   | 1     |         | BROMOBENZENE                       | 2514   | 3     |         |
|  | 0268   | 1     |         |                                    |        |       |         |
| BOOSTERS without detonator   | 0042   | 1     |         | BROMOBENZYL CYANIDES, LIQUID       | 1694   | 6.1   |         |
|  | 0283   | 1     |         |                                    |        |       |         |
| Borate and chlorate mixture, see   | 1458   | 5.1   |         | BROMOBENZYL CYANIDES, SOLID        | 3449   | 6.1   |         |
| BORNEOL  | 1312   | 4.1   |         | 1-BROMOBUTANE                      | 1126   | 3     |         |
| BORON TRIBROMIDE   | 2692   | 8     |         | 2-BROMOBUTANE                      | 2339   | 3     |         |
| BORON TRICHLORIDE  | 1741   | 2     |         | BROMOCHLORO-METHANE                | 1887   | 6.1   |         |
| BORON TRIFLUORIDE ACETIC ACID COMPLEX, LIQUID                                | 1742   | 8     |         | 1-BROMO-3-CHLOROPROPANE            | 2688   | 6.1   |         |
|  |        |       |         | 1-Bromo-2,3-epoxypropane, see      | 2558   | 6.1   |         |
| BORON TRIFLUORIDE ACETIC ACID COMPLEX, SOLID                                 | 3419   | 8     |         | Bromoethane, see                   | 1891   | 6.1   |         |
| BORON TRIFLUORIDE  | 1008   | 2     |         | 2-BROMOETHYL ETHYL ETHER           | 2340   | 3     |         |
| BORON TRIFLUORIDE DIETHYL ETHERATE   | 2604   | 8     |         | BROMOFORM                          | 2515   | 6.1   |         |
|  |        |       |         | Bromomethane, see                  | 1062   | 2     |         |
| BORON TRIFLUORIDE DIHYDRATE  | 2851   | 8     |         | 1-BROMO-3-METHYLBUTANE             | 2341   | 3     |         |
| BORON TRIFLUORIDE DIMETHYL ETHERATE  | 2965   | 4.3   |         | BROMOMETHYLPROPANES                | 2342   | 3     |         |
|  |        |       |         | 2-BROMO-2-NITROPROPANE-1,3-DIOL    | 3241   | 4.1   |         |
| BORON TRIFLUORIDE PROPIONIC ACID COMPLEX, LIQUID                             | 1743   | 8     |         | 2-BROMOPENTANE                     | 2343   | 3     |         |
| BORON TRIFLUORIDE PROPIONIC ACID COMPLEX, SOLID                              | 3420   | 8     |         | BROMOPROPANES                      | 2344   | 3     |         |
|  |        |       |         | 3-BROMOPROPYNE                     | 2345   | 3     |         |
| BROMATES, INORGANIC, N.O.S.  | 1450   | 5.1   |         | BROMOTRIFLUOROETHYLENE             | 2419   | 2     |         |
| BROMATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.                                | 3213   | 5.1   |         | BROMOTRIFLUOROMETHANE              | 1009   | 2     |         |
| BROMINE  | 1744   | 8     |         | BROWN ASBESTOS (amosite, mysorite) | 2212   | 9     |         |
| BROMINE CHLORIDE   | 2901   | 2     |         | BRUCINE                            | 1570   | 6.1   |         |
| BROMINE PENTAFLUORIDE  | 1745   | 5.1   |         | BURSTERS, explosive                | 0043   | 1     |         |

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|---|--------|-------|---------|---|--------|-------|---------------------|
| BUTADIENES AND HYDROCARBON MIXTURE, STABILIZED, having a vapour pressure at 70 °C not exceeding 1.1 MPa (11 bar) and a density at 50 °C not lower than 0.525 kg/l | 1010   | 2     |         | n-BUTYL CHLOROFORMATE   | 2743   | 6.1   |                     |
|   |        |       |         | tert-BUTYLCYCLOHEXYL CHLOROFORMATE                                    | 2747   | 6.1   |                     |
|   |        |       |         | BUTYLENES MIXTURE or 1-BUTYLENE or CIS-2-BUTYLENE or TRANS-2-BUTYLENE | 1012   | 2     |                     |
| BUTADIENES, STABILIZED, (1,2-butadiene)   | 1010   | 2     |         |   |        |       |                     |
| BUTADIENES, STABILIZED, (1,3-butadiene)   | 1010   | 2     |         | 1,2-BUTYLENE OXIDE, STABILIZED  | 3022   | 3     |                     |
| BUTANE  | 1011   | 2     |         | Butyl ethers, see   | 1149   | 3     |                     |
| BUTANEDIONE   | 2346   | 3     |         | Butyl ethyl ether, see  | 1179   | 3     |                     |
| Butane-1-thiol, see   | 2347   | 3     |         | n-BUTYL FORMATE   | 1128   | 3     |                     |
| BUTANOLS  | 1120   | 3     |         | tert-BUTYL HYPOCHLORITE   | 3255   | 4.2   | Carriage prohibited |
| 1-Butanol, see  | 1120   | 3     |         |   |        |       |                     |
| Butan-2-ol, see   | 1120   | 3     |         | N,n-BUTYLIMIDAZOLE  | 2690   | 6.1   |                     |
| Butanol, secondary, see   | 1120   | 3     |         | N,n-Butyliminazole, see   | 2690   | 6.1   |                     |
| Butanol, tertiary, see  | 1120   | 3     |         | n-BUTYL ISOCYANATE  | 2485   | 6.1   |                     |
| Butanone, see   | 1193   | 3     |         | tert-BUTYL ISOCYANATE   | 2484   | 6.1   |                     |
| 2-Butenal, see  | 1143   | 6.1   |         | Butyl lithium, see  | 3394   | 4.2   |                     |
| Butene, see   | 1012   | 2     |         | BUTYL MERCAPTAN   | 2347   | 3     |                     |
| Bute-1-ene-3-one, see   | 1251   | 3     |         | n-BUTYL METHACRYLATE, STABILIZED                                      | 2227   | 3     |                     |
| 1,2-Buteneoxide, see  | 3022   | 3     |         | BUTYL METHYL ETHER  | 2350   | 3     |                     |
| 2-Buten-1-ol, see   | 2614   | 3     |         | BUTYL NITRITES  | 2351   | 3     |                     |
| BUTYL ACETATES  | 1123   | 3     |         | Butylphenols, liquid, see   | 3145   | 8     |                     |
| Butyl acetate, secondary, see   | 1123   | 3     |         | Butylphenols, solid, see  | 2430   | 8     |                     |
| BUTYL ACID PHOSPHATE  | 1718   | 8     |         | BUTYL PROPIONATES   | 1914   | 3     |                     |
| BUTYL ACRYLATES, STABILIZED   | 2348   | 3     |         | p-tert-Butyltoluene, see  | 2667   | 6.1   |                     |
| n-Butyl alcohol, see  | 1120   | 3     |         | BUTYLTOLUENES   | 2667   | 6.1   |                     |
| Butyl alcohols, see   | 1120   | 3     |         | BUTYLTRICHLOROSILANE  | 1747   | 8     |                     |
| n-BUTYLAMINE  | 1125   | 3     |         | 5-tert-BUTYL-2,4,6-TRINITRO-m-XYLENE                                  | 2956   | 4.1   |                     |
| N-BUTYLANILINE  | 2738   | 6.1   |         | BUTYL VINYL ETHER, STABILIZED   | 2352   | 3     |                     |
| sec-Butyl benzene, see  | 2709   | 3     |         |   |        |       |                     |
| BUTYLBENZENES   | 2709   | 3     |         | But-1-yne, see  | 2452   | 2     |                     |
| n-Butyl bromide, see  | 1126   | 3     |         | 1,4-BUTYNEDIOL  | 2716   | 6.1   |                     |
| n-Butyl chloride, see   | 1127   | 3     |         | 2-Butyne-1,4-diol, see  | 2716   | 6.1   |                     |

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|---|--------|-------|---------|---|--------|-------|--------------------|
| BUTYRALDEHYDE   | 1129   | 3     |         | CALCIUM HYDRIDE   | 1404   | 4.3   |                    |
| n-Butyraldehyde, see                                  | 1129   | 3     |         | CALCIUM HYDROSULPHITE, see  | 1923   | 4.2   |                    |
| BUTYRALDOXIME   | 2840   | 3     |         | CALCIUM HYPOCHLORITE, DRY   | 1748   | 5.1   |                    |
| BUTYRIC ACID  | 2820   | 8     |         | CALCIUM HYPOCHLORITE, HYDRATED with not less than 5.5% but not more than 16% water              | 2880   | 5.1   |                    |
| BUTYRIC ANHYDRIDE                                     | 2739   | 8     |         |   |        |       |                    |
| Butyrene, see   | 2710   | 3     |         | CALCIUM HYPOCHLORITE, HYDRATED MIXTURE with not less than 5.5% but not more than 16% water      | 2880   | 5.1   |                    |
| BUTYRONITRILE   | 2411   | 3     |         |   |        |       |                    |
| Butyryl chloride, see                                 | 2353   | 3     |         |   |        |       |                    |
| BUTYRYL CHLORIDE                                      | 2353   | 3     |         | CALCIUM HYPOCHLORITE MIXTURE, DRY with more than 10% but not more than 39% available chlorine   | 2208   | 5.1   |                    |
| Cable cutters, explosive, see                         | 0070   | 1     |         |   |        |       |                    |
| CACODYLIC ACID  | 1572   | 6.1   |         | CALCIUM HYPOCHLORITE MIXTURE, DRY with more than 39% available chlorine (8.8% available oxygen) | 1748   | 5.1   |                    |
| CADMIUM COMPOUND                                      | 2570   | 6.1   |         |   |        |       |                    |
| CAESIUM   | 1407   | 4.3   |         | CALCIUM MANGANESE SILICON   | 2844   | 4.3   |                    |
| CAESIUM HYDROXIDE                                     | 2682   | 8     |         |   |        |       |                    |
| CAESIUM HYDROXIDE SOLUTION                            | 2681   | 8     |         | CALCIUM NITRATE   | 1454   | 5.1   |                    |
| CAESIUM NITRATE                                       | 1451   | 5.1   |         | Calcium oxide   | 1910   | 8     | Not subject to ADN |
| Caffeine, see   | 1544   | 6.1   |         |   |        |       |                    |
| Cajeputene, see                                       | 2052   | 3     |         | CALCIUM PERCHLORATE   | 1455   | 5.1   |                    |
| CALCIUM   | 1401   | 4.3   |         | CALCIUM PERMANGANATE  | 1456   | 5.1   |                    |
| CALCIUM ALLOYS, PYROPHORIC                            | 1855   | 4.2   |         | CALCIUM PEROXIDE  | 1457   | 5.1   |                    |
|   |        |       |         | CALCIUM PHOSPHIDE   | 1360   | 4.3   |                    |
| CALCIUM ARSENATE                                      | 1573   | 6.1   |         | CALCIUM, PYROPHORIC   | 1855   | 4.2   |                    |
| CALCIUM ARSENATE AND CALCIUM ARSENITE MIXTURE, SOLID  | 1574   | 6.1   |         | CALCIUM RESINATE  | 1313   | 4.1   |                    |
|   |        |       |         | CALCIUM RESINATE, FUSED   | 1314   | 4.1   |                    |
| Calcium bisulphite solution, see                      | 2693   | 8     |         | Calcium selenate, see   | 2630   | 6.1   |                    |
| CALCIUM CARBIDE                                       | 1402   | 4.3   |         | CALCIUM SILICIDE  | 1405   | 4.3   |                    |
| CALCIUM CHLORATE                                      | 1452   | 5.1   |         | Calcium silicon, see  | 1405   | 4.3   |                    |
| CALCIUM CHLORATE, AQUEOUS SOLUTION                    | 2429   | 5.1   |         | Calcium superoxide, see   | 1457   | 5.1   |                    |
| CALCIUM CHLORITE                                      | 1453   | 5.1   |         | Camphanone, see   | 2717   | 4.1   |                    |
| CALCIUM CYANAMIDE with more than 0.1% calcium carbide | 1403   | 4.3   |         | CAMPBOR OIL   | 1130   | 3     |                    |
| CALCIUM CYANIDE                                       | 1575   | 6.1   |         | CAMPBOR, synthetic  | 2717   | 4.1   |                    |
| CALCIUM DITHIONITE                                    | 1923   | 4.2   |         | CAPROIC ACID  | 2829   | 8     |                    |



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|--|--------|-------|--------------------------|---|--------|-------|---------|
| CARBAMATE PESTICIDE,<br>LIQUID, FLAMMABLE, TOXIC,<br>flash-point less than 23 °C     | 2758   | 3     |                          | Cartridges, actuating, for fire<br>extinguisher or apparatus valve, see | 0275   | 1     |         |
|  |        |       |                          |   | 0276   | 1     |         |
|  |        |       |                          |   | 0323   | 1     |         |
|  |        |       |                          |   | 0381   | 1     |         |
| CARBAMATE PESTICIDE,<br>LIQUID, TOXIC  | 2992   | 6.1   |                          | Cartridges, explosive, see  | 0048   | 1     |         |
| CARBAMATE PESTICIDE,<br>LIQUID, TOXIC, FLAMMABLE,<br>flash-point not less than 23 °C | 2991   | 6.1   |                          | CARTRIDGES, FLASH   | 0049   | 1     |         |
|  |        |       |                          |   | 0050   | 1     |         |
| CARBAMATE PESTICIDE,<br>SOLID, TOXIC   | 2757   | 6.1   |                          | CARTRIDGES FOR WEAPONS<br>with bursting charge                          | 0005   | 1     |         |
|  |        |       |                          |   | 0006   | 1     |         |
|  |        |       |                          |   | 0007   | 1     |         |
|  |        |       |                          |   | 0321   | 1     |         |
| Carbolic acid, see   | 1671   | 6.1   |                          |   | 0348   | 1     |         |
|  | 2312   | 6.1   |                          |   | 0412   | 1     |         |
|  | 2821   | 6.1   |                          |   |        |       |         |
| CARBON, animal or vegetable<br>origin  | 1361   | 4.2   |                          | CARTRIDGES FOR WEAPONS,<br>BLANK  | 0014   | 1     |         |
|  |        |       |                          |   | 0326   | 1     |         |
|  |        |       |                          |   | 0327   | 1     |         |
|  |        |       |                          |   | 0338   | 1     |         |
| CARBON, ACTIVATED  | 1362   | 4.2   |                          |   | 0413   | 1     |         |
| Carbon bisulphide, see   | 1131   | 3     |                          | CARTRIDGES FOR WEAPONS,<br>INERT PROJECTILE                             | 0012   | 1     |         |
| Carbon black (animal or vegetable<br>origin), see                                    | 1361   | 4.2   |                          |   | 0328   | 1     |         |
|  |        |       |                          |   | 0339   | 1     |         |
|  |        |       |                          |   | 0417   | 1     |         |
| CARBON DIOXIDE   | 1013   | 2     |                          | Cartridges, illuminating, see   | 0171   | 1     |         |
| Carbon dioxide and ethylene oxide<br>mixture, see                                    | 1041   | 2     |                          |   | 0254   | 1     |         |
|  |        |       |                          |   | 1952   | 2     |         |
|  |        |       |                          |   | 3300   | 2     |         |
|  |        |       |                          | CARTRIDGES, OIL WELL  | 0277   | 1     |         |
|  |        |       |                          |   | 0278   | 1     |         |
| CARBON DIOXIDE,<br>REFRIGERATED LIQUID   | 2187   | 2     |                          | CARTRIDGES, POWER DEVICE  | 0275   | 1     |         |
| Carbon dioxide, solid  | 1845   | 9     | Not<br>subject to<br>ADN |   | 0276   | 1     |         |
|  |        |       |                          |   | 0323   | 1     |         |
|  |        |       |                          |   | 0381   | 1     |         |
|  |        |       |                          |   |        |       |         |
|  |        |       |                          | CARTRIDGES, SIGNAL  | 0054   | 1     |         |
| CARBON DISULPHIDE  | 1131   | 3     |                          |   | 0312   | 1     |         |
|  |        |       |                          |   | 0405   | 1     |         |
| Carbonic anhydride, see  | 1013   | 2     |                          |   |        |       |         |
|  | 1845   | 9     |                          | CARTRIDGES, SMALL ARMS  | 0012   | 1     |         |
|  | 2187   | 2     |                          |   | 0339   | 1     |         |
|  |        |       |                          |   | 0417   | 1     |         |
| CARBON MONOXIDE,<br>COMPRESSED   | 1016   | 2     |                          | CARTRIDGES, SMALL ARMS,<br>BLANK  | 0014   | 1     |         |
|  |        |       |                          |   | 0327   | 1     |         |
| Carbon oxysulphide, see  | 2204   | 2.3   |                          |   | 0338   | 1     |         |
| Carbon sulphide, see   | 1131   | 3     |                          | Cartridges, starter, jet engine, see                                    | 0275   | 1     |         |
|  |        |       |                          |   | 0276   | 1     |         |
| CARBON TETRABROMIDE  | 2516   | 6.1   |                          |   | 0323   | 1     |         |
|  |        |       |                          |   | 0381   | 1     |         |
| CARBON TETRACHLORIDE   | 1846   | 6.1   |                          | CASES, CARTRIDGE, EMPTY,<br>WITH PRIMER                                 | 0055   | 1     |         |
| Carbonyl chloride, see   | 1076   | 2     |                          |   | 0379   | 1     |         |
| CARBONYL FLUORIDE  | 2417   | 2     |                          | CASES, COMBUSTIBLE, EMPTY,<br>WITHOUT PRIMER                            | 0446   | 1     |         |
|  |        |       |                          |   | 0447   | 1     |         |
| CARBONYL SULPHIDE  | 2204   | 2     |                          | Casinghead gasoline, see  | 1203   | 3     |         |
| Cartridge cases, empty, primed, see  | 0055   | 1     |                          |   |        |       |         |
|  | 0379   | 1     |                          |   |        |       |         |

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|--|------------------------------|------------------|---------|--|------------------------------|------------------|---------|
| CASTOR BEANS   | 2969                         | 9                |         | CHARGES, SHAPED, FLEXIBLE, LINEAR                                  | 0237<br>0288                 | 1<br>1           |         |
| CASTOR FLAKE   | 2969                         | 9                |         | CHARGES, SHAPED, without detonator                                 | 0059<br>0439<br>0440<br>0441 | 1<br>1<br>1<br>1 |         |
| CASTOR MEAL  | 2969                         | 9                |         |  |                              |                  |         |
| CASTOR POMACE  | 2969                         | 9                |         |  |                              |                  |         |
| CAUSTIC ALKALI LIQUID, N.O.S.                                      | 1719                         | 8                |         | CHARGES, SUPPLEMENTARY, EXPLOSIVE                                  | 0060                         | 1                |         |
| Caustic potash, see  | 1814                         | 8                |         | CHEMICAL KIT   | 3316                         | 9                |         |
| Caustic soda, see  | 1824                         | 8                |         | CHEMICAL SAMPLE, TOXIC   | 3315                         | 6.1              |         |
| Caustic soda liquor, see   | 1824                         | 8                |         | Chile saltpetre, see   | 1498                         | 5.1              |         |
| CELLS, CONTAINING SODIUM   | 3292                         | 4.3              |         | CHLORAL, ANHYDROUS, STABILIZED                                     | 2075                         | 6.1              |         |
| CELLULOID in block, rods, rolls, sheets, tubes, etc., except scrap | 2000                         | 4.1              |         | CHLORATE AND BORATE MIXTURE  | 1458                         | 5.1              |         |
| CELLULOID, SCRAP   | 2002                         | 4.2              |         | CHLORATE AND MAGNESIUM CHLORIDE MIXTURE, SOLID                     | 1459                         | 5.1              |         |
| Cement, see  | 1133                         | 3                |         | CHLORATE AND MAGNESIUM CHLORIDE MIXTURE, SOLUTION                  | 3407                         | 5.1              |         |
| CERIUM, slabs, ingots or rods                                      | 1333                         | 4.1              |         |  |                              |                  |         |
| CERIUM, turnings or gritty powder                                  | 3078                         | 4.3              |         | CHLORATES, INORGANIC, N.O.S.                                       | 1461                         | 5.1              |         |
| Cer mishmetall, see  | 1323                         | 4.1              |         | CHLORATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.                     | 3210                         | 5.1              |         |
| Charcoal, activated, see   | 1362                         | 4.1              |         | CHLORIC ACID, AQUEOUS SOLUTION with not more than 10% chloric acid | 2626                         | 5.1              |         |
| Charcoal, non-activated, see                                       | 1361                         | 4.2              |         | CHLORINE   | 1017                         | 2                |         |
| CHARGES, BURSTING, PLASTICS BONDED                                 | 0457<br>0458<br>0459<br>0460 | 1<br>1<br>1<br>1 |         | CHLORINE PENTAFLUORIDE   | 2548                         | 2                |         |
| CHARGES, DEMOLITION  | 0048                         | 1                |         | CHLORINE TRIFLUORIDE   | 1749                         | 2                |         |
| CHARGES, DEPTH   | 0056                         | 1                |         | CHLORITES, INORGANIC, N.O.S.                                       | 1462                         | 5.1              |         |
| Charges, expelling, explosive, for fire extinguishers, see         | 0275<br>0276<br>0323<br>0381 | 1<br>1<br>1<br>1 |         | CHLORITE SOLUTION  | 1908                         | 8                |         |
| CHARGES, EXPLOSIVE, COMMERCIAL without detonator                   | 0442<br>0443<br>0444<br>0445 | 1<br>1<br>1<br>1 |         | Chloroacetaldehyde, see  | 2232                         | 6.1              |         |
| CHARGES, PROPELLING  | 0271<br>0272<br>0415<br>0491 | 1<br>1<br>1<br>1 |         | CHLOROACETIC ACID, MOLTEN  | 3250                         | 6.1              |         |
|  |                              |                  |         | CHLOROACETIC ACID, SOLID   | 1751                         | 6.1              |         |
|  |                              |                  |         | CHLOROACETIC ACID SOLUTION   | 1750                         | 6.1              |         |
|  |                              |                  |         | CHLOROACETONE, STABILIZED  | 1695                         | 6.1              |         |
| CHARGES, PROPELLING, FOR CANNON                                    | 0242<br>0279<br>0414         | 1<br>1<br>1      |         | CHLOROACETONITRILE   | 2668                         | 6.1              |         |
|  |                              |                  |         | CHLOROACETOPHENONE, LIQUID   | 3416                         | 6.1              |         |

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|--|--------|-------|---------|---|--------|-------|---------|
| CHLOROACETOPHENONE, SOLID  | 1697   | 6.1   |         | Chloroethane nitrile, see                           | 2668   | 6.1   |         |
| CHLOROACETYL CHLORIDE  | 1752   | 6.1   |         | 2-Chloroethanol, see                                | 1135   | 6.1   |         |
| CHLOROANILINES, LIQUID   | 2019   | 6.1   |         | CHLOROFORM  | 1888   | 6.1   |         |
| CHLOROANILINES, SOLID  | 2018   | 6.1   |         | CHLOROFORMATES, TOXIC, CORROSIVE, N.O.S.            | 3277   | 6.1   |         |
| CHLOROANISIDINES   | 2233   | 6.1   |         | CHLOROFORMATES, TOXIC, CORROSIVE, FLAMMABLE, N.O.S. | 2742   | 6.1   |         |
| CHLOROBENZENE  | 1134   | 3     |         | Chloromethane, see                                  | 1063   | 2     |         |
| CHLOROBENZOTRIFLUORIDES  | 2234   | 3     |         | 1-Chloro-3-methylbutane, see                        | 1107   | 3     |         |
| CHLOROBENZYL CHLORIDES, LIQUID   | 2235   | 6.1   |         | 2-Chloro-2-methylbutane, see                        | 1107   | 3     |         |
| CHLOROBENZYL CHLORIDES, SOLID  | 3427   | 6.1   |         | CHLOROMETHYL CHLOROFORMATE                          | 2745   | 6.1   |         |
| 1-Chloro-3-bromopropane, see   | 2688   | 6.1   |         | Chloromethyl cyanide, see                           | 2668   | 6.1   |         |
| 1-Chlorobutane, see  | 1127   | 3     |         | CHLOROMETHYL ETHYL ETHER                            | 2354   | 3     |         |
| 2-Chlorobutane, see  | 1127   | 3     |         | 1-Chloro-3-methylbutane, see                        | 1107   | 3     |         |
| CHLOROBUTANES  | 1127   | 3     |         | 1-Chloro-3-methylbutane, see                        | 1107   | 3     |         |
| CHLOROCRESOLS, SOLUTION  | 2669   | 6.1   |         | Chloromethyl methyl ether, see                      | 1239   | 6.1   |         |
| CHLOROCRESOLS, SOLID   | 3437   | 6.1   |         | 3-CHLORO-4-METHYLPHENYL ISOCYANATE, LIQUID          | 2236   | 6.1   |         |
| CHLORODIFLUORO-BROMOMETHANE  | 1974   | 2     |         | 3-CHLORO-4-METHYLPHENYL ISOCYANATE, SOLID           | 3428   | 6.1   |         |
| 1-CHLORO-1,1-DIFLUORO-ETHANE   | 2517   | 2     |         | 1-Chloro-2-methylpropane, see                       | 1127   | 3     |         |
| CHLORODIFLUOROMETHANE  | 1018   | 2     |         | 2-Chloro-2-methylpropane, see                       | 1127   | 3     |         |
| CHLORODIFLUORO-METHANE AND CHLORO-PENTAFLUOROETHANE MIXTURE with fixed boiling point, with approximately 49% chlorodifluoromethane | 1973   | 2     |         | 3-Chloro-2-methylprop-1-ene, see                    | 2554   | 3     |         |
| 3-Chloro-1,2-dihydroxypropane, see   | 2689   | 6.1   |         | CHLORONITROANILINES                                 | 2237   | 6.1   |         |
| Chlorodimethyl ether, see  | 1239   | 6.1   |         | CHLORONITROBENZENES LIQUID                          | 3409   | 6.1   |         |
| 1-Chloro-2,2-dimethylpropane, see  | 1107   | 3     |         | CHLORONITROBENZENES SOLID                           | 1578   | 6.1   |         |
| CHLORODINITROBENZENES, LIQUID  | 1577   | 6.1   |         | CHLORONITROTOLUENES, LIQUID                         | 2433   | 6.1   |         |
| CHLORODINITROBENZENES, SOLID   | 3441   | 6.1   |         | CHLORONITROTOLUENES, SOLID                          | 3457   | 6.1   |         |
| 2-CHLOROETHANAL  | 2232   | 6.1   |         | CHLOROPENTAFLUORO-ETHANE                            | 1020   | 2     |         |
| Chloroethane, see  | 1037   | 2     |         | 1-Chloropentane                                     | 1107   | 3     |         |
|  |        |       |         | CHLOROPHENOLATES, LIQUID                            | 2904   | 8     |         |

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| CHLOROPHENOLATES, SOLID   | 2905   | 8     |         | CHLOROSULPHONIC ACID (with or without sulphur trioxide)  | 1754   | 8     |         |
| CHLOROPHENOLS, LIQUID   | 2021   | 6.1   |         | 1-CHLORO-1,2,2,2-TETRAFLUOROETHANE   | 1021   | 2     |         |
| CHLOROPHENOLS, SOLID  | 2020   | 6.1   |         | CHLOROTOLUENES   | 2238   | 3     |         |
| CHLOROPHENYL-TRICHLOROSILANE  | 1753   | 8     |         | 4-CHLORO- <i>o</i> -TOLUIDINE HYDROCHLORIDE, SOLID   | 1579   | 6.1   |         |
| CHLOROPICRIN  | 1580   | 6.1   |         | 4-CHLORO- <i>o</i> -TOLUIDINE HYDROCHLORIDE, SOLUTION  | 3410   | 6.1   |         |
| CHLOROPICRIN AND METHYL BROMIDE MIXTURE, with more than 2% chloropicrin | 1581   | 2     |         | CHLOROTOLUIDINES LIQUID  | 3429   | 6.1   |         |
| CHLOROPICRIN AND METHYL CHLORIDE MIXTURE                                | 1582   | 2     |         | CHLOROTOLUIDINES SOLID   | 2239   | 6.1   |         |
| CHLOROPICRIN MIXTURE, N.O.S.  | 1583   | 6.1   |         | 1-CHLORO-2,2,2-TRIFLUOROETHANE   | 1983   | 2     |         |
| CHLOROPLATINIC ACID, SOLID  | 2507   | 8     |         | Chlorotrifluoroethylene, see   | 1082   | 2     |         |
| CHLOROPRENE, STABILIZED   | 1991   | 3     |         | CHLOROTRIFLUOROMETHANE   | 1022   | 2     |         |
| 1-CHLOROPROPANE   | 1278   | 3     |         | CHLOROTRIFLUOROMETHANE AND TRIFLUOROMETHANE AZEOTROPIC MIXTURE with approximately 60% chlorotrifluoromethane | 2599   | 2     |         |
| 2-CHLOROPROPANE   | 2356   | 3     |         |  |        |       |         |
| 3-Chloro-propanediol-1,2, see   | 2689   | 6.1   |         | Chromic acid, solid, see   | 1463   | 5.1   |         |
| 3-CHLOROPROPANOL-1  | 2849   | 6.1   |         | CHROMIC ACID SOLUTION  | 1755   | 8     |         |
| 2-CHLOROPROPENE   | 2456   | 3     |         | Chromic anhydride, solid, see  | 1463   | 5.1   |         |
| 3-Chloropropene, see  | 1100   | 3     |         | CHROMIC FLUORIDE, SOLID  | 1756   | 8     |         |
| 3-Chloroprop-1-ene, see   | 1100   | 3     |         | CHROMIC FLUORIDE SOLUTION  | 1757   | 8     |         |
| 2-CHLOROPROPIONIC ACID  | 2511   | 8     |         | Chromic nitrate, see   | 2720   | 5.1   |         |
| 2-CHLOROPYRIDINE  | 2822   | 6.1   |         | Chromium (VI) dichloride dioxide, see  | 1758   | 8     |         |
| CHLOROSILANES, CORROSIVE, N.O.S.  | 2987   | 8     |         | Chromium (III) fluoride, solid, see  | 1756   | 8     |         |
| CHLOROSILANES, CORROSIVE, FLAMMABLE, N.O.S.                             | 2986   | 8     |         | CHROMIUM NITRATE   | 2720   | 5.1   |         |
| CHLOROSILANES, FLAMMABLE, CORROSIVE, N.O.S.                             | 2985   | 3     |         | Chromium (III) nitrate, see  | 2720   | 5.1   |         |
| CHLOROSILANES, TOXIC, CORROSIVE, N.O.S.                                 | 3361   | 6.1   |         | CHROMIUM OXYCHLORIDE   | 1758   | 8     |         |
| CHLOROSILANES, TOXIC, CORROSIVE, FLAMMABLE, N.O.S.                      | 3362   | 6.1   |         | CHROMIUM TRIOXIDE, ANHYDROUS   | 1463   | 5.1   |         |
| CHLOROSILANES, WATER-REACTIVE, FLAMMABLE, CORROSIVE, N.O.S.             | 2988   | 4.3   |         | CHROMOSULPHURIC ACID   | 2240   | 8     |         |
|   |        |       |         | Chrysotile, see  | 2590   | 9     |         |
|   |        |       |         | Cinene, see  | 2052   | 3     |         |
|   |        |       |         | Cinnamene, see   | 2055   | 3     |         |

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| Cinnamol, see   | 2055   | 3     |         | COMPRESSED GAS, TOXIC, OXIDIZING, N.O.S.  | 3303         | 2      |         |
| CLINICAL WASTE, UNSPECIFIED, N.O.S.   | 3291   | 6.2   |         | COMPRESSED GAS, TOXIC, OXIDIZING, CORROSIVE, N.O.S.                               | 3306         | 2      |         |
| COAL GAS, COMPRESSED  | 1023   | 2     |         | CONTRIVANCES, WATER-ACTIVATED with burster, expelling charge or propelling charge | 0248<br>0249 | 1<br>1 |         |
| COAL TAR DISTILLATES, FLAMMABLE   | 1136   | 3     |         | COPPER ACETOARSENITE  | 1585         | 6.1    |         |
| Coal tar naphtha, see   | 1268   | 3     |         | COPPER ARSENITE   | 1586         | 6.1    |         |
| Coal tar oil, see   | 1136   | 3     |         | Copper (II) arsenite, see   | 1586         | 6.1    |         |
| COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle under coating, drum or barrel lining) | 1139   | 3     |         | COPPER BASED PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C     | 2776         | 3      |         |
| COBALT NAPHTHENATES, POWDER   | 2001   | 4.1   |         | COPPER BASED PESTICIDE, LIQUID, TOXIC   | 3010         | 6.1    |         |
| COBALT RESINATE, PRECIPITATED   | 1318   | 4.1   |         | COPPER BASED PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C | 3009         | 6.1    |         |
| Cocculus, see   | 3172   | 6.1   |         | COPPER BASED PESTICIDE, SOLID, TOXIC  | 2775         | 6.1    |         |
| Collodion cottons, see  | 3462   | 6.1   |         |   |              |        |         |
|   | 0340   | 1     |         | COPPER CHLORATE   | 2721         | 5.1    |         |
|   | 0341   | 1     |         |   |              |        |         |
|   | 0342   | 1     |         | Copper (II) chlorate, see   | 2721         | 5.1    |         |
|   | 2059   | 3     |         |   |              |        |         |
|   | 2555   | 4.1   |         | COPPER CHLORIDE   | 2802         | 8      |         |
|   | 2556   | 4.1   |         |   |              |        |         |
|   | 2557   | 4.1   |         | COPPER CYANIDE  | 1587         | 6.1    |         |
| COMPONENTS, EXPLOSIVE TRAIN, N.O.S.   | 0382   | 1     |         | Copper selenate, see  | 2630         | 6.1    |         |
|   | 0383   | 1     |         |   |              |        |         |
|   | 0384   | 1     |         | Copper selenite, see  | 2630         | 6.1    |         |
|   | 0461   | 1     |         |   |              |        |         |
| Composition B, see  | 0118   | 1     |         | COPRA   | 1363         | 4.2    |         |
| COMPRESSED GAS, N.O.S.  | 1956   | 2     |         | CORD, DETONATING, flexible  | 0065<br>0289 | 1<br>1 |         |
| COMPRESSED GAS, FLAMMABLE, N.O.S.   | 1954   | 2     |         | CORD, DETONATING, metal clad  | 0102<br>0290 | 1<br>1 |         |
| COMPRESSED GAS, OXIDIZING, N.O.S.   | 3156   | 2     |         | CORD, DETONATING, MILD EFFECT, metal clad   | 0104         | 1      |         |
| COMPRESSED GAS, TOXIC, N.O.S.   | 1955   | 2     |         | CORD, IGNITER   | 0066         | 1      |         |
| COMPRESSED GAS, TOXIC, CORROSIVE, N.O.S.  | 3304   | 2     |         | Cordite, see  | 0160<br>0161 | 1<br>1 |         |
| COMPRESSED GAS, TOXIC, FLAMMABLE, N.O.S.  | 1953   | 2     |         | CORROSIVE LIQUID, N.O.S.  | 1760         | 8      |         |
| COMPRESSED GAS, TOXIC, FLAMMABLE, CORROSIVE, N.O.S.   | 3305   | 2     |         | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.                                       | 3264         | 8      |         |
|   |        |       |         | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.   | 3265         | 8      |         |

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| CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.   | 3266   | 8     |         | COUMARIN DERIVATIVE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C | 3025   | 6.1   |         |
| CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.   | 3267   | 8     |         | COUMARIN DERIVATIVE PESTICIDE, SOLID, TOXIC  | 3027   | 6.1   |         |
| CORROSIVE LIQUID, FLAMMABLE, N.O.S.  | 2920   | 8     |         | Creosote, see  | 2810   | 6.1   |         |
| CORROSIVE LIQUID, OXIDIZING, N.O.S.  | 3093   | 8     |         | Creosote salts, see  | 1334   | 4.1   |         |
| CORROSIVE LIQUID, SELF-HEATING, N.O.S.   | 3301   | 8     |         | CRESOLS, LIQUID  | 2076   | 6.1   |         |
| CORROSIVE LIQUID, TOXIC, N.O.S.  | 2922   | 8     |         | CRESOLS, SOLID   | 3455   | 6.1   |         |
| CORROSIVE LIQUID, WATER-REACTIVE, N.O.S.   | 3094   | 8     |         | CRESYLIC ACID  | 2022   | 6.1   |         |
| CORROSIVE SOLID, N.O.S.  | 1759   | 8     |         | Crocidolite, see   | 2212   | 9     |         |
| CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.   | 3260   | 8     |         | CROTONALDEHYDE   | 1143   | 6.1   |         |
| CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.   | 3261   | 8     |         | CROTONALDEHYDE, STABILIZED   | 1143   | 6.1   |         |
| CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.  | 3262   | 8     |         | CROTONIC ACID, LIQUID  | 3472   | 8     |         |
| CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.  | 3263   | 8     |         | CROTONIC ACID, SOLID   | 2823   | 8     |         |
| CORROSIVE SOLID, FLAMMABLE, N.O.S.   | 2921   | 8     |         | Crotonic aldehyde / Crotonic aldehyde, stabilized, see                                   | 1143   | 6.1   |         |
| CORROSIVE SOLID, OXIDIZING, N.O.S.   | 3084   | 8     |         | CROTONYLENE  | 1144   | 3     |         |
| CORROSIVE SOLID, SELF-HEATING, N.O.S.  | 3095   | 8     |         | Crude naphtha, see   | 1268   | 3     |         |
| CORROSIVE SOLID, TOXIC, N.O.S.   | 2923   | 8     |         | Cumene, see  | 1918   | 3     |         |
| CORROSIVE SOLID, WATER-REACTIVE, N.O.S.  | 3096   | 8     |         | Cupric chlorate, see   | 2721   | 5.1   |         |
| COTTON WASTE, OILY   | 1364   | 4.2   |         | CUPRIETHYLENEDIAMINE SOLUTION  | 1761   | 8     |         |
| COTTON, WET  | 1365   | 4.2   |         | Cut backs, with a flash-point not greater than 60 °C, see                                | 1999   | 3     |         |
| COUMARIN DERIVATIVE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C | 3024   | 3     |         | Cut backs, with a flash-point above 60 °C, at or above its flash-point, see              | 3256   | 3     |         |
| COUMARIN DERIVATIVE PESTICIDE, LIQUID, TOXIC   | 3026   | 6.1   |         | Cut backs, at or above 100 °C and below its flash-point, see                             | 3257   | 9     |         |
|  |        |       |         | CUTTERS, CABLE, EXPLOSIVE  | 0070   | 1     |         |
|  |        |       |         | CYANIDE SOLUTION, N.O.S.   | 1935   | 6.1   |         |
|  |        |       |         | CYANIDES, INORGANIC, SOLID, N.O.S.   | 1588   | 6.1   |         |
|  |        |       |         | Cyanides, organic, flammable, toxic, n.o.s., see   | 3273   | 3     |         |
|  |        |       |         | Cyanides, organic, toxic, n.o.s., see  | 3276   | 6.1   |         |
|  |        |       |         |  | 3439   | 6.1   |         |

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| Cyanides, organic, toxic, flammable, n.o.s., see   | 3275   | 6.1   |         | CYCLONITE, WETTED with not less than 15% water, by mass, see   | 0072   | 1     |  |
| Cyanoacetonitrile, see   | 2647   | 6.1   |         | CYCLOOCTADIENES  | 2520   | 3     |  |
| CYANOGEN   | 1026   | 2     |         | CYCLOOCTADIENE<br>PHOSPHINES, see  | 2940   | 4.2   |  |
| CYANOGEN BROMIDE   | 1889   | 6.1   |         | CYCLOOCTATETRAENE  | 2358   | 3     |  |
| CYANOGEN CHLORIDE,<br>STABILIZED   | 1589   | 2     |         | CYCLOPENTANE   | 1146   | 3     |  |
| CYANURIC CHLORIDE  | 2670   | 8     |         | CYCLOPENTANOL  | 2244   | 3     |  |
| CYCLOBUTANE  | 2601   | 2     |         | CYCLOPENTANONE   | 2245   | 3     |  |
| CYCLOBUTYL<br>CHLOROFORMATE  | 2744   | 6.1   |         | CYCLOPENTENE   | 2246   | 3     |  |
| 1,5,9-CYCLODODECATRIENE  | 2518   | 6.1   |         | CYCLOPROPANE   | 1027   | 2     |  |
| CYCLOHEPTANE   | 2241   | 3     |         | CYCLOTETRAMETHYLENE-<br>TETRANITRAMINE,<br>DESENSITIZED  | 0484   | 1     |  |
| CYCLOHEPTATRIENE   | 2603   | 3     |         | CYCLOTETRAMETHYLENE-<br>TETRANITRAMINE, WETTED<br>with not less than 15% water, by<br>mass   | 0226   | 1     |  |
| 1,3,5-Cycloheptatriene, see  | 2603   | 3     |         |  |        |       |  |
| CYCLOHEPTENE   | 2242   | 3     |         |  |        |       |  |
| 1,4-Cyclohexadienedione, see   | 2587   | 6.1   |         | CYCLOTRIMETHYLENE-<br>TRINITRAMINE AND<br>CYCLOTETRAMETHYLENE-<br>TETRANITRAMINE MIXTURE,<br>DESENSITIZED with not less than<br>10% phlegmatiser by mass | 0391   | 1     |  |
| CYCLOHEXANE  | 1145   | 3     |         |  |        |       |  |
| Cyclehexanethiol, see  | 3054   | 3     |         |  |        |       |  |
| CYCLOHEXANONE  | 1915   | 3     |         | CYCLOTRIMETHYLENE-<br>TRINITRAMINE AND<br>CYCLOTETRAMETHYLENE-<br>TETRANITRAMINE MIXTURE,<br>WETTED with not less than 15%<br>water, by mass             | 0391   | 1     |  |
| CYCLOHEXENE  | 2256   | 3     |         |  |        |       |  |
| CYCLOHEXENYLTRI-<br>CHLOROSILANE   | 1762   | 8     |         | CYCLOTRIMETHYLENE-<br>TRINITRAMINE, DESENSITIZED   | 0483   | 1     |  |
| CYCLOHEXYL ACETATE   | 2243   | 3     |         |  |        |       |  |
| CYCLOHEXYLAMINE  | 2357   | 8     |         | CYCLOTRIMETHYLENE-<br>TRINITRAMINE, WETTED with<br>not less than 15% water, by mass  | 0072   | 1     |  |
| CYCLOHEXYL ISOCYANATE  | 2488   | 6.1   |         |  |        |       |  |
| CYCLOHEXYL MERCAPTAN   | 3054   | 3     |         | CYMENES  | 2046   | 3     |  |
| CYCLOHEXYLTRI-<br>CHLOROSILANE   | 1763   | 8     |         | Cymol, see   | 2046   | 3     |  |
| CYCLONITE AND<br>CYCLOTETRAMETHYLENE-<br>TETRANITRAMINE MIXTURE,<br>WETTED with not less than 15%<br>water, by mass or DESENSITIZED<br>with not less than 10% phlegmatiser<br>by mass, see | 0391   | 1     |         | Deanol, see  | 2051   | 8     |  |
|  |        |       |         | Dangerous goods in machinery or<br>dangerous goods in apparatus  | 3363   | 9     | Not<br>subject to<br>ADN [see<br>also<br>1.1.3.1<br>(b)] |
|  |        |       |         | DECABORANE   | 1868   | 4.1   |  |
| CYCLONITE, DESENSITIZED, see   | 0483   | 1     |         | DECAHYDRONAPHTHALENE   | 1147   | 3     |  |

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| Decalin, see   | 1147   | 3     |         | DIAZODINITROPHENOL,<br>WETTED with not less than 40%<br>water, or mixture of alcohol and<br>water, by mass                         | 0074   | 1     |                             |
| n-DECANE   | 2247   | 3     |         | Dibenzopyridine, see   | 2713   | 6.1   |                             |
| DEFLAGRATING METAL SALTS<br>OF AROMATIC<br>NITRODERIVATIVES, N.O.S.              | 0132   | 1     |         | DIBENZYLDICHLOROSILANE   | 2434   | 8     |                             |
| Depth charge, see  | 0056   | 1     |         | DIBORANE   | 1911   | 2     |                             |
| DESENSITIZED EXPLOSIVE,<br>LIQUID, N.O.S.  | 3379   | 3     |         | 1,2-DIBROMOBUTAN-3-ONE   | 2648   | 6.1   |                             |
| DESENSITIZED EXPLOSIVE,<br>SOLID, N.O.S.   | 3380   | 4.1   |         | DIBROMOCHLOROPROPANES  | 2872   | 6.1   |                             |
| Detonating relays, see   | 0029   | 1     |         | 1,2-Dibromo-3-chloropropane, see   | 2872   | 6.1   |                             |
|  | 0267   | 1     |         | DIBROMODIFLUORO-METHANE  | 1941   | 9     |                             |
|  | 0360   | 1     |         | DIBROMOMETHANE   | 2664   | 6.1   |                             |
|  | 0361   | 1     |         | DI-n-BUTYLAMINE  | 2248   | 8     |                             |
|  | 0455   | 1     |         |  |        |       |                             |
|  | 0500   | 1     |         | DIBUTYLAMINOETHANOL  | 2873   | 6.1   |                             |
| DETONATOR ASSEMBLIES,<br>NON-ELECTRIC for blasting                               | 0360   | 1     |         | 2-Dibutylaminoethanol, see   | 2873   | 6.1   |                             |
|  | 0361   | 1     |         |  |        |       |                             |
|  | 0500   | 1     |         | N,N-Di-n-butylaminoethanol, see  | 2873   | 6.1   |                             |
| DETONATORS FOR<br>AMMUNITION   | 0073   | 1     |         | DIBUTYL ETHERS   | 1149   | 3     |                             |
|  | 0364   | 1     |         | DICHLOROACETIC ACID  | 1764   | 8     |                             |
|  | 0365   | 1     |         | 1,3-DICHLOROACETONE  | 2649   | 6.1   |                             |
|  | 0366   | 1     |         | DICHLOROACETYL CHLORIDE  | 1765   | 8     |                             |
| DETONATORS, ELECTRIC for<br>blasting   | 0030   | 1     |         | DICHLOROANILINES, LIQUID   | 1590   | 6.1   |                             |
|  | 0255   | 1     |         | DICHLOROANILINES, SOLID  | 3442   | 6.1   |                             |
|  | 0456   | 1     |         | o-DICHLOROBENZENE  | 1591   | 6.1   |                             |
| DETONATORS, NON-ELECTRIC<br>for blasting   | 0029   | 1     |         | 2,2'-DICHLORODIETHYL ETHER   | 1916   | 6.1   |                             |
|  | 0267   | 1     |         | DICHLORODIFLUORO-<br>METHANE   | 1028   | 2     |                             |
|  | 0455   | 1     |         | DICHLORODIFLUORO-<br>METHANE AND 1,1-<br>DIFLUOROETHANE<br>AZEOTROPIC MIXTURE<br>with approximately 74%<br>dichlorodifluoromethane | 2602   | 2     |                             |
| DEUTERIUM, COMPRESSED  | 1957   | 2     |         |  |        |       |                             |
| DEVICES, SMALL,<br>HYDROCARBON GAS POWERED<br>with release device                | 3150   | 2     |         | Dichlorodifluoromethane and<br>ethylene oxide mixture, see   | 3070   | 2     |                             |
| DIACETONE ALCOHOL  | 1148   | 3     |         | DICHLORODIMETHYL ETHER,<br>SYMMETRICAL   | 2249   | 6.1   | Carriage<br>prohi-<br>bited |
| DIALKYL-(C <sub>12</sub> -C <sub>18</sub> )-DIMETHYL-<br>AMMONIUM and 2-PROPANOL | 3175   | 4.1   |         | 1,1-DICHLOROETHANE   | 2362   | 3     |                             |
| DIALLYLAMINE   | 2359   | 3     |         | 1,2-Dichloroethane, see  | 1184   | 3     |                             |
| DIALLYL ETHER  | 2360   | 3     |         |  |        |       |                             |
| 4,4'-DIAMINODIPHENYL-<br>METHANE   | 2651   | 6.1   |         |  |        |       |                             |
| 1,2-Diaminoethane, see   | 1604   | 8     |         |  |        |       |                             |
| Diaminopropylamine, see  | 2269   | 8     |         |  |        |       |                             |
| DI-n-AMYLAMINE   | 2841   | 3     |         |  |        |       |                             |



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|--|--------|-------|---------|---|--------|-------|---------|
| 1,2-DICHLOROETHYLENE                   | 1150   | 3     |         | 1,1-Diethoxyethane, see   | 1088   | 3     |         |
| Di(2-chloroethyl) ether, see           | 1916   | 6.1   |         | 1,2-Diethoxyethane, see   | 1153   | 3     |         |
| DICHLOROFLUOROMETHANE                  | 1029   | 2     |         | DIETHOXYMETHANE   | 2373   | 3     |         |
| alpha-Dichlorohydrin, see              | 2750   | 6.1   |         | 3,3-DIETHOXYPROPENE   | 2374   | 3     |         |
| DICHLOROISOCYANURIC ACID, DRY          | 2465   | 5.1   |         | DIETHYLAMINE  | 1154   | 3     |         |
| DICHLOROISOCYANURIC ACID SALTS         | 2465   | 5.1   |         | 2-DIETHYLAMINOETHANOL   | 2686   | 8     |         |
| DICHLOROISOPROPYL ETHER                | 2490   | 6.1   |         | 3-DIETHYL-AMINOPROPYLAMINE  | 2684   | 3     |         |
| DICHLOROMETHANE                        | 1593   | 6.1   |         | N,N-DIETHYLANILINE  | 2432   | 6.1   |         |
| 1,1-DICHLORO-1-NITROETHANE             | 2650   | 6.1   |         | DIETHYLBENZENE  | 2049   | 3     |         |
| DICHLOROPENTANES                       | 1152   | 3     |         | Diethylcarbinol, see  | 1105   | 3     |         |
| Dichlorophenol, see                    | 2020   | 6.1   |         | DIETHYL CARBONATE   | 2366   | 3     |         |
|  | 2021   | 6.1   |         | DIETHYLDICHLOROSILANE   | 1767   | 8     |         |
| DICHLOROPHENYL ISOCYANATES             | 2250   | 6.1   |         | Diethylenediamine, see  | 2579   | 8     |         |
| DICHLOROPHENYLTRI-CHLOROSILANE         | 1766   | 8     |         | DIETHYLENEGLYCOL DINITRATE, DESENSITIZED with not less than 25% non-volatile, water-insoluble phlegmatizer, by mass | 0075   | 1     |         |
| 1,2-DICHLOROPROPANE                    | 1279   | 3     |         | DIETHYLENETRIAMINE  | 2079   | 8     |         |
| 1,3-DICHLORO-PROPANOL-2                | 2750   | 6.1   |         | N,N-Diethylethanolamine, see  | 2686   | 3     |         |
| 1,3-Dichloro-2-propanone, see          | 2649   | 6.1   |         | DIETHYL ETHER   | 1155   | 3     |         |
| DICHLOROPROPENES                       | 2047   | 3     |         | N,N-DIETHYLETHYLENE-DIAMINE   | 2685   | 8     |         |
| DICHLOROSILANE                         | 2189   | 2     |         | Di-(2-ethylhexyl) phosphoric acid, see  | 1902   | 8     |         |
| 1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE | 1958   | 2     |         | DIETHYL KETONE  | 1156   | 3     |         |
| Dichloro-s-triazine-2,4,6-trione, see  | 2465   | 5.1   |         | DIETHYL SULPHATE  | 1594   | 6.1   |         |
| 1,4-Dicyanobutane, see                 | 2205   | 6.1   |         | DIETHYL SULPHIDE  | 2375   | 3     |         |
| Dicycloheptadiene, see                 | 2251   | 3     |         | DIETHYLTHIOPHOSPHORYL CHLORIDE  | 2751   | 8     |         |
| DICYCLOHEXYLAMINE                      | 2565   | 8     |         | Diethylzinc, see  | 3394   | 4.2   |         |
| Dicyclohexylamine nitrite, see         | 2687   | 4.1   |         | 2,4-Difluoroaniline, see  | 2941   | 6.1   |         |
| DICYCLOHEXYLAMMONIUM NITRITE           | 2687   | 4.1   |         | Difluorochloroethane, see   | 2517   | 2     |         |
| DICYCLOPENTADIENE                      | 2048   | 3     |         | 1,1-DIFLUOROETHANE  | 1030   | 2     |         |
| 1,2-DI-(DIMETHYLAMINO) ETHANE          | 2372   | 3     |         | 1,1-DIFLUOROETHYLENE  | 1959   | 2     |         |
| DIDYMIUM NITRATE                       | 1465   | 5.1   |         | DIFLUOROMETHANE   | 3252   | 2     |         |
| DIESEL FUEL                            | 1202   | 3     |         |   |        |       |         |

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|---|--------|-------|---------|------------------------------------|--------|-------|---------|
| Difluoromethane, pentafluoroethane, and 1,1,1,2-tetrafluoroethane zeotropic mixture with approximately 10% difluoromethane and 70% pentafluoroethane, see | 3339   | 2     |         | N,N-DIMETHYLANILINE                | 2253   | 6.1   |         |
|   |        |       |         | Dimethylarsenic acid, see          | 1572   | 6.1   |         |
|   |        |       |         | N,N-Dimethylbenzylamine, see       | 2619   | 8     |         |
| Difluoromethane, pentafluoroethane, and 1,1,1,2-tetrafluoroethane zeotropic mixture with approximately 20% difluoromethane and 40% pentafluoroethane, see | 3338   | 2     |         | 2,3-DIMETHYLBUTANE                 | 2457   | 3     |         |
|   |        |       |         | 1,3-DIMETHYLBUTYLAMINE             | 2379   | 3     |         |
|   |        |       |         | DIMETHYLCARBAMOYL CHLORIDE         | 2262   | 8     |         |
| Difluoromethane, pentafluoroethane, and 1,1,1,2-tetrafluoroethane zeotropic mixture with approximately 23% difluoromethane and 25% pentafluoroethane, see | 3340   | 2     |         | DIMETHYL CARBONATE                 | 1161   | 3     |         |
|   |        |       |         | DIMETHYLCYCLOHEXANES               | 2263   | 3     |         |
| DIFLUOROPHOSPHORIC ACID, ANHYDROUS  | 1768   | 8     |         | N,N-DIMETHYLCYCLO-HEXYLAMINE       | 2264   | 8     |         |
| 2,3-DIHYDROPYRAN  | 2376   | 3     |         | DIMETHYLDICHLOROSILANE             | 1162   | 3     |         |
|   |        |       |         | DIMETHYLDIETHOXY SILANE            | 2380   | 3     |         |
| DIISOBUTYLAMINE   | 2361   | 3     |         | DIMETHYLDIOXANES                   | 2707   | 3     |         |
| DIISOBUTYLENE, ISOMERIC COMPOUNDS   | 2050   | 3     |         | DIMETHYL DISULPHIDE                | 2381   | 3     |         |
| alpha-Diisobutylene, see  | 2050   | 3     |         | Dimethylethanolamine, see          | 2051   | 8     |         |
| beta-Diisobutylene, see   | 2050   | 3     |         | DIMETHYL ETHER                     | 1033   | 2     |         |
| DIISOBUTYL KETONE   | 1157   | 3     |         | N,N-DIMETHYLFORMAMIDE              | 2265   | 3     |         |
| DIISOCTYL ACID PHOSPHATE  | 1902   | 8     |         | DIMETHYLHYDRAZINE, SYMMETRICAL     | 2382   | 6.1   |         |
| DIISOPROPYLAMINE  | 1158   | 3     |         | DIMETHYLHYDRAZINE, UNSYMMETRICAL   | 1163   | 6.1   |         |
| DIISOPROPYL ETHER   | 1159   | 3     |         | 1,1-Dimethylhydrazine, see         | 1163   | 6.1   |         |
| DIKETENE, STABILIZED  | 2521   | 6.1   |         | N,N-Dimethyl-4-nitrosoaniline, see | 1369   | 4.2   |         |
| 1,1-DIMETHOXYETHANE   | 2377   | 3     |         | 2,2-DIMETHYLPROPANE                | 2044   | 2     |         |
| 1,2-DIMETHOXYETHANE   | 2252   | 3     |         | DIMETHYL-N-PROPYLAMINE             | 2266   | 3     |         |
| Dimethoxystrychnine, see  | 1570   | 6.1   |         | DIMETHYL SULPHATE                  | 1595   | 6.1   |         |
| DIMETHYLAMINE, ANHYDROUS  | 1032   | 2     |         | DIMETHYL SULPHIDE                  | 1164   | 3     |         |
| DIMETHYLAMINE AQUEOUS SOLUTION  | 1160   | 3     |         | DIMETHYL THIOPHOSPHORYL CHLORIDE   | 2267   | 6.1   |         |
| 2-DIMETHYLAMINO-ACETONITRILE  | 2378   | 3     |         | Dimethylzinc, see                  | 3394   | 4.2   |         |
|   |        |       |         | DINGU, see                         | 0489   | 1     |         |
| 2-DIMETHYLAMINOETHANOL  | 2051   | 8     |         | DINITROANILINES                    | 1596   | 6.1   |         |
| 2-DIMETHYLAMINOETHYL ACRYLATE   | 3302   | 6.1   |         | DINITROBENZENES, LIQUID            | 1597   | 6.1   |         |
|   |        |       |         | DINITROBENZENES, SOLID             | 3443   | 6.1   |         |
| 2-DIMETHYLAMINOETHYL METHACRYLATE   | 2522   | 6.1   |         | Dinitrochlorobenzene, see          | 1577   | 6.1   |         |
|   |        |       |         |                                    | 3441   | 6.1   |         |

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|---|--------|-------|--------------------------------|--|--------|-------|--------------------|
| DINITRO-o-CRESOL  | 1598   | 6.1   |                                | DIPICRYLAMINE, see   | 0079   | 1     |                    |
| DINITROGEN TETROXIDE  | 1067   | 2     |                                | DIPICRYL SULPHIDE, dry or wetted with less than 10% water, by mass | 0401   | 1     |                    |
| DINITROGLYCOLURIL   | 0489   | 1     |                                | DIPICRYL SULPHIDE, WETTED with not less than 10% water, by mass    | 2852   | 4.1   |                    |
| DINITROPHENOL, dry or wetted with less than 15% water, by mass                    | 0076   | 1     |                                | DIPROPYLAMINE  | 2383   | 3     |                    |
| DINITROPHENOL SOLUTION  | 1599   | 6.1   |                                | Dipropylene triamine, see  | 2269   | 8     |                    |
| DINITROPHENOL, WETTED with not less than 15% water, by mass                       | 1320   | 4.1   |                                | DI-n-PROPYL ETHER  | 2384   | 3     |                    |
| DINITROPHENOLATES, alkali metals, dry or wetted with less than 15% water, by mass | 0077   | 1     |                                | DIPROPYL KETONE  | 2710   | 3     |                    |
| DINITROPHENOLATES, WETTED with not less than 15% water, by mass                   | 1321   | 4.1   |                                | DISINFECTANT, LIQUID, CORROSIVE, N.O.S.                            | 1903   | 8     |                    |
| DINITRORESORCINOL, dry or wetted with less than 15% water, by mass                | 0078   | 1     |                                | DISINFECTANT, LIQUID, TOXIC, N.O.S.                                | 3142   | 6.1   |                    |
| DINITRORESORCINOL, WETTED with not less than 15% water, by mass                   | 1322   | 4.1   |                                | DISINFECTANT, SOLID, TOXIC, N.O.S.                                 | 1601   | 6.1   |                    |
| DINITROSOBENZENE  | 0406   | 1     |                                | DISODIUM TRIOXOSILICATE  | 3253   | 8     |                    |
| Dinitrotoluene mixed with sodium chlorate, see                                    | 0083   | 1     |                                | DIVINYL ETHER, STABILIZED  | 1167   | 3     |                    |
| DINITROTOLUENES, LIQUID   | 2038   | 6.1   |                                | DODECYLTRICHLOROSILANE   | 1771   | 8     |                    |
| DINITROTOLUENES, MOLTEN   | 1600   | 6.1   |                                | Dry ice, see   | 1845   | 9     | Not subject to ADN |
| DINITROTOLUENES, SOLID  | 3454   | 6.1   |                                | DYE INTERMEDIATE, LIQUID, CORROSIVE, N.O.S.                        | 2801   | 8     |                    |
| DIOXANE   | 1165   | 3     |                                | DYE INTERMEDIATE, LIQUID, TOXIC, N.O.S.                            | 1602   | 6.1   |                    |
| DIOXOLANE   | 1166   | 3     |                                | DYE INTERMEDIATE, SOLID, CORROSIVE, N.O.S.                         | 3147   | 8     |                    |
| DIPENTENE   | 2052   | 3     |                                | DYE INTERMEDIATE, SOLID, TOXIC, N.O.S.                             | 3143   | 6.1   |                    |
| DIPHENYLAMINE<br>CHLOROARSINE   | 1698   | 6.1   |                                | DYE, LIQUID, CORROSIVE, N.O.S.                                     | 2801   | 8     |                    |
| DIPHENYLCHLOROARSINE, LIQUID  | 1699   | 6.1   |                                | DYE, LIQUID, TOXIC, N.O.S.   | 1602   | 6.1   |                    |
| DIPHENYLCHLOROARSINE, SOLID   | 3450   | 6.1   |                                | DYE, SOLID, CORROSIVE, N.O.S.                                      | 3147   | 8     |                    |
| DIPHENYLDICHLOROSILANE  | 1769   | 8     |                                | DYE, SOLID, TOXIC, N.O.S.  | 3143   | 6.1   |                    |
| DIPHENYLMETHANE-4, 4'-DIISOCYANATE  | 9004   | 9     | Dangerous in tank vessels only | Dynamite, see  | 0081   | 1     |                    |
|   |        |       |                                | Electric storage batteries, see                                    | 2794   | 8     |                    |
|   |        |       |                                |  | 2795   | 8     |                    |
|   |        |       |                                |  | 2800   | 8     |                    |
| DIPHENYLMETHYL BROMIDE  | 1770   | 8     |                                |  | 3028   | 8     |                    |

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|---|------------------------------|------------------|--|--|--------------|--------|---------|
| Electrolyte (acid or alkaline) for batteries, see   | 2796<br>2797                 | 8<br>8           |  | Engines, rocket, see   | 0250<br>0322 | 1<br>1 |         |
| ELEVATED TEMPERATURE LIQUID, N.O.S., at or above 100 °C and below its flash-point (including molten metals, molten salts, etc.) | 3257                         | 9                |  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  | 3082         | 9      |         |
| ELEVATED TEMPERATURE LIQUID, FLAMMABLE, N.O.S. with flash-point above 60 °C, at or above its flash-point                        | 3256                         | 3                |  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.   | 3077         | 9      |         |
| ELEVATED TEMPERATURE SOLID, N.O.S., at or above 240 °C  | 3258                         | 9                |  | EPIBROMOHYDRIN   | 2558         | 6.1    |         |
| Empty battery-vehicle, uncleaned  |                              |                  | See<br>4.3.2.4 of<br>ADR,<br>5.1.3 and<br>5.4.1.1.6  | EPICHLOROHYDRIN  | 2023         | 6.1    |         |
|   |                              |                  |  | 1,2-Epoxybutane, stabilized, see   | 3022         | 3      |         |
|   |                              |                  |  | Epoxyethane, see   | 1040         | 2      |         |
|   |                              |                  |  | 1,2-EPOXY-3-ETHOXYPROPANE  | 2752         | 3      |         |
| Empty IBC, uncleaned  |                              |                  | See<br>4.1.1.11<br>of ADR,<br>5.1.3 and<br>5.4.1.1.6 | 2,3-Epoxy-1-propanal, see  | 2622         | 3      |         |
|   |                              |                  |  | 2,3-Epoxypropyl ethyl ether, see   | 2752         | 3      |         |
|   |                              |                  |  | ESTERS, N.O.S.   | 3272         | 3      |         |
| Empty large packaging, uncleaned  |                              |                  | See<br>4.1.1.11<br>of ADR,<br>5.1.3 and<br>5.4.1.1.6 | Ethanal, see   | 1089         | 3      |         |
|   |                              |                  |  | ETHANE   | 1035         | 2      |         |
|   |                              |                  |  | ETHANE, REFRIGERATED LIQUID  | 1961         | 2      |         |
| Empty MEGC, uncleaned   |                              |                  | See<br>4.3.2.4 of<br>ADR,<br>5.1.3 and<br>5.4.1.1.6  | Ethanethiol, see   | 2363         | 3      |         |
|   |                              |                  |  | ETHANOL  | 1170         | 3      |         |
| Empty packaging, uncleaned  |                              |                  | See<br>4.1.1.11<br>of ADR,<br>5.1.3 and<br>5.4.1.1.6 | ETHANOL AND GASOLINE MIXTURE or ETHANOL AND MOTOR SPIRIT MIXTURE or ETHANOL AND PETROL MIXTURE, with more than 10% ethanol | 3475         | 3      |         |
|   |                              |                  |  | ETHANOL SOLUTION   | 1170         | 3      |         |
| Empty receptacle, uncleaned   |                              |                  | See 5.1.3<br>and<br>5.4.1.1.6                        | ETHANOLAMINE   | 2491         | 8      |         |
|   |                              |                  |  | ETHANOLAMINE SOLUTION  | 2491         | 8      |         |
| Empty tank, uncleaned   |                              |                  | See<br>4.3.2.4 of<br>ADR,<br>5.1.3 and<br>5.4.1.1.6  | Ether, see   | 1155         | 3      |         |
|   |                              |                  |  | ETHERS, N.O.S.   | 3271         | 3      |         |
|   |                              |                  |  | 2-Ethoxyethanol, see   | 1171         | 3      |         |
| Empty vehicle, uncleaned  |                              |                  | See 5.1.3<br>and<br>5.4.1.1.6                        | 2-Ethoxyethyl acetate, see   | 1172         | 3      |         |
|   |                              |                  |  | Ethoxy propane-1, see  | 2615         | 3      |         |
| Enamel, see   | 1263<br>3066<br>3469<br>3470 | 3<br>8<br>3<br>8 |  | ETHYL ACETATE  | 1173         | 3      |         |
| Engines, internal combustion  | 3166                         | 9                | Not<br>subject to<br>ADN                             | ETHYLACETYLENE,<br>STABILIZED  | 2452         | 2      |         |

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| ETHYL ACRYLATE, STABILIZED   | 1917   | 3     |         | ETHYLENE, ACETYLENE AND PROPYLENE MIXTURE, REFRIGERATED LIQUID                                       | 3138   | 2     |         |
| ETHYL ALCOHOL, see   | 1170   | 3     |         | containing at least 71.5% ethylene with not more than 22.5% acetylene and not more than 6% propylene |        |       |         |
| ETHYL ALCOHOL SOLUTION, see  | 1170   | 3     |         |  |        |       |         |
| ETHYLAMINE   | 1036   | 2     |         | ETHYLENE CHLOROHYDRIN  | 1135   | 6.1   |         |
| ETHYLAMINE, AQUEOUS SOLUTION with not less than 50% but not more than 70% ethylamine | 2270   | 3     |         | ETHYLENE   | 1962   | 2     |         |
|  |        |       |         | ETHYLENEDIAMINE  | 1604   | 8     |         |
| ETHYL AMYL KETONE  | 2271   | 3     |         | ETHYLENE DIBROMIDE   | 1605   | 6.1   |         |
| N-ETHYLANILINE   | 2272   | 6.1   |         | Ethylene dibromide and methyl bromide, liquid mixture, see   | 1647   | 6.1   |         |
| 2-ETHYLANILINE   | 2273   | 6.1   |         |  |        |       |         |
| ETHYLBENZENE   | 1175   | 3     |         | ETHYLENE DICHLORIDE  | 1184   | 3     |         |
| N-ETHYL-N-BENZYLANILINE  | 2274   | 6.1   |         | ETHYLENE GLYCOL DIETHYL ETHER  | 1153   | 3     |         |
| N-ETHYLBENZYL TOLUIDINES, LIQUID   | 2753   | 6.1   |         | ETHYLENE GLYCOL MONOETHYL ETHER  | 1171   | 3     |         |
| N-ETHYLBENZYL TOLUIDINES, SOLID  | 3460   | 6.1   |         | ETHYLENE GLYCOL MONOETHYL ETHER ACETATE  | 1172   | 3     |         |
| ETHYL BORATE   | 1176   | 3     |         | ETHYLENE GLYCOL MONOMETHYL ETHER   | 1188   | 3     |         |
| ETHYL BROMIDE  | 1891   | 6.1   |         |  |        |       |         |
| ETHYL BROMOACETATE   | 1603   | 6.1   |         | ETHYLENE GLYCOL MONOMETHYL ETHER ACETATE   | 1189   | 3     |         |
| 2-ETHYLBUTANOL   | 2275   | 3     |         |  |        |       |         |
| 2-ETHYLBUTYL ACETATE   | 1177   | 3     |         | ETHYLENEIMINE, STABILIZED  | 1185   | 6.1   |         |
| ETHYL BUTYL ETHER  | 1179   | 3     |         | ETHYLENE OXIDE   | 1040   | 2     |         |
| 2-ETHYLBUTYRALDEHYDE   | 1178   | 3     |         | ETHYLENE OXIDE AND CARBON DIOXIDE MIXTURE with more than 87% ethylene oxide                          | 3300   | 2     |         |
| ETHYL BUTYRATE   | 1180   | 3     |         |  |        |       |         |
| ETHYL CHLORIDE   | 1037   | 2     |         | ETHYLENE OXIDE AND CARBON DIOXIDE MIXTURE with more than 9% but not more than 87% ethylene oxide     | 1041   | 2     |         |
| ETHYL CHLOROACETATE  | 1181   | 6.1   |         |  |        |       |         |
| Ethyl chlorocarbonate, see   | 1182   | 6.1   |         | ETHYLENE OXIDE AND CARBON DIOXIDE MIXTURE with not more than 9% ethylene oxide                       | 1952   | 2     |         |
| ETHYL CHLOROFORMATE  | 1182   | 6.1   |         |  |        |       |         |
| ETHYL 2-CHLOROPROPIONATE   | 2935   | 3     |         | ETHYLENE OXIDE AND CHLOROTETRAFLUOROETHANE MIXTURE with not more than 8.8% ethylene oxide            | 3297   | 2     |         |
| Ethyl-alpha-chloropropionate, see  | 2935   | 3     |         |  |        |       |         |
| ETHYL CHLOROTHIOFORMATE  | 2826   | 8     |         |  |        |       |         |
| ETHYL CROTONATE  | 1862   | 3     |         | ETHYLENE OXIDE AND DICHLORODIFLUOROMETHANE MIXTURE with not more than 12.5% ethylene oxide           | 3070   | 2     |         |
| ETHYLDICHLOROARSINE  | 1892   | 6.1   |         |  |        |       |         |
| ETHYLDICHLOROSILANE  | 1183   | 4.3   |         |  |        |       |         |

| Name and description  | UN No. | Class | Remarks | Name and description  | UN No.                       | Class            | Remarks |
|---|--------|-------|---------|---|------------------------------|------------------|---------|
| ETHYLENE OXIDE AND PENTAFLUOROETHANE MIXTURE with not more than 7.9% ethylene oxide | 3298   | 2     |         | Ethyl sulphate, see   | 1594                         | 6.1              |         |
| ETHYLENE OXIDE AND PROPYLENE OXIDE MIXTURE, not more than 30% ethylene oxide        | 2983   | 3     |         | N-ETHYLTOLUIDINES   | 2754                         | 6.1              |         |
| ETHYLENE OXIDE AND TETRAFLUOROETHANE MIXTURE with not more than 5.6% ethylene oxide | 3299   | 2     |         | ETHYLTRICHLOROSILANE  | 1196                         | 3                |         |
| ETHYLENE OXIDE WITH NITROGEN up to a total pressure of 1 MPa (10 bar) at 50 °C      | 1040   | 2     |         | EXPLOSIVE, BLASTING, TYPE A                                     | 0081                         | 1                |         |
| ETHYLENE, REFRIGERATED LIQUID   | 1038   | 2     |         | EXPLOSIVE, BLASTING, TYPE B                                     | 0082<br>0331                 | 1<br>1           |         |
| ETHYL ETHER, see  | 1155   | 3     |         | EXPLOSIVE, BLASTING, TYPE C                                     | 0083                         | 1                |         |
| ETHYL FLUORIDE  | 2453   | 2     |         | EXPLOSIVE, BLASTING, TYPE D                                     | 0084                         | 1                |         |
| ETHYL FORMATE   | 1190   | 3     |         | EXPLOSIVE, BLASTING, TYPE E                                     | 0241<br>0332                 | 1<br>1           |         |
| 2-ETHYLHEXYLAMINE   | 2276   | 3     |         | Explosives, emulsion, see                                       | 0241<br>0332                 | 1<br>1           |         |
| 2-ETHYLHEXYL CHLOROFORMATE  | 2748   | 6.1   |         | Explosive, seismic, see   | 0081<br>0082<br>0083<br>0331 | 1<br>1<br>1<br>1 |         |
| Ethylidene chloride, see  | 2362   | 3     |         | Explosive, slurry, see  | 0241<br>0332                 | 1<br>1           |         |
| ETHYL ISOBUTYRATE   | 2385   | 3     |         | Explosive, water gel, see                                       | 0241<br>0332                 | 1<br>1           |         |
| ETHYL ISOCYANATE  | 2481   | 3     |         | EXTRACTS, AROMATIC, LIQUID                                      | 1169                         | 3                |         |
| ETHYL LACTATE   | 1192   | 3     |         | EXTRACTS, FLAVOURING, LIQUID                                    | 1197                         | 3                |         |
| ETHYL MERCAPTAN   | 2363   | 3     |         | FABRICS, ANIMAL, N.O.S. with oil                                | 1373                         | 4.2              |         |
| ETHYL METHACRYLATE, STABILIZED  | 2277   | 3     |         | FABRICS IMPREGNATED WITH WEAKLY NITRATED NITROCELLULOSE, N.O.S. | 1353                         | 4.1              |         |
| ETHYL METHYL ETHER  | 1039   | 2     |         | FABRICS, SYNTHETIC, N.O.S. with oil                             | 1373                         | 4.2              |         |
| ETHYL METHYL KETONE   | 1193   | 3     |         | FABRICS, VEGETABLE, N.O.S. with oil                             | 1373                         | 4.2              |         |
| ETHYL NITRITE SOLUTION  | 1194   | 3     |         | FERRIC ARSENATE   | 1606                         | 6.1              |         |
| ETHYL ORTHOFORMATE  | 2524   | 3     |         | FERRIC ARSENITE   | 1607                         | 6.1              |         |
| ETHYL OXALATE   | 2525   | 6.1   |         | FERRIC CHLORIDE, ANHYDROUS                                      | 1773                         | 8                |         |
| ETHYLPHENYL-DICHLOROSILANE  | 2435   | 8     |         | FERRIC CHLORIDE SOLUTION  | 2582                         | 8                |         |
| 1-ETHYLPYPERIDINE   | 2386   | 3     |         | FERRIC NITRATE  | 1466                         | 5.1              |         |
| ETHYL PROPIONATE  | 1195   | 3     |         | FERROCERIUM   | 1323                         | 4.1              |         |
| ETHYL PROPYL ETHER  | 2615   | 3     |         |   |                              |                  |         |
| Ethyl silicate, see   | 1292   | 3     |         |   |                              |                  |         |

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|--|--------|-------|--------------------|---|--|-------|---------------------|
| FERROSILICON with 30% or more but less than 90% silicon                          | 1408   | 4.3   |                    | FIRELIGHTERS, SOLID with flammable liquid     | 2623                                       | 4.1   |                     |
| FERROUS ARSENATE   | 1608   | 6.1   |                    | FIREWORKS                                     | 0333                                       | 1     | See<br>2.2.1.1.7    |
| FERROUS METAL BORINGS in a form liable to self-heating                           | 2793   | 4.2   |                    |   | 0334                                       | 1     |                     |
|  |        |       |                    |   | 0335                                       | 1     |                     |
|  |        |       |                    |   | 0336                                       | 1     |                     |
| FERROUS METAL CUTTINGS in a form liable to self-heating                          | 2793   | 4.2   |                    |   | 0337                                       | 1     |                     |
| FERROUS METAL SHAVINGS in a form liable to self-heating                          | 2793   | 4.2   |                    | FIRST AID KIT                                 | 3316                                       | 9     |                     |
| FERROUS METAL TURNINGS in a form liable to self-heating                          | 2793   | 4.2   |                    | FISH MEAL, STABILIZED                         | 2216                                       | 9     |                     |
| FERTILIZER AMMONIATING SOLUTION with free ammonia                                | 1043   | 2     |                    | FISH MEAL, UNSTABILIZED                       | 1374                                       | 4.2   |                     |
| Fertilizer with ammonium nitrate, n.o.s., see                                    | 2067   | 5.1   |                    | FISH SCRAP, STABILIZED, see                   | 2216                                       | 9     |                     |
| Fibres, animal, burnt wet or damp  | 1372   | 4.2   | Not subject to ADN | FISH SCRAP, UNSTABILIZED, see                 | 1374                                       | 4.2   |                     |
| FIBRES, ANIMAL, N.O.S. with oil  | 1373   | 4.2   |                    |   | Flammable gas in lighters, see             | 1057  | 2                   |
| FIBRES IMPREGNATED WITH WEAKLY NITRATED NITROCELLULOSE, N.O.S.                   | 1353   | 4.1   |                    | FLAMMABLE LIQUID, N.O.S                       | 1993                                       | 3     |                     |
| FIBRES, SYNTHETIC, N.O.S. with oil   | 1373   | 4.2   |                    | FLAMMABLE LIQUID, N.O.S.                      | 2924                                       | 3     |                     |
| Fibres, vegetable, burnt wet or damp   | 1372   | 4.2   | Not subject to ADN | FLAMMABLE LIQUID, TOXIC, N.O.S.               | 1992                                       | 3     |                     |
| Fibres, vegetable, dry   | 3360   | 4.1   |                    |   | FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S. | 3286  | 3                   |
| FIBRES, VEGETABLE, N.O.S. with oil   | 1373   | 4.2   |                    | FLAMMABLE SOLID, CORROSIVE, INORGANIC, N.O.S. | 3180                                       | 4.1   |                     |
| Filler, liquid, see  | 1263   | 3     |                    | FLAMMABLE SOLID, CORROSIVE, ORGANIC, N.O.S.   | 2925                                       | 4.1   |                     |
|  | 3066   | 8     |                    | FLAMMABLE SOLID, INORGANIC, N.O.S.            | 3178                                       | 4.1   |                     |
|  | 3469   | 3     |                    | FLAMMABLE SOLID, ORGANIC, N.O.S.              | 3176                                       | 4.1   |                     |
|  | 3470   | 8     |                    | FLAMMABLE SOLID, TOXIC, OXIDIZING, N.O.S.     | 3097                                       | 4.1   | Carriage prohibited |
| Films, nitrocellulose base, from which gelatin has been removed; film scrap, see | 2002   | 4.2   |                    | FLAMMABLE SOLID, TOXIC, INORGANIC, N.O.S.     | 3179                                       | 4.1   |                     |
| FILMS, NITROCELLULOSE BASE, gelatin coated, except scrap                         | 1324   | 4.1   |                    | FLAMMABLE SOLID, TOXIC, ORGANIC, N.O.S.       | 2926                                       | 4.1   |                     |
| FIRE EXTINGUISHER CHARGES, corrosive liquid                                      | 1774   | 8     |                    | FLARES, AERIAL                                | 0093                                       | 1     |                     |
| Fire extinguisher charges, expelling, explosive, see                             | 0275   | 1     |                    |   | 0403                                       | 1     |                     |
|  | 0276   | 1     |                    |   | 0404                                       | 1     |                     |
|  | 0323   | 1     |                    |   | 0420                                       | 1     |                     |
|  | 0381   | 1     |                    |   | 0421                                       | 1     |                     |
| FIRE EXTINGUISHERS with compressed or liquefied gas                              | 1044   | 2     |                    |   |  |       |                     |

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|---|--------|-------|---------|--|--------|-------|---------|
| Flares, aeroplane, see                                    | 0093   | 1     |         | Formalin, see  | 1198   | 3     |         |
|   | 0403   | 1     |         |  | 2209   | 8     |         |
|   | 0404   | 1     |         |  |        |       |         |
|   | 0420   | 1     |         | Formamidine sulphinic acid, see                                | 3341   | 4.2   |         |
|   | 0421   | 1     |         |  |        |       |         |
| Flares, highway,  | 0191   | 1     |         | FORMIC ACID with more than 85% acid by mass                    | 1779   | 8     |         |
| Flares, distress, small,                                  | 0373   | 1     |         | FORMIC ACID with not more than 85% acid by mass                | 3412   | 8     |         |
| Flares, railway or highway, see                           |        |       |         | Formic aldehyde, see   | 1198   | 3     |         |
| FLARES, SURFACE   | 0092   | 1     |         |  | 2209   | 8     |         |
|   | 0418   | 1     |         |  |        |       |         |
|   | 0419   | 1     |         | 2-Formyl-3,4-dihydro-2H-pyran, see                             | 2607   | 3     |         |
| Flares, water-activated, see                              | 0248   | 1     |         | FRACTURING DEVICES, EXPLOSIVE without detonator, for oil wells | 0099   | 1     |         |
|   | 0249   | 1     |         |  |        |       |         |
| FLASH POWDER  | 0094   | 1     |         | FUEL, AVIATION, TURBINE ENGINE                                 | 1863   | 3     |         |
|   | 0305   | 1     |         |  |        |       |         |
| Flue dusts, toxic, see                                    | 1562   | 6.1   |         | FUEL CELL CARTRIDGES   | 3478   | 2     |         |
| Fluoric acid, see   | 1790   | 8     |         |  | 3479   | 2     |         |
|   |        |       |         |  | 3473   | 3     |         |
| FLUORINE, COMPRESSED                                      | 1045   | 2     |         |  | 3476   | 4.3   |         |
|   |        |       |         |  | 3477   | 8     |         |
| FLUOROACETIC ACID   | 2642   | 6.1   |         | FUEL CELL CARTRIDGES CONTAINED IN EQUIPMENT                    | 3478   | 2     |         |
| FLUOROANILINES  | 2941   | 6.1   |         |  | 3479   | 2     |         |
|   |        |       |         |  | 3473   | 3     |         |
| 2-Fluoroaniline, see                                      | 2941   | 6.1   |         |  | 3476   | 4.3   |         |
|   |        |       |         |  | 3477   | 8     |         |
| 4-Fluoroaniline, see                                      | 2941   | 6.1   |         | FUEL CELL CARTRIDGES PACKED WITH EQUIPMENT                     | 3478   | 2     |         |
|   |        |       |         |  | 3479   | 2     |         |
| o-Fluoroaniline, see                                      | 2941   | 6.1   |         |  | 3473   | 3     |         |
|   |        |       |         |  | 3476   | 4.3   |         |
| p-Fluoroaniline, see                                      | 2941   | 6.1   |         |  | 3477   | 8     |         |
|   |        |       |         |  |        |       |         |
| FLUOROBENZENE   | 2387   | 3     |         | Fumaroyl dichloride, see                                       | 1780   | 3     |         |
| FLUOROBORIC ACID  | 1775   | 8     |         | FUMARYL CHLORIDE   | 1780   | 8     |         |
| Fluoroethane, see   | 2453   | 2     |         | FUMIGATED UNIT   | 3359   | 9     |         |
| Fluoroform, see   | 1984   | 2     |         | FURALDEHYDES   | 1199   | 6.1   |         |
| Fluoromethane, see  | 2454   | 2     |         | FURAN  | 2389   | 3     |         |
| FLUOROPHOSPHORIC ACID, ANHYDROUS                          | 1776   | 8     |         | FURFURYL ALCOHOL   | 2874   | 6.1   |         |
| FLUOROSILICATES, N.O.S.                                   | 2856   | 6.1   |         | FURFURYLAMINE  | 2526   | 3     |         |
| FLUOROSILICIC ACID  | 1778   | 8     |         | Furyl carbinol, see  | 2874   | 6.1   |         |
| FLUOROSULPHONIC ACID                                      | 1777   | 8     |         | FUSE, DETONATING, metal clad                                   | 0102   | 1     |         |
|   |        |       |         |  | 0290   | 1     |         |
| FLUOROTOLUENES  | 2388   | 3     |         | FUSE, DETONATING, MILD EFFECT, metal clad                      | 0104   | 1     |         |
| FORMALDEHYDE SOLUTION with not less than 25% formaldehyde | 2209   | 8     |         | FUSE, IGNITER, tubular, metal clad                             | 0103   | 1     |         |
| FORMALDEHYDE SOLUTION, FLAMMABLE                          | 1198   | 3     |         | FUSE, NON-DETONATING   | 0101   | 1     |         |
|   |        |       |         | FUSEL OIL  | 1201   | 3     |         |



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|--|--------|-------|---------|--|--------|-------|---------|
| FUSE, SAFETY   | 0105   | 1     |         | GENETICALLY MODIFIED MICROORGANISMS  | 3245   | 9     |         |
| Fuze, combination, percussion or time, see                                     | 0106   | 1     |         |  |        |       |         |
|  | 0107   | 1     |         | GENETICALLY MODIFIED ORGANISMS   | 3245   | 9     |         |
|  | 0257   | 1     |         |  |        |       |         |
|  | 0316   | 1     |         |  |        |       |         |
|  | 0317   | 1     |         | GERMANE  | 2192   | 2     |         |
|  | 0367   | 1     |         |  |        |       |         |
|  | 0368   | 1     |         | Germanium hydride, see   | 2192   | 2     |         |
| FUZES, DETONATING  | 0106   | 1     |         | Glycer-1,3-dichlorohydrin, see   | 2750   | 6.1   |         |
|  | 0107   | 1     |         |  |        |       |         |
|  | 0257   | 1     |         | GLYCEROL alpha-MONOCHLOROHYDRIN  | 2689   | 6.1   |         |
|  | 0367   | 1     |         |  |        |       |         |
| FUZES, DETONATING with protective features                                     | 0408   | 1     |         | Glyceryl trinitrate, see   | 0143   | 1     |         |
|  | 0409   | 1     |         |  | 0144   | 1     |         |
|  | 0410   | 1     |         |  | 1204   | 3     |         |
|  |        |       |         |  | 3064   | 3     |         |
| FUZES, IGNITING  | 0316   | 1     |         |  |        |       |         |
|  | 0317   | 1     |         | GLYCIDALDEHYDE   | 2622   | 3     |         |
|  | 0368   | 1     |         |  |        |       |         |
| GALLIUM  | 2803   | 8     |         | GRENADES, hand or rifle, with bursting charge  | 0284   | 1     |         |
|  |        |       |         |  | 0285   | 1     |         |
|  |        |       |         |  | 0292   | 1     |         |
| GAS CARTRIDGES without a release device, non-refillable, see                   | 2037   | 2     |         |  | 0293   | 1     |         |
| Gas drips, hydrocarbon, see  | 3295   | 3     |         | Grenades, illuminating, see  | 0171   | 1     |         |
|  |        |       |         |  | 0254   | 1     |         |
|  |        |       |         |  | 0297   | 1     |         |
| GAS OIL  | 1202   | 3     |         |  |        |       |         |
| GASOLINE   | 1203   | 3     |         | GRENADES, PRACTICE, hand or rifle  | 0110   | 1     |         |
|  |        |       |         |  | 0318   | 1     |         |
|  |        |       |         |  | 0372   | 1     |         |
| Gasoline and ethanol mixture, with more than 10% ethanol, see                  | 3475   | 3     |         |  | 0452   | 1     |         |
| Gasoline, casinghead, see  | 1203   | 3     |         | Grenades, smoke, see   | 0015   | 1     |         |
|  |        |       |         |  | 0016   | 1     |         |
|  |        |       |         |  | 0245   | 1     |         |
| GAS, REFRIGERATED LIQUID, N.O.S.   | 3158   | 2     |         |  | 0246   | 1     |         |
|  |        |       |         |  | 0303   | 1     |         |
| GAS, REFRIGERATED LIQUID, FLAMMABLE, N.O.S.                                    | 3312   | 2     |         | GUANIDINE NITRATE  | 1467   | 5.1   |         |
| GAS, REFRIGERATED LIQUID, OXIDIZING, N.O.S.                                    | 3311   | 2     |         | GUANYLNITROSAMINO-GUANYLIDENE HYDRAZINE, WETTED with not less than 30% water, by mass                            | 0113   | 1     |         |
| GAS SAMPLE, NON-PRESSURIZED, FLAMMABLE, N.O.S., not refrigerated liquid        | 3167   | 2     |         | GUANYLNITROSAMINO-GUANYLTETRAZENE, WETTED with not less than 30% water, or mixture of alcohol and water, by mass | 0114   | 1     |         |
| GAS SAMPLE, NON-PRESSURIZED, TOXIC, N.O.S., not refrigerated liquid            | 3169   | 2     |         |  |        |       |         |
| GAS SAMPLE, NON-PRESSURIZED, TOXIC, FLAMMABLE, N.O.S., not refrigerated liquid | 3168   | 2     |         | GUNPOWDER, COMPRESSED, see   | 0028   | 1     |         |
|  |        |       |         |  |        |       |         |
|  |        |       |         | GUNPOWDER, granular or as a meal, see  | 0027   | 1     |         |
| Gelatin, blasting, see   | 0081   | 1     |         | GUNPOWDER, IN PELLETS, see   | 0028   | 1     |         |
| Gelatin, dynamites, see  | 0081   | 1     |         | Gutta percha solution, see   | 1287   | 3     |         |

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|---|--------|-------|--------------------|--|--------|-------|---------|
| HAFNIUM POWDER, DRY                                 | 2545   | 4.2   |                    | HEXAFLUOROETHANE   | 2193   | 2     |         |
| HAFNIUM POWDER, WETTED with not less than 25% water | 1326   | 4.1   |                    | HEXAFLUOROPHOSPHORIC ACID  | 1782   | 8     |         |
| Hay   | 1327   | 4.1   | Not subject to ADN | HEXAFLUOROPROPYLENE  | 1858   | 2     |         |
|   |        |       |                    | Hexahydrocresol, see   | 2617   | 3     |         |
| HEATING OIL, LIGHT                                  | 1202   | 3     |                    | Hexahydromethyl phenol, see  | 2617   | 3     |         |
| Heavy hydrogen, see                                 | 1957   | 2     |                    | HEXALDEHYDE  | 1207   | 3     |         |
| HELIUM, COMPRESSED                                  | 1046   | 2     |                    | HEXAMETHYLENEDIAMINE, SOLID  | 2280   | 8     |         |
| HELIUM, REFRIGERATED LIQUID                         | 1963   | 2     |                    | HEXAMETHYLENEDIAMINE SOLUTION  | 1783   | 8     |         |
| HEPTAFLUOROPROPANE                                  | 3296   | 2     |                    | HEXAMETHYLENE DIISOCYANATE   | 2281   | 6.1   |         |
| n-HEPTALDEHYDE                                      | 3056   | 3     |                    | HEXAMETHYLENEIMINE   | 2493   | 3     |         |
| n-Heptanal, see                                     | 3056   | 3     |                    | HEXAMETHYLENETETRAMINE   | 1328   | 4.1   |         |
| HEPTANES  | 1206   | 3     |                    | Hexamine, see  | 1328   | 4.1   |         |
| 4-Heptanone, see                                    | 2710   | 3     |                    | HEXANES  | 1208   | 3     |         |
| n-HEPTENE   | 2278   | 3     |                    | HEXANITRODIPHENYL-AMINE  | 0079   | 1     |         |
| HEXACHLOROACETONE                                   | 2661   | 6.1   |                    | HEXANITROSTILBENE  | 0392   | 1     |         |
| HEXACHLOROBENZENE                                   | 2729   | 6.1   |                    | Hexanoic acid, see   | 2829   | 8     |         |
| HEXACHLOROBUTADIENE                                 | 2279   | 6.1   |                    | HEXANOLS   | 2282   | 3     |         |
| Hexachloro-1,3-butadiene, see                       | 2279   | 6.1   |                    | 1-HEXENE   | 2370   | 3     |         |
| HEXACHLOROCYCLO-PENTADIENE                          | 2646   | 6.1   |                    | HEXOGEN AND CYCLOTETRA-METHYLENE-TETRANITRAMINE MIXTURE, WETTED with not less than 15% water, by mass or DESENSITIZED with not less than 10% phlegmatizer by mass, see | 0391   | 1     |         |
| HEXACHLOROPHENE                                     | 2875   | 6.1   |                    | HEXOGEN, DESENSITIZED, see   | 0483   | 1     |         |
| Hexachloro-2-propanone, see                         | 2661   | 6.1   |                    | HEXOGEN, WETTED with not less than 15% water, by mass, see   | 0072   | 1     |         |
| HEXADECYLTRICHLORO-SILANE                           | 1781   | 8     |                    | HEXOLITE, dry or wetted with less than 15% water, by mass  | 0118   | 1     |         |
| HEXADIENES  | 2458   | 3     |                    | HEXOTOL, dry or wetted with less than 15% water, by mass, see  | 0118   | 1     |         |
| HEXAETHYL TETRAPHOSPHATE                            | 1611   | 6.1   |                    | HEXOTONAL  | 0393   | 1     |         |
| HEXAETHYL TETRAPHOSPHATE AND COMPRESSED GAS MIXTURE | 1612   | 2     |                    | HEXOTONAL, cast, see   | 0393   | 1     |         |
| HEXAFLUOROACETONE                                   | 2420   | 2     |                    | HEXYL, see   | 0079   | 1     |         |
| HEXAFLUOROACETONE HYDRATE, LIQUID                   | 2552   | 6.1   |                    |  |        |       |         |
| HEXAFLUOROACETONE HYDRATE, SOLID                    | 3436   | 6.1   |                    |  |        |       |         |

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|---|--------|-------|---------|---|--------|-------|---------------------|
| HEXYLTRICHLOROSILANE  | 1784   | 8     |         | HYDROGEN AND METHANE MIXTURE, COMPRESSED  | 2034   | 2     |                     |
| HMX, see  | 0391   | 1     |         | Hydrogen arsenide, see  | 2188   | 2     |                     |
| HMX, DESENSITIZED, see  | 0484   | 1     |         | HYDROGEN BROMIDE, ANHYDROUS   | 1048   | 2     |                     |
| HMX, WETTED with not less than 15% water, by mass, see  | 0226   | 1     |         | Hydrogen bromide solution, see  | 1788   | 8     |                     |
| HYDRAZINE, ANHYDROUS  | 2029   | 8     |         | HYDROGEN CHLORIDE, ANHYDROUS  | 1050   | 2     |                     |
| HYDRAZINE AQUEOUS SOLUTION, with more than 37% hydrazine by mass                                | 2030   | 8     |         | HYDROGEN CHLORIDE, REFRIGERATED LIQUID  | 2186   | 2     | Carriage prohibited |
| HYDRAZINE, AQUEOUS SOLUTION with not more than 37% hydrazine, by mass                           | 3293   | 6.1   |         | HYDROGEN, COMPRESSED  | 1049   | 2     |                     |
| Hydrides, metal, water-reactive, n.o.s., see  | 1409   | 4.3   |         | HYDROGEN CYANIDE, AQUEOUS SOLUTION with not more than 20% hydrogen cyanide, see                     | 1613   | 6.1   |                     |
| Hydriodic acid, anhydrous, see  | 2197   | 2     |         | HYDROGEN CYANIDE, SOLUTION IN ALCOHOL with not more than 45% hydrogen cyanide                       | 3294   | 6.1   |                     |
| HYDRIODIC ACID  | 1787   | 8     |         | HYDROGEN CYANIDE, STABILIZED containing less than 3% water  | 1051   | 6.1   |                     |
| HYDROBROMIC ACID  | 1788   | 8     |         | HYDROGEN CYANIDE, STABILIZED, containing less than 3% water and absorbed in a porous inert material | 1614   | 6.1   |                     |
| HYDROCARBON GAS MIXTURE, COMPRESSED, N.O.S.   | 1964   | 2     |         | HYDROGENDIFLUORIDES, SOLID, N.O.S.  | 1740   | 8     |                     |
| HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S. such as mixtures A, A01, A02, A0, A1, B1, B2, B or C | 1965   | 2     |         | HYDROGENDIFLUORIDES SOLUTION, N.O.S.  | 3471   | 8     |                     |
| HYDROCARBON GAS REFILLS FOR SMALL DEVICES with release device                                   | 3150   | 2     |         | HYDROGEN FLUORIDE, ANHYDROUS  | 1052   | 8     |                     |
| HYDROCARBONS, LIQUID, N.O.S.  | 3295   | 3     |         | Hydrogen fluoride solution, see   | 1790   | 8     |                     |
| HYDROCHLORIC ACID   | 1789   | 8     |         | HYDROGEN IN A METAL HYDRIDE STORAGE SYSTEM  | 3468   | 2     |                     |
| HYDROCYANIC ACID, AQUEOUS SOLUTION with not more than 20% hydrogen cyanide                      | 1613   | 6.1   |         | HYDROGEN IN A METAL HYDRIDE STORAGE SYSTEM CONTAINED IN EQUIPMENT                                   | 3468   | 2     |                     |
| HYDROFLUORIC ACID with more than 60% but not more than 85% hydrogen fluoride                    | 1790   | 8     |         | HYDROGEN IN A METAL HYDRIDE STORAGE SYSTEM PACKED WITH EQUIPMENT                                    | 3468   | 2     |                     |
| HYDROFLUORIC ACID with more than 85% hydrogen fluoride  | 1790   | 8     |         | HYDROGEN IODIDE, ANHYDROUS  | 2197   | 2     |                     |
| HYDROFLUORIC ACID with not more than 60% hydrogen fluoride                                      | 1790   | 8     |         | Hydrogen iodide solution, see   | 1787   | 8     |                     |
| HYDROFLUORIC ACID AND SULPHURIC ACID MIXTURE  | 1786   | 8     |         |   |        |       |                     |
| Hydrofluoroboric acid, see  | 1775   | 8     |         |   |        |       |                     |
| Hydrofluorosilicic acid, see  | 1778   | 8     |         |   |        |       |                     |

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| HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE with acid(s), water and not more than 5% peroxyacetic acid, STABILIZED       | 3149   | 5.1   |         | IGNITERS  | 0121   | 1     |         |
|  |        |       |         |   | 0314   | 1     |         |
|  |        |       |         |   | 0315   | 1     |         |
|  |        |       |         |   | 0325   | 1     |         |
|  |        |       |         |   | 0454   | 1     |         |
| HYDROGEN PEROXIDE, AQUEOUS SOLUTION with not less than 8% but less than 20% hydrogen peroxide (stabilized as necessary)      | 2984   | 5.1   |         | 3,3'-IMINODIPROPYLAMINE                               | 2269   | 8     |         |
|  |        |       |         | India rubber, see                                     | 1287   | 3     |         |
| HYDROGEN PEROXIDE, AQUEOUS SOLUTION with not less than 20% but not more than 60% hydrogen peroxide (stabilized as necessary) | 2014   | 5.1   |         | INFECTIOUS SUBSTANCE, AFFECTING ANIMALS only          | 2900   | 6.2   |         |
|  |        |       |         | INFECTIOUS SUBSTANCE, AFFECTING HUMANS                | 2814   | 6.2   |         |
| HYDROGEN PEROXIDE, AQUEOUS SOLUTION, STABILIZED with more than 60% hydrogen peroxide and not more than 70% hydrogen peroxide | 2015   | 5.1   |         | Ink, printer's, flammable, see                        | 1210   | 3     |         |
|  |        |       |         | INSECTICIDE GAS, N.O.S.                               | 1968   | 2     |         |
| HYDROGEN PEROXIDE, AQUEOUS SOLUTION, STABILIZED with more than 70% hydrogen peroxide   | 2015   | 5.1   |         | INSECTICIDE GAS, FLAMMABLE, N.O.S.                    | 3354   | 2     |         |
|  |        |       |         | INSECTICIDE GAS, TOXIC, N.O.S.                        | 1967   | 2     |         |
| HYDROGEN, REFRIGERATED LIQUID  | 1966   | 2     |         | INSECTICIDE GAS, TOXIC, FLAMMABLE, N.O.S.             | 3355   | 2     |         |
| HYDROGEN SELENIDE, ANHYDROUS   | 2202   | 2     |         | IODINE MONOCHLORIDE                                   | 1792   | 8     |         |
| Hydrogen silicide, see   | 2203   | 2     |         | IODINE PENTAFLUORIDE                                  | 2495   | 5.1   |         |
|  |        |       |         | 2-IODOBUTANE  | 2390   | 3     |         |
| HYDROGEN SULPHIDE  | 1053   | 2     |         | Iodomethane, see                                      | 2644   | 6.1   |         |
| Hydroselenic acid, see   | 2202   | 2     |         | IODOMETHYLPROPANES                                    | 2391   | 3     |         |
| Hydrosilicofluoric acid, see   | 1778   | 8     |         | IODOPROPANES  | 2392   | 3     |         |
|  |        |       |         | alpha-Iodotoluene, see                                | 2653   | 6.1   |         |
| 1-HYDROXYBENZOTRIAZOLE, ANHYDROUS, dry or wetted with less than 20% water, by mass   | 0508   | 1     |         | I.p.d.i., see   | 2290   | 6.1   |         |
| 1-HYDROXYBENZOTRIAZOLE, ANHYDROUS, WETTED with not less than 20% water, by mass  | 3474   | 4.1   |         | Iron chloride, anhydrous, see                         | 1773   | 8     |         |
|  |        |       |         | Iron (III) chloride, anhydrous, see                   | 1773   | 8     |         |
| 3-Hydroxybutan-2-one, see  | 2621   | 3     |         | Iron chloride solution, see                           | 2582   | 8     |         |
| HYDROXYLAMINE SULPHATE   | 2865   | 8     |         | IRON OXIDE, SPENT obtained from coal gas purification | 1376   | 4.2   |         |
| 1-Hydroxy-3-methyl-2-penten-4-yne, see   | 2705   | 8     |         | IRON PENTACARBONYL                                    | 1994   | 6.1   |         |
| 3-Hydroxyphenol, see   | 2876   | 6.1   |         | Iron perchloride, anhydrous, see                      | 1773   | 8     |         |
|  |        |       |         | Iron powder, pyrophoric, see                          | 1383   | 4.2   |         |
| HYPOCHLORITES, INORGANIC, N.O.S.   | 3212   | 5.1   |         | Iron sesquichloride, anhydrous, see                   | 1773   | 8     |         |
| HYPOCHLORITE SOLUTION  | 1791   | 8     |         |   |        |       |         |

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| IRON SPONGE, SPENT obtained from coal gas purification       | 1376   | 4.2   |         | Isododecane, see                      | 2286   | 3     |         |
| Iron swarf, see  | 2793   | 4.2   |         | ISOHEPTENE                            | 2287   | 3     |         |
| ISOBUTANE  | 1969   | 2     |         | ISOHEXENE                             | 2288   | 3     |         |
| ISOBUTANOL   | 1212   | 3     |         | Isooctane, see                        | 1262   | 3     |         |
| Isobutene, see   | 1055   | 2     |         | ISOOCTENE                             | 1216   | 3     |         |
| ISOBUTYL ACETATE   | 1213   | 3     |         | Isopentane, see                       | 1265   | 3     |         |
| ISOBUTYL ACRYLATE, STABILIZED                                | 2527   | 3     |         | ISOPENTENES                           | 2371   | 3     |         |
| ISOBUTYL ALCOHOL, see  | 1212   | 3     |         | Isopentylamine, see                   | 1106   | 3     |         |
| ISOBUTYL ALDEHYDE, see                                       | 2045   | 3     |         | Isopentyl nitrite, see                | 1113   | 3     |         |
| ISOBUTYLAMINE  | 1214   | 3     |         | ISOPHORONEDIAMINE                     | 2289   | 8     |         |
| ISOBUTYLENE  | 1055   | 2     |         | ISOPHORONE DIISOCYANATE               | 2290   | 6.1   |         |
| ISOBUTYL FORMATE   | 2393   | 3     |         | ISOPRENE, STABILIZED                  | 1218   | 3     |         |
| ISOBUTYL ISOBUTYRATE   | 2528   | 3     |         | ISOPROPANOL                           | 1219   | 3     |         |
| ISOBUTYL ISOCYANATE  | 2486   | 3     |         | ISOPROPENYL ACETATE                   | 2403   | 3     |         |
| ISOBUTYL METHACRYLATE, STABILIZED                            | 2283   | 3     |         | ISOPROPENYLBENZENE                    | 2303   | 3     |         |
| ISOBUTYL PROPIONATE  | 2394   | 3     |         | ISOPROPYL ACETATE                     | 1220   | 3     |         |
| ISOBUTYRALDEHYDE   | 2045   | 3     |         | ISOPROPYL ACID PHOSPHATE              | 1793   | 8     |         |
| ISOBUTYRIC ACID  | 2529   | 3     |         | ISOPROPYL ALCOHOL, see                | 1219   | 3     |         |
| ISOBUTYRONITRILE   | 2284   | 3     |         | ISOPROPYLAMINE                        | 1221   | 3     |         |
| ISOBUTYRYL CHLORIDE  | 2395   | 3     |         | ISOPROPYLBENZENE                      | 1918   | 3     |         |
| ISOCYANATES, FLAMMABLE, TOXIC, N.O.S.                        | 2478   | 3     |         | ISOPROPYL BUTYRATE                    | 2405   | 3     |         |
| ISOCYANATES, TOXIC, N.O.S.                                   | 2206   | 6.1   |         | Isopropyl chloride, see               | 2356   | 3     |         |
| ISOCYANATES, TOXIC, FLAMMABLE, N.O.S.                        | 3080   | 6.1   |         | ISOPROPYL CHLOROACETATE               | 2947   | 3     |         |
| ISOCYANATE SOLUTION, FLAMMABLE, TOXIC, N.O.S.                | 2478   | 3     |         | ISOPROPYL CHLOROFORMATE               | 2407   | 6.1   |         |
| ISOCYANATE SOLUTION, TOXIC, N.O.S.                           | 2206   | 6.1   |         | ISOPROPYL 2-CHLORO-PROPIONATE         | 2934   | 3     |         |
| ISOCYANATE SOLUTION, TOXIC, FLAMMABLE, N.O.S.                | 3080   | 6.1   |         | Isopropyl-alpha-chloropropionate, see | 2934   | 3     |         |
| ISOCYANATO-BENZOTRIFLUORIDES                                 | 2285   | 6.1   |         | Isopropyl ether, see                  | 1159   | 3     |         |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, see | 2290   | 6.1   |         | Isopropylethylene, see                | 2561   | 3     |         |
|  |        |       |         | Isopropyl formate, see                | 1281   | 3     |         |
|  |        |       |         | ISOPROPYL ISOBUTYRATE                 | 2406   | 3     |         |
|  |        |       |         | ISOPROPYL ISOCYANATE                  | 2483   | 3     |         |
|  |        |       |         | Isopropyl mercaptan, see              | 2402   | 3     |         |

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| ISOPROPYL NITRATE  | 1222                         | 3                    |         | LEAD CYANIDE   | 1620         | 6.1        |         |
| ISOPROPYL PROPIONATE   | 2409                         | 3                    |         | Lead (II) cyanide  | 1620         | 6.1        |         |
| Isopropyltoluene, see  | 2046                         | 3                    |         | LEAD DIOXIDE   | 1872         | 5.1        |         |
| Isopropyltoluol, see   | 2046                         | 3                    |         | LEAD NITRATE   | 1469         | 5.1        |         |
| ISOSORBIDE DINITRATE MIXTURE with not less than 60% lactose, mannose, starch or calcium hydrogen phosphate | 2907                         | 4.1                  |         | Lead (II) nitrate  | 1469         | 5.1        |         |
| ISOSORBIDE-5-MONONITRATE   | 3251                         | 4.1                  |         | LEAD PERCHLORATE, SOLID  | 1470         | 5.1        |         |
| Isovaleraldehyde, see  | 2058                         | 3                    |         | LEAD PERCHLORATE, SOLUTION   | 3408         | 5.1        |         |
| JET PERFORATING GUNS, CHARGED, oil well, without detonator   | 0124<br>0494                 | 1<br>1               |         | Lead (II) perchlorate  | 1470<br>3408 | 5.1<br>5.1 |         |
| Jet tappers, without detonator, see  | 0059                         | 1                    |         | Lead peroxide, see   | 1872         | 5.1        |         |
| KEROSENE   | 1223                         | 3                    |         | LEAD PHOSPHITE, DIBASIC  | 2989         | 4.1        |         |
| KETONES, LIQUID, N.O.S.  | 1224                         | 3                    |         | LEAD STYPHNATE, WETTED with not less than 20% water, or mixture of alcohol and water, by mass                | 0130         | 1          |         |
| KRYPTON, COMPRESSED  | 1056                         | 2                    |         | LEAD SULPHATE with more than 3% free acid  | 1794         | 8          |         |
| KRYPTON, REFRIGERATED LIQUID   | 1970                         | 2                    |         | Lead tetraethyl, see   | 1649         | 6.1        |         |
| Lacquer, see   | 1263<br>3066<br>3469<br>3470 | 3<br>8<br>3<br>8     |         | Lead tetramethyl, see  | 1649         | 6.1        |         |
| Lacquer base, liquid, see  | 1263<br>3066<br>3469<br>3470 | 3<br>8<br>3<br>8     |         | LEAD TRINITRORESORCINATE, WETTED with not less than 20% water, or mixture of alcohol and water, by mass, see | 0130         | 1          |         |
| Lacquer base or lacquer chips, nitrocellulose, dry, see  | 2557                         | 4.1                  |         | LIFE-SAVING APPLIANCES NOT SELF-INFLATING containing dangerous goods as equipment                            | 3072         | 9          |         |
| Lacquer base or lacquer chips, plastic, wet with alcohol or solvent, see                                   | 1263<br>2059<br>2555<br>2556 | 3<br>3<br>4.1<br>4.1 |         | LIFE-SAVING APPLIANCES, SELF-INFLATING   | 2990         | 9          |         |
| LEAD ACETATE   | 1616                         | 6.1                  |         | LIGHTER REFILLS containing flammable gas   | 1057         | 2          |         |
| Lead (II) acetate, see   | 1616                         | 6.1                  |         | LIGHTERS containing flammable gas  | 1057         | 2          |         |
| LEAD ARSENATES   | 1617                         | 6.1                  |         | LIGHTERS, FUSE   | 0131         | 1          |         |
| LEAD ARSENITES   | 1618                         | 6.1                  |         | Limonene, inactive, see  | 2052         | 3          |         |
| LEAD AZIDE, WETTED with not less than 20% water, or mixture of alcohol and water, by mass                  | 0129                         | 1                    |         | LIQUEFIED GAS, N.O.S.  | 3163         | 2          |         |
| Lead chloride, solid, see  | 2291                         | 6.1                  |         | LIQUEFIED GAS, FLAMMABLE, N.O.S.   | 3161         | 2          |         |
| LEAD COMPOUND, SOLUBLE, N.O.S.   | 2291                         | 6.1                  |         | LIQUEFIED GASES, non-flammable, charged with nitrogen, carbon dioxide or air                                 | 1058         | 2          |         |

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| LIQUEFIED GAS, OXIDIZING, N.O.S.   | 3157   | 2     |         | LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT (including lithium alloy batteries) | 3091   | 9     |         |
| LIQUEFIED GAS, TOXIC, N.O.S.   | 3162   | 2     |         | LITHIUM BOROXYDRIDE   | 1413   | 4.3   |         |
| LIQUEFIED GAS, TOXIC, CORROSIVE, N.O.S.  | 3308   | 2     |         | LITHIUM FERROSILICON  | 2830   | 4.3   |         |
| LIQUEFIED GAS, TOXIC, FLAMMABLE, N.O.S.  | 3160   | 2     |         | LITHIUM HYDRIDE   | 1414   | 4.3   |         |
| LIQUEFIED GAS, TOXIC, FLAMMABLE, CORROSIVE, N.O.S.                                     | 3309   | 2     |         | LITHIUM HYDRIDE, FUSED SOLID  | 2805   | 4.3   |         |
| LIQUEFIED GAS, TOXIC, OXIDIZING, N.O.S.  | 3307   | 2     |         | LITHIUM HYDROXIDE   | 2680   | 8     |         |
| LIQUEFIED GAS, TOXIC, OXIDIZING, N.O.S.  | 3307   | 2     |         | LITHIUM HYDROXIDE SOLUTION  | 2679   | 8     |         |
| LIQUEFIED GAS, TOXIC, OXIDIZING, CORROSIVE, N.O.S.                                     | 3310   | 2     |         | LITHIUM HYPOCHLORITE, DRY   | 1471   | 5.1   |         |
| Liquefied petroleum gas, see   | 1075   | 2     |         | LITHIUM HYPOCHLORITE MIXTURE  | 1471   | 5.1   |         |
| Liquid filler, see   | 1263   | 3     |         | Lithium in cartouches, see  | 1415   | 4.3   |         |
|  | 3066   | 8     |         | LITHIUM NITRATE   | 2722   | 5.1   |         |
|  | 3469   | 3     |         | LITHIUM NITRIDE   | 2806   | 4.3   |         |
|  | 3470   | 8     |         | LITHIUM PEROXIDE  | 1472   | 5.1   |         |
| Liquid lacquer base, see   | 1263   | 3     |         | Lithium silicide, see   | 1417   | 4.3   |         |
|  | 3066   | 8     |         | LITHIUM SILICON   | 1417   | 4.3   |         |
|  | 3469   | 3     |         | Lithium alkyls, liquid, see   | 3394   | 4.2   |         |
|  | 3470   | 8     |         | Lithium alkyls, solid, see  | 3393   | 4.2   |         |
| LITHIUM  | 1415   | 4.3   |         | LONDON PURPLE   | 1621   | 6.1   |         |
| Lithium alkyls, liquid, see  | 3394   | 4.2   |         | L.p.g., see   | 1075   | 2     |         |
| Lithium alkyls, solid, see   | 3393   | 4.2   |         | Lye, see  | 1823   | 8     |         |
| LITHIUM ALUMINIUM HYDRIDE  | 1410   | 4.3   |         | Lythene, see  | 1268   | 3     |         |
| LITHIUM ALUMINIUM HYDRIDE, ETHEREAL  | 1411   | 4.3   |         | MAGNESIUM in pellets, turnings or ribbons   | 1869   | 4.1   |         |
| LITHIUM ION BATTERIES (including lithium ion polymer batteries)                        | 3480   | 9     |         | Magnesium alkyls, see   | 3394   | 4.2   |         |
| LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT (including lithium ion polymer batteries) | 3481   | 9     |         | MAGNESIUM ALLOYS with more than 50% magnesium in pellets, turnings or ribbons     | 1869   | 4.1   |         |
| LITHIUM ION BATTERIES PACKED WITH EQUIPMENT (including lithium ion polymer batteries)  | 3481   | 9     |         | MAGNESIUM ALLOYS POWDER   | 1418   | 4.3   |         |
| LITHIUM METAL BATTERIES (including lithium alloy batteries)                            | 3090   | 9     |         | MAGNESIUM ALUMINIUM PHOSPHIDE   | 1419   | 4.3   |         |
| LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT (including lithium alloy batteries)     | 3091   | 9     |         | MAGNESIUM ARSENATE  | 1622   | 6.1   |         |
|  |        |       |         | Magnesium bisulphite solution, see  | 2693   | 8     |         |
|  |        |       |         | MAGNESIUM BROMATE   | 1473   | 5.1   |         |

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| MAGNESIUM CHLORATE  | 2723         | 5.1        |                    | Manganese (II) nitrate, see   | 2724   | 5.1   |         |
| Magnesium chloride and chlorate mixture, see                        | 1459<br>3407 | 5.1<br>5.1 |                    | MANGANESE RESINATE  | 1330   | 4.1   |         |
| MAGNESIUM DIAMIDE   | 2004         | 4.2        |                    | Manganous nitrate, see  | 2724   | 5.1   |         |
| Magnesium diphenyl, see   | 3393         | 4.2        |                    | MANNITOL HEXANITRATE, WETTED with not less than 40% water, or mixture of alcohol and water, by mass | 0133   | 1     |         |
| MAGNESIUM FLUOROSILICATE  | 2853         | 6.1        |                    | MATCHES, FUSEE  | 2254   | 4.1   |         |
| MAGNESIUM GRANULES, COATED, particle size not less than 149 microns | 2950         | 4.3        |                    | MATCHES, SAFETY (book, card or strike on box)   | 1944   | 4.1   |         |
| MAGNESIUM HYDRIDE   | 2010         | 4.3        |                    | MATCHES, "STRIKE ANYWHERE"  | 1331   | 4.1   |         |
| MAGNESIUM NITRATE   | 1474         | 5.1        |                    | MATCHES, WAX "VESTA"  | 1945   | 4.1   |         |
| MAGNESIUM PERCHLORATE   | 1475         | 5.1        |                    | MEDICAL WASTE, N.O.S.   | 3291   | 6.2   |         |
| MAGNESIUM PEROXIDE  | 1476         | 5.1        |                    | MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S.  | 3248   | 3     |         |
| MAGNESIUM PHOSPHIDE   | 2011         | 4.3        |                    | MEDICINE, LIQUID, TOXIC, N.O.S.   | 1851   | 6.1   |         |
| MAGNESIUM POWDER  | 1418         | 4.3        |                    | MEDICINE, SOLID, TOXIC, N.O.S.  | 3249   | 6.1   |         |
| Magnesium scrap, see  | 1869         | 4.1        |                    | p-Mentha-1,8-diene, see   | 2052   | 8     |         |
| MAGNESIUM SILICIDE  | 2624         | 4.3        |                    | MERCAPTANS, LIQUID, FLAMMABLE, N.O.S.   | 3336   | 3     |         |
| Magnesium silicofluoride, see                                       | 2853         | 6.1        |                    | MERCAPTANS, LIQUID, FLAMMABLE, TOXIC, N.O.S.  | 1228   | 3     |         |
| Magnetized material   | 2807         | 9          | Not subject to ADN | MERCAPTANS, LIQUID, TOXIC, FLAMMABLE, N.O.S.  | 3071   | 6.1   |         |
| MALEIC ANHYDRIDE  | 2215         | 8          |                    | MERCAPTAN MIXTURE, LIQUID, FLAMMABLE, N.O.S.  | 3336   | 3     |         |
| MALEIC ANHYDRIDE, MOLTEN  | 2215         | 8          |                    | MERCAPTAN MIXTURE, LIQUID, FLAMMABLE, TOXIC, N.O.S.   | 1228   | 3     |         |
| Malonic dinitrile, see  | 2647         | 6.1        |                    | MANEB   | 2210   | 4.2   |         |
| Malonodinitrile, see  | 2647         | 6.1        |                    | MANEB PREPARATION with not less than 60% maneb  | 2210   | 4.2   |         |
| MALONONITRILE   | 2647         | 6.1        |                    | MANEB PREPARATION, STABILIZED against self-heating  | 2968   | 4.3   |         |
| MANEB   | 2210         | 4.2        |                    | MANEB, STABILIZED against self-heating  | 2968   | 4.3   |         |
| MANEB PREPARATION with not less than 60% maneb                      | 2210         | 4.2        |                    | Manganese ethylene-di-dithiocarbamate, see  | 2210   | 4.2   |         |
| MANEB PREPARATION, STABILIZED against self-heating                  | 2968         | 4.3        |                    | Manganese ethylene-1,2-dithiocarbamate, see   | 2210   | 4.2   |         |
| MANEB, STABILIZED against self-heating                              | 2968         | 4.3        |                    | MANGANESE NITRATE   | 2724   | 5.1   |         |
| Manganese ethylene-di-dithiocarbamate, see                          | 2210         | 4.2        |                    |   |        |       |         |
| Manganese ethylene-1,2-dithiocarbamate, see                         | 2210         | 4.2        |                    |   |        |       |         |
| MANGANESE NITRATE   | 2724         | 5.1        |                    |   |        |       |         |



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|--|--------|-------|---------|---|--------|-------|---------|
| MERCURIC POTASSIUM CYANIDE   | 1626   | 6.1   |         | MERCURY POTASSIUM IODIDE  | 1643   | 6.1   |         |
| Mercuric sulphate, see   | 1645   | 6.1   |         | MERCURY SALICYLATE  | 1644   | 6.1   |         |
| Mercuriol, see   | 1639   | 6.1   |         | MERCURY SULPHATE  | 1645   | 6.1   |         |
| Mercurous bisulphate, see  | 1645   | 6.1   |         | MERCURY THIOCYANATE   | 1646   | 6.1   |         |
| MERCUROUS NITRATE  | 1627   | 6.1   |         | Metal alkyl halides, water-reactive, n.o.s. / Metal aryl halides, water-reactive, n.o.s., see   | 3394   | 4.2   |         |
| Mercurous sulphate, see  | 1645   | 6.1   |         | Metal alkyl hydrides, water-reactive, n.o.s. / Metal aryl hydrides, water-reactive, n.o.s., see | 3394   | 4.2   |         |
| MERCURY  | 2809   | 8     |         | Metal alkyls, water-reactive, n.o.s. / Metal aryls, water-reactive, n.o.s., see                 | 3393   | 4.2   |         |
| MERCURY ACETATE  | 1629   | 6.1   |         | Mesitylene, see   | 2325   | 3     |         |
| MERCURY AMMONIUM CHLORIDE  | 1630   | 6.1   |         | MESITYL OXIDE   | 1229   | 3     |         |
| MERCURY BASED PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C                   | 2778   | 3     |         | METAL CARBONYLS, LIQUID, N.O.S.   | 3281   | 6.1   |         |
| MERCURY BASED PESTICIDE, LIQUID, TOXIC   | 3012   | 6.1   |         | METAL CARBONYLS, SOLID, N.O.S.  | 3466   | 6.1   |         |
| MERCURY BASED PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C               | 3011   | 6.1   |         | METAL CATALYST, DRY   | 2881   | 4.2   |         |
| MERCURY BASED PESTICIDE, SOLID, TOXIC  | 2777   | 6.1   |         | METAL CATALYST, WETTED with a visible excess of liquid  | 1378   | 4.2   |         |
| MERCURY BENZOATE   | 1631   | 6.1   |         | METALDEHYDE   | 1332   | 4.1   |         |
| Mercury bichloride, see  | 1624   | 6.1   |         | METAL HYDRIDES, FLAMMABLE, N.O.S.   | 3182   | 4.1   |         |
| MERCURY BROMIDES   | 1634   | 6.1   |         | METAL HYDRIDES, WATER-REACTIVE, N.O.S.  | 1409   | 4.3   |         |
| MERCURY COMPOUND, LIQUID, N.O.S.   | 2024   | 6.1   |         | METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S.  | 3208   | 4.3   |         |
| MERCURY COMPOUND, SOLID, N.O.S.  | 2025   | 6.1   |         | METALLIC SUBSTANCE, WATER-REACTIVE, SELF-HEATING, N.O.S.  | 3209   | 4.3   |         |
| MERCURY CYANIDE  | 1636   | 6.1   |         | METAL POWDER, FLAMMABLE, N.O.S.   | 3089   | 4.1   |         |
| MERCURY FULMINATE, WETTED with not less than 20% water, or mixture of alcohol and water, by mass | 0135   | 1     |         | METAL POWDER, SELF-HEATING, N.O.S.  | 3189   | 4.2   |         |
| MERCURY GLUCONATE  | 1637   | 6.1   |         | METAL SALTS OF ORGANIC COMPOUNDS, FLAMMABLE, N.O.S.   | 3181   | 4.1   |         |
| MERCURY IODIDE   | 1638   | 6.1   |         | METHACRYLALDEHYDE, STABILIZED   | 2396   | 3     |         |
| MERCURY NUCLEATE   | 1639   | 6.1   |         | METHACRYLIC ACID, STABILIZED  | 2531   | 8     |         |
| MERCURY OLEATE   | 1640   | 6.1   |         | METHACRYLONITRILE, STABILIZED   | 3079   | 3     |         |
| MERCURY OXIDE  | 1641   | 6.1   |         |   |        |       |         |
| MERCURY OXYCYANIDE, DESENSITIZED   | 1642   | 6.1   |         |   |        |       |         |

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|---|--------------|------------|---------|--|--------------|--------|---------|
| METHALLYL ALCOHOL   | 2614         | 3          |         | Methyl amyl ketone, see  | 1110         | 3      |         |
| Methanal, see   | 1198<br>2209 | 3<br>8     |         | N-METHYLANILINE  | 2294         | 6.1    |         |
| Methane and hydrogen mixture, see   | 2034         | 2          |         | Methylated spirit, see   | 1986<br>1987 | 3<br>3 |         |
| METHANE, COMPRESSED   | 1971         | 2          |         | alpha-METHYLBENZYL ALCOHOL, LIQUID   | 2937         | 6.1    |         |
| METHANE, REFRIGERATED LIQUID  | 1972         | 2          |         | alpha-METHYLBENZYL ALCOHOL, SOLID  | 3438         | 6.1    |         |
| METHANESULPHONYL CHLORIDE   | 3246         | 6.1        |         | METHYL BROMIDE with not more than 2% chloropicrin                            | 1062         | 2      |         |
| METHANOL  | 1230         | 3          |         | Methyl bromide and chloropicrin mixture, with more than 2% chloropicrin, see | 1581         | 2      |         |
| 2-Methoxyethyl acetate, see   | 1189         | 3          |         | METHYL BROMIDE AND ETHYLENE DIBROMIDE MIXTURE, LIQUID                        | 1647         | 6.1    |         |
| METHOXYMETHYL ISOCYANATE  | 2605         | 3          |         | METHYL BROMOACETATE  | 2643         | 6.1    |         |
| 4-METHOXY-4-METHYLPENTAN-2-ONE  | 2293         | 3          |         | 2-METHYLBUTANAL  | 3371         | 3      |         |
| 1-Methoxy-2-nitrobenzene, see   | 2730<br>3458 | 6.1<br>6.1 |         | 3-METHYLBUTAN-2-ONE  | 2397         | 3      |         |
| 1-Methoxy-3-nitrobenzene, see   | 2730<br>3458 | 6.1<br>6.1 |         | 2-METHYL-1-BUTENE  | 2459         | 3      |         |
| 1-Methoxy-4-nitrobenzene, see   | 2730<br>3458 | 6.1<br>6.1 |         | 2-METHYL-2-BUTENE  | 2460         | 3      |         |
| 1-METHOXY-2-PROPANOL  | 3092         | 3          |         | 3-METHYL-1-BUTENE  | 2561         | 3      |         |
| METHYL ACETATE  | 1231         | 3          |         | N-METHYLBUTYLAMINE   | 2945         | 3      |         |
| METHYLACETYLENE AND PROPADIENE MIXTURE, STABILIZED such as mixture P1 or mixture P2 | 1060         | 2          |         | METHYL tert-BUTYL ETHER  | 2398         | 3      |         |
| beta-Methyl acrolein, see   | 1143         | 6.1        |         | METHYL BUTYRATE  | 1237         | 3      |         |
| METHYL ACRYLATE, STABILIZED   | 1919         | 3          |         | METHYL CHLORIDE  | 1063         | 2      |         |
| METHYLAL  | 1234         | 3          |         | Methyl chloride and chloropicrin mixture, see                                | 1582         | 2      |         |
| Methyl alcohol, see   | 1230         | 3          |         | METHYL CHLORIDE AND METHYLENE CHLORIDE MIXTURE                               | 1912         | 2      |         |
| Methyl allyl alcohol, see   | 2614         | 3          |         | METHYL CHLOROACETATE   | 2295         | 6.1    |         |
| METHYLALLYL CHLORIDE  | 2554         | 3          |         | Methyl chlorocarbonate, see  | 1238         | 6.1    |         |
| METHYLAMINE, ANHYDROUS  | 1061         | 2          |         | Methyl chloroform, see   | 2831         | 6.1    |         |
| METHYLAMINE, AQUEOUS SOLUTION   | 1235         | 3          |         | METHYL CHLOROFORMATE   | 1238         | 6.1    |         |
| METHYLAMYL ACETATE  | 1233         | 3          |         | METHYL CHLOROMETHYL ETHER  | 1239         | 6.1    |         |
| Methyl amyl alcohol, see  | 2053         | 3          |         | METHYL 2-CHLORO-PROPIONATE   | 2933         | 3      |         |

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|---|--------|-------|---------|---|--------|-------|---------------------|
| Methyl alpha-chloropropionate, see                  | 2933   | 3     |         | METHYL ISOPROPENYL KETONE, STABILIZED   | 1246   | 3     |                     |
| METHYLCHLOROSILANE                                  | 2534   | 2     |         | METHYL ISOTHIOCYANATE                   | 2477   | 6.1   |                     |
| Methyl cyanide, see                                 | 1648   | 3     |         | METHYL ISOVALERATE                      | 2400   | 3     |                     |
| METHYLCYCLOHEXANE                                   | 2296   | 3     |         | METHYL MAGNESIUM BROMIDE IN ETHYL ETHER | 1928   | 4.3   |                     |
| METHYLCYCLOHEXANOLS, flammable                      | 2617   | 3     |         | METHYL MERCAPTAN                        | 1064   | 2     |                     |
| METHYLCYCLOHEXANONE                                 | 2297   | 3     |         | Methyl mercaptopropionaldehyde, see     | 2785   | 6.1   |                     |
| METHYLCYCLOPENTANE                                  | 2298   | 3     |         | METHYL METHACRYLATE MONOMER, STABILIZED | 1247   | 3     |                     |
| METHYL DICHLOROACETATE                              | 2299   | 6.1   |         | 4-METHYLMORPHOLINE                      | 2535   | 3     |                     |
| METHYLDICHLOROSILANE                                | 1242   | 4.3   |         | N-METHYLMORPHOLINE, see                 | 2535   | 3     |                     |
| Methylene bromide, see                              | 2664   | 6.1   |         | METHYL NITRITE                          | 2455   | 2     | Carriage prohibited |
| Methylene chloride, see                             | 1593   | 6.1   |         | METHYL ORTHOSILICATE                    | 2606   | 6.1   |                     |
| Methylene chloride and methyl chloride mixture, see | 1912   | 2     |         | METHYLPENTADIENE                        | 2461   | 3     |                     |
| Methylene cyanide, see                              | 2647   | 6.1   |         | Methylpentanes, see                     | 1208   | 3     |                     |
| p,p'-Methylene dianiline, see                       | 2651   | 6.1   |         | 2-METHYLPENTAN-2-OL                     | 2560   | 3     |                     |
| Methylene dibromide, see                            | 2664   | 6.1   |         | 4-Methylpentan-2-ol, see                | 2053   | 3     |                     |
| 2,2'-Methylene-di-(3,4,6-trichlorophenol), see      | 2875   | 6.1   |         | 3-Methyl-2-penten-4ynol, see            | 2705   | 8     |                     |
| Methyl ethyl ether, see                             | 1039   | 2     |         | METHYLPHENYL-DICHLOROSILANE             | 2437   | 8     |                     |
| METHYL ETHYL KETONE, see                            | 1193   | 3     |         | 2-Methyl-2-phenylpropane, see           | 2709   | 3     |                     |
| 2-METHYL-5-ETHYLPYRIDINE                            | 2300   | 6.1   |         | 1-METHYLPYPERIDINE                      | 2399   | 3     |                     |
| METHYL FLUORIDE                                     | 2454   | 2     |         | METHYL PROPIONATE                       | 1248   | 3     |                     |
| METHYL FORMATE                                      | 1243   | 3     |         | Methylpropylbenzene, see                | 2046   | 3     |                     |
| 2-METHYLFURAN                                       | 2301   | 3     |         | METHYL PROPYL ETHER                     | 2612   | 3     |                     |
| Methyl glycol, see                                  | 1188   | 3     |         | METHYL PROPYL KETONE                    | 1249   | 3     |                     |
| Methyl glycol acetate, see                          | 1189   | 3     |         | Methyl pyridines, see                   | 2313   | 3     |                     |
| 2-METHYL-2-HEPTANETHIOL                             | 3023   | 6.1   |         | Methylstyrene, inhibited, see           | 2618   | 3     |                     |
| 5-METHYLHEXAN-2-ONE                                 | 2302   | 3     |         | alpha-Methylstyrene, see                | 2303   | 3     |                     |
| METHYLHYDRAZINE                                     | 1244   | 6.1   |         | Methyl sulphate, see                    | 1595   | 6.1   |                     |
| METHYL IODIDE                                       | 2644   | 6.1   |         | Methyl sulphide, see                    | 1164   | 3     |                     |
| METHYL ISOBUTYL CARBINOL                            | 2053   | 3     |         | METHYLTETRAHYDROFURAN                   | 2536   | 3     |                     |
| METHYL ISOBUTYL KETONE                              | 1245   | 3     |         |   |        |       |                     |
| METHYL ISOCYANATE                                   | 2480   | 6.1   |         |   |        |       |                     |

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|---|--------|-------|---------|---|--------|-------|---------|
| METHYL TRICHLOROACETATE   | 2533   | 6.1   |         | Monochloropentafluoroethane and monochloro-difluoromethane mixture, see | 1973   | 2     |         |
| METHYLTRICHLOROSILANE   | 1250   | 3     |         |   |        |       |         |
| alpha-METHYLVALERAL-DEHYDE  | 2367   | 3     |         | Monoethylamine, see   | 1036   | 2     |         |
| Methyl vinyl benzene, inhibited, see  | 2618   | 3     |         | MONONITROTOLUIDINES, see  | 2660   | 6.1   |         |
| METHYL VINYL KETONE, STABILIZED   | 1251   | 6.1   |         | Monopropylamine, see  | 1277   | 3     |         |
| M.i.b.c., see   | 2053   | 3     |         | MORPHOLINE  | 2054   | 8     |         |
| MINES with bursting charge  | 0136   | 1     |         | MOTOR FUEL ANTI-KNOCK MIXTURE   | 1649   | 6.1   |         |
|   | 0137   | 1     |         | MOTOR SPIRIT  | 1203   | 3     |         |
|   | 0138   | 1     |         | Motor spirit and ethanol mixture, with more than 10% ethanol, see       | 3475   | 3     |         |
|   | 0294   | 1     |         |   |        |       |         |
| Mirbane oil, see  | 1662   | 6.1   |         | Muriatic acid, see  | 1789   | 8     |         |
| Missiles, guided, see   | 0180   | 1     |         | MUSK XYLENE, see  | 2956   | 4.1   |         |
|   | 0181   | 1     |         |   |        |       |         |
|   | 0182   | 1     |         | Mysorite, see   | 2212   | 9     |         |
|   | 0183   | 1     |         | Naphta, see   | 1268   | 3     |         |
|   | 0295   | 1     |         |   |        |       |         |
|   | 0397   | 1     |         | Naphta, petroleum, see  | 1268   | 3     |         |
|   | 0398   | 1     |         |   |        |       |         |
|   | 0436   | 1     |         | Naphta, solvent, see  | 1268   | 3     |         |
|   | 0437   | 1     |         |   |        |       |         |
|   | 0438   | 1     |         |   |        |       |         |
| Mixtures A, A01, A02, A0, A1, B1, B2, B or C, see   | 1965   | 2     |         | NAPHTHALENE, CRUDE  | 1334   | 4.1   |         |
| Mixture F1, mixture F2 or mixture F3, see   | 1078   | 2     |         | NAPHTHALENE, MOLTEN   | 2304   | 4.1   |         |
| MIXTURES OF 1,3-BUTADIENE AND HYDROCARBONS, STABILIZED, having a vapour pressure at 70 °C not exceeding 1.1 MPa (11 bar) and a density at 50 °C not lower than 0.525 kg/l | 1010   | 2     |         | NAPHTHALENE, REFINED  | 1334   | 4.1   |         |
|   |        |       |         | alpha-NAPHTHYLAMINE   | 2077   | 6.1   |         |
| Mixture P1 or mixture P2, see   | 1060   | 2     |         | beta-NAPHTHYLAMINE, SOLID   | 1650   | 6.1   |         |
| MOLYBDENUM PENTACHLORIDE  | 2508   | 8     |         | beta-NAPHTHYLAMINE, SOLUTION  | 3411   | 6.1   |         |
| Monochloroacetic acid, see  | 1750   | 6.1   |         | NAPHTHYLTHIOUREA  | 1651   | 6.1   |         |
|   | 1751   | 6.1   |         | 1-Naphthylthiourea, see   | 1651   | 6.1   |         |
| Monochlorobenzene, see  | 1134   | 3     |         | NAPHTHYLUREA  | 1652   | 6.1   |         |
| Monochlorodifluoromethane, see  | 1018   | 2     |         | NATURAL GAS, COMPRESSED with high methane content                       | 1971   | 2     |         |
| Monochlorodifluoromethane and monochloro-pentafluoroethane mixture, see   | 1973   | 2     |         | NATURAL GAS, REFRIGERATED LIQUID with high methane content              | 1972   | 2     |         |
|   |        |       |         | Natural gasoline, see   | 1203   | 3     |         |
| Monochlorodifluoromono-bromomethane, see  | 1974   | 2     |         | Neohexane, see  | 1208   | 3     |         |
|   |        |       |         | NEON, COMPRESSED  | 1065   | 2     |         |
|   |        |       |         | NEON, REFRIGERATED LIQUID   | 1913   | 2     |         |

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| Neothyl, see  | 2612   | 3     |         | NITRATING ACID MIXTURE, SPENT, with more than 50% nitric acid                           | 1826   | 8     |         |
| NICKEL CARBONYL   | 1259   | 6.1   |         |   |        |       |         |
| NICKEL CYANIDE  | 1653   | 6.1   |         | NITRATING ACID MIXTURE, SPENT, with not more than 50% nitric acid                       | 1826   | 8     |         |
| Nickel (II) cyanide, see                                  | 1653   | 6.1   |         |   |        |       |         |
| NICKEL NITRATE  | 2725   | 5.1   |         | NITRIC ACID, other than red fuming, with at least 65% but not more than 70% nitric acid | 2031   | 8     |         |
| Nickel (II) nitrate, see                                  | 2725   | 5.1   |         |   |        |       |         |
| NICKEL NITRITE  | 2726   | 5.1   |         | NITRIC ACID, other than red fuming, with less than 65% nitric acid                      | 2031   | 8     |         |
| Nickel (II) nitrite, see                                  | 2726   | 5.1   |         |   |        |       |         |
| Nickelous nitrate, see                                    | 2725   | 5.1   |         | NITRIC ACID, other than red fuming, with more than 70% nitric acid                      | 2031   | 8     |         |
| Nickelous nitrite, see                                    | 2726   | 5.1   |         |   |        |       |         |
| Nickel tetracarbonyl, see                                 | 1259   | 6.1   |         | NITRIC ACID, RED FUMING   | 2032   | 8     |         |
| NICOTINE  | 1654   | 6.1   |         | NITRIC OXIDE, COMPRESSED  | 1660   | 2     |         |
| NICOTINE COMPOUND, LIQUID, N.O.S                          | 3144   | 6.1   |         | NITRIC OXIDE AND DINITROGEN TETROXIDE MIXTURE   | 1975   | 2     |         |
| NICOTINE COMPOUND, SOLID, N.O.S                           | 1655   | 6.1   |         | NITRIC OXIDE AND NITROGEN DIOXIDE MIXTURE, see  | 1975   | 2     |         |
| NICOTINE HYDROCHLORIDE, LIQUID                            | 1656   | 6.1   |         | NITRILES, FLAMMABLE, TOXIC, N.O.S.  | 3273   | 3     |         |
| NICOTINE HYDROCHLORIDE, SOLID                             | 3444   | 6.1   |         | NITRILES, TOXIC, LIQUID, N.O.S.   | 3276   | 6.1   |         |
| NICOTINE HYDROCHLORIDE SOLUTION                           | 1656   | 6.1   |         | NITRILES, TOXIC, SOLID, N.O.S.  | 3439   | 6.1   |         |
| NICOTINE PREPARATION, LIQUID, N.O.S.                      | 3144   | 6.1   |         | NITRILES, TOXIC, FLAMMABLE, N.O.S.  | 3275   | 6.1   |         |
| NICOTINE PREPARATION, SOLID, N.O.S.                       | 1655   | 6.1   |         | NITRITES, INORGANIC, N.O.S.   | 2627   | 5.1   |         |
| NICOTINE SALICYLATE                                       | 1657   | 6.1   |         | NITRITES, INORGANIC, AQUEOUS SOLUTION, N.O.S.   | 3219   | 5.1   |         |
| NICOTINE SULPHATE, SOLID                                  | 3445   | 6.1   |         | NITROANILINES (o-, m-, p-)  | 1661   | 6.1   |         |
| NICOTINE SULPHATE, SOLUTION                               | 1658   | 6.1   |         | NITROANISOLES, LIQUID   | 2730   | 6.1   |         |
| NICOTINE TARTRATE   | 1659   | 6.1   |         | NITROANISOLES, SOLID  | 3458   | 6.1   |         |
| NITRATES, INORGANIC, N.O.S.                               | 1477   | 5.1   |         | NITROBENZENE  | 1662   | 6.1   |         |
| NITRATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.             | 3218   | 5.1   |         | Nitrobenzene bromide, see   | 2732   | 6.1   |         |
| NITRATING ACID MIXTURE with more than 50% nitric acid     | 1796   | 8     |         | NITROBENZENESULPHONIC ACID  | 2305   | 8     |         |
| NITRATING ACID MIXTURE with not more than 50% nitric acid | 1796   | 8     |         | Nitrobenzol, see  | 1662   | 6.1   |         |
|   |        |       |         | 5-NITROBENZOTRIAZOL   | 0385   | 1     |         |

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|---|--------|-------|---------|---|--------------|------------|---------------------|
| NITROBENZOTRIFLUORIDES, LIQUID  | 2306   | 6.1   |         | NITROCELLULOSE WITH WATER (not less than 25% water, by mass)  | 2555         | 4.1        |                     |
| NITROBENZOTRIFLUORIDES, SOLID   | 3431   | 6.1   |         | Nitrochlorobenzenes, see  | 1578<br>3409 | 6.1<br>6.1 |                     |
| NITROBROMOBENZENES, LIQUID  | 2732   | 6.1   |         | 3-NITRO-4-CHLOROBENZO-TRIFLUORIDE   | 2307         | 6.1        |                     |
| NITROBROMOBENZENES, SOLID   | 3459   | 6.1   |         | NITROCRESOLS, LIQUID  | 3434         | 6.1        |                     |
| NITROCELLULOSE, dry or wetted with less than 25% water (or alcohol), by mass  | 0340   | 1     |         | NITROCRESOLS, SOLID   | 2446         | 6.1        |                     |
| NITROCELLULOSE, unmodified or plasticized with less than 18% plasticizing substance, by mass                            | 0341   | 1     |         | NITROETHANE   | 2842         | 3          |                     |
| NITROCELLULOSE MEMBRANE FILTERS, with not more than 12.6% nitrogen, by dry mass   | 3270   | 4.1   |         | NITROGEN, COMPRESSED  | 1066         | 2          |                     |
| NITROCELLULOSE, with not more than 12.6% nitrogen, by dry mass, MIXTURE WITH PLASTICIZER, WITH PIGMENT                  | 2557   | 4.1   |         | NITROGEN DIOXIDE, see   | 1067         | 2          |                     |
| NITROCELLULOSE, with not more than 12.6% nitrogen, by dry mass, MIXTURE WITH PLASTICIZER, WITHOUT PIGMENT               | 2557   | 4.1   |         | NITROGEN, REFRIGERATED LIQUID   | 1977         | 2          |                     |
| NITROCELLULOSE, with not more than 12.6% nitrogen, by dry mass, MIXTURE WITHOUT PLASTICIZER, WITH PIGMENT               | 2557   | 4.1   |         | NITROGEN TRIFLUORIDE  | 2451         | 2          |                     |
| NITROCELLULOSE, with not more than 12.6% nitrogen, by dry mass, MIXTURE WITHOUT PLASTICIZER, WITHOUT PIGMENT            | 2557   | 4.1   |         | NITROGEN TRIOXIDE   | 2421         | 2          | Carriage prohibited |
| NITROCELLULOSE, PLASTICIZED with not less than 18% plasticizing substance, by mass                                      | 0343   | 1     |         | NITROGLYCERIN, DESENSITIZED with not less than 40% non-volatile water-insoluble phlegmatizer, by mass             | 0143         | 1          |                     |
| NITROCELLULOSE SOLUTION, FLAMMABLE with not more than 12.6% nitrogen, by dry mass, and not more than 55% nitrocellulose | 2059   | 3     |         | NITROGLYCERIN MIXTURE, DESENSITIZED, LIQUID, N.O.S. with not more than 30% nitroglycerin, by mass                 | 3357         | 3          |                     |
| NITROCELLULOSE, WETTED with not less than 25% alcohol, by mass  | 0342   | 1     |         | NITROGLYCERIN MIXTURE, DESENSITIZED, LIQUID, FLAMMABLE, N.O.S. with not more than 30% nitroglycerin, by mass      | 3343         | 3          |                     |
| NITROCELLULOSE WITH ALCOHOL (not less than 25% alcohol, by mass, and not more than 12.6% nitrogen, by dry mass)         | 2556   | 4.1   |         | NITROGLYCERIN MIXTURE, DESENSITIZED, SOLID, N.O.S. with more than 2% but not more than 10% nitroglycerin, by mass | 3319         | 4.1        |                     |
|   |        |       |         | NITROGLYCERIN, SOLUTION IN ALCOHOL with more than 1% but not more than 5% nitroglycerin                           | 3064         | 3          |                     |
|   |        |       |         | NITROGLYCERIN SOLUTION IN ALCOHOL with more than 1% but not more than 10% nitroglycerin                           | 0144         | 1          |                     |
|   |        |       |         | NITROGLYCERIN SOLUTION IN ALCOHOL with not more than 1% nitroglycerin   | 1204         | 3          |                     |
|   |        |       |         | NITROGUANIDINE, dry or wetted with less than 20% water, by mass   | 0282         | 1          |                     |

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| NITROGUANIDINE, WETTED with not less than 20% water, by mass  | 1336   | 4.1   |                     | NONYLTRICHLOROSILANE  | 1799                 | 8           |         |
| NITROHYDROCHLORIC ACID  | 1798   | 8     | Carriage prohibited | 2,5-NORBORNADIENE, STABILIZED, see                          | 2251                 | 3           |         |
| NITROMANNITE, WETTED, see                                     | 0133   | 1     |                     | Normal propyl alcohol, see                                  | 1274                 | 3           |         |
| NITROMETHANE  | 1261   | 3     |                     | NTO, see  | 0490                 | 1           |         |
| Nitromuriatic acid, see                                       | 1798   | 8     |                     | OCTADECYLTRICHLOROSILANE                                    | 1800                 | 8           |         |
| NITRONAPHTHALENE  | 2538   | 4.1   |                     | OCTADIENE   | 2309                 | 3           |         |
| NITROPHENOLS (o-, m-, p-)                                     | 1663   | 6.1   |                     | OCTAFLUOROBUT-2-ENE   | 2422                 | 2           |         |
| 4-NITROPHENYLHYDRAZINE, with not less than 30% water, by mass | 3376   | 4.1   |                     | OCTAFLUOROCYCLOBUTANE                                       | 1976                 | 2           |         |
| NITROPROPANES   | 2608   | 3     |                     | OCTAFLUOROPROPANE   | 2424                 | 2           |         |
| p-NITROSODIMETHYLANILINE                                      | 1369   | 4.2   |                     | OCTANES   | 1262                 | 3           |         |
| NITROSTARCH, dry or wetted with less than 20% water, by mass  | 0146   | 1     |                     | OCTOGEN, see  | 0226<br>0391<br>0484 | 1<br>1<br>1 |         |
| NITROSTARCH, WETTED with not less than 20% water, by mass     | 1337   | 4.1   |                     | OCTOL, dry or wetted with less than 15% water, by mass, see | 0266                 | 1           |         |
| NITROSYL CHLORIDE   | 1069   | 2     |                     | OCTOLITE, dry or wetted with less than 15% water, by mass   | 0266                 | 1           |         |
| NITROSYLSULPHURIC ACID, LIQUID                                | 2308   | 8     |                     | OCTONAL   | 0496                 | 1           |         |
| NITROSYLSULPHURIC ACID, SOLID                                 | 3456   | 8     |                     | OCTYL ALDEHYDES   | 1191                 | 3           |         |
| NITROTOLUENES, LIQUID   | 1664   | 6.1   |                     | tert-Octyl mercaptan, see                                   | 3023                 | 6.1         |         |
| NITROTOLUENES, SOLID  | 3446   | 6.1   |                     | OCTYLTRICHLOROSILANE  | 1801                 | 8           |         |
| NITROTOLUIDINES   | 2660   | 6.1   |                     | Oenanthol, see  | 3056                 | 3           |         |
| NITROTRIAZOLONE   | 0490   | 1     |                     | OIL GAS, COMPRESSED   | 1071                 | 2           |         |
| NITRO UREA  | 0147   | 1     |                     | Oleum, see  | 1831                 | 8           |         |
| NITROUS OXIDE   | 1070   | 2     |                     | ORGANIC PEROXIDE TYPE B, LIQUID                             | 3101                 | 5.2         |         |
| NITROUS OXIDE, REFRIGERATED LIQUID                            | 2201   | 2     |                     | ORGANIC PEROXIDE TYPE B, LIQUID, TEMPERATURE CONTROLLED     | 3111                 | 5.2         |         |
| NITROXYLENES, LIQUID  | 1665   | 6.1   |                     | ORGANIC PEROXIDE TYPE B, SOLID                              | 3102                 | 5.2         |         |
| NITROXYLENES, SOLID   | 3447   | 6.1   |                     | ORGANIC PEROXIDE TYPE B, SOLID, TEMPERATURE CONTROLLED      | 3112                 | 5.2         |         |
| Non-activated carbon, see                                     | 1361   | 4.2   |                     | ORGANIC PEROXIDE TYPE C, LIQUID                             | 3103                 | 5.2         |         |
| Non-activated charcoal, see                                   | 1361   | 4.2   |                     |   |                      |             |         |
| NONANES   | 1920   | 3     |                     |   |                      |             |         |

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| ORGANIC PEROXIDE<br>TYPE C, LIQUID, TEMPERATURE<br>CONTROLLED  | 3113               | 5.2   |         | ORGANOCHLORINE PESTICIDE,<br>LIQUID, FLAMMABLE, TOXIC,<br>flash-point less than 23 °C   | 2762   | 3     |         |
| ORGANIC PEROXIDE<br>TYPE C, SOLID  | 3104               | 5.2   |         | ORGANOCHLORINE PESTICIDE,<br>LIQUID, TOXIC  | 2996   | 6.1   |         |
| ORGANIC PEROXIDE<br>TYPE C, SOLID, TEMPERATURE<br>CONTROLLED   | 3114               | 5.2   |         | ORGANOCHLORINE PESTICIDE,<br>LIQUID, TOXIC, FLAMMABLE,<br>flash-point not less than 23 °C   | 2995   | 6.1   |         |
| ORGANIC PEROXIDE<br>TYPE D, LIQUID   | 3105               | 5.2   |         | ORGANOCHLORINE PESTICIDE,<br>SOLID, TOXIC   | 2761   | 6.1   |         |
| ORGANIC PEROXIDE<br>TYPE D, LIQUID,<br>TEMPERATURE CONTROLLED  | 3115               | 5.2   |         | ORGANOMETALLIC<br>COMPOUND, TOXIC, LIQUID,<br>N.O.S.  | 3282   | 6.1   |         |
| ORGANIC PEROXIDE<br>TYPE D, SOLID  | 3106               | 5.2   |         | ORGANOMETALLIC<br>COMPOUND, TOXIC, SOLID,<br>N.O.S.   | 3467   | 6.1   |         |
| ORGANIC PEROXIDE<br>TYPE D, SOLID, TEMPERATURE<br>CONTROLLED   | 3116               | 5.2   |         | Organometallic compound, solid,<br>water-reactive, flammable, n.o.s., see   | 3396   | 4.3   |         |
| ORGANIC PEROXIDE<br>TYPE E, LIQUID   | 3107               | 5.2   |         | Organometallic compound or<br>Organometallic compound solution<br>or Organometallic compound<br>dispersion, water-reactive,<br>flammable, n.o.s., see | 3399   | 4.3   |         |
| ORGANIC PEROXIDE<br>TYPE E, LIQUID, TEMPERATURE<br>CONTROLLED  | 3117               | 5.2   |         | ORGANOMETALLIC<br>SUBSTANCE, LIQUID,<br>PYROPHORIC  | 3392   | 4.2   |         |
| ORGANIC PEROXIDE<br>TYPE E, SOLID, TEMPERATURE<br>CONTROLLED   | 3108               | 5.2   |         | ORGANOMETALLIC<br>SUBSTANCE, SOLID,<br>PYROPHORIC   | 3391   | 4.2   |         |
| ORGANIC PEROXIDE<br>TYPE F, LIQUID   | 3109               | 5.2   |         | ORGANOMETALLIC<br>SUBSTANCE, SOLID, SELF-<br>HEATING  | 3400   | 4.2   |         |
| ORGANIC PEROXIDE<br>TYPE F, LIQUID, TEMPERATURE<br>CONTROLLED  | 3119               | 5.2   |         | ORGANOMETALLIC<br>SUBSTANCE, LIQUID,<br>PYROPHORIC, WATER-<br>REACTIVE  | 3394   | 4.2   |         |
| ORGANIC PEROXIDE<br>TYPE F, SOLID  | 3110               | 5.2   |         | ORGANOMETALLIC<br>SUBSTANCE, SOLID,<br>PYROPHORIC, WATER-<br>REACTIVE   | 3393   | 4.2   |         |
| ORGANIC PEROXIDE<br>TYPE F, SOLID, TEMPERATURE<br>CONTROLLED   | 3120               | 5.2   |         | ORGANOMETALLIC<br>SUBSTANCE, LIQUID, WATER-<br>REACTIVE   | 3398   | 4.3   |         |
| Organic peroxides, see 2.2.52.4 for<br>an alphabetic list of currently<br>assigned organic peroxides and see | 3101<br>to<br>3120 | 5.2   |         | ORGANOMETALLIC<br>SUBSTANCE, SOLID, WATER-<br>REACTIVE  | 3395   | 4.3   |         |
| ORGANIC PIGMENTS, SELF-<br>HEATING   | 3313               | 4.2   |         | ORGANOMETALLIC<br>SUBSTANCE, LIQUID, WATER-<br>REACTIVE, FLAMMABLE  | 3399   | 4.3   |         |
| ORGANOARSENIC COMPOUND,<br>LIQUID, N.O.S.  | 3280               | 6.1   |         |   |        |       |         |
| ORGANOARSENIC COMPOUND,<br>SOLID, N.O.S.   | 3465               | 6.1   |         |   |        |       |         |



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| ORGANOMETALLIC SUBSTANCE, SOLID, WATER-REACTIVE, FLAMMABLE                            | 3396   | 4.3   |         | OXIDIZING LIQUID, TOXIC, N.O.S.  | 3099                         | 5.1              |                     |
| ORGANOMETALLIC SUBSTANCE, SOLID, WATER-REACTIVE, SELF-HEATING                         | 3397   | 4.3   |         | OXIDIZING SOLID, N.O.S.  | 1479                         | 5.1              |                     |
| ORGANOPHOSPHORUS COMPOUND, TOXIC, LIQUID, N.O.S.                                      | 3278   | 6.1   |         | OXIDIZING SOLID, CORROSIVE, N.O.S.   | 3085                         | 5.1              |                     |
| ORGANOPHOSPHORUS COMPOUND, TOXIC, SOLID, N.O.S.                                       | 3464   | 6.1   |         | OXIDIZING SOLID, FLAMMABLE, N.O.S.   | 3137                         | 5.1              | Carriage prohibited |
| ORGANOPHOSPHORUS COMPOUND, TOXIC, FLAMMABLE, N.O.S.                                   | 3279   | 6.1   |         | OXIDIZING SOLID, SELF-HEATING, N.O.S.  | 3100                         | 5.1              | Carriage prohibited |
| ORGANOPHOSPHORUS PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C     | 2784   | 3     |         | OXIDIZING SOLID, TOXIC, N.O.S.   | 3087                         | 5.1              |                     |
| ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC   | 3018   | 6.1   |         | OXIDIZING SOLID, WATER-REACTIVE, N.O.S.  | 3121                         | 5.1              | Carriage prohibited |
| ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C | 3017   | 6.1   |         | Oxirane, see   | 1040                         | 2                |                     |
| ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC  | 2783   | 6.1   |         | OXYGEN, COMPRESSED   | 1072                         | 2                |                     |
| ORGANOTIN COMPOUND, LIQUID, N.O.S.  | 2788   | 6.1   |         | OXYGEN DIFLUORIDE, COMPRESSED  | 2190                         | 2                |                     |
| ORGANOTIN COMPOUND, SOLID, N.O.S.   | 3146   | 6.1   |         | OXYGEN GENERATOR, CHEMICAL   | 3356                         | 5.1              |                     |
| ORGANOTIN PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C            | 2787   | 3     |         | OXYGEN, REFRIGERATED LIQUID  | 1073                         | 2                |                     |
| ORGANOTIN PESTICIDE, LIQUID, TOXIC  | 3020   | 6.1   |         | 1-Oxy-4-nitrobenzene, see  | 1663                         | 6.1              |                     |
| ORGANOTIN PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C        | 3019   | 6.1   |         | PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) | 1263<br>3066<br>3469<br>3470 | 3<br>8<br>3<br>8 |                     |
| ORGANOTIN PESTICIDE, SOLID, TOXIC   | 2786   | 6.1   |         | PAINT RELATED MATERIAL (including paint thinning and reducing compound)  | 1263<br>3066<br>3469<br>3470 | 3<br>8<br>3<br>8 |                     |
| Orthophosphoric acid, see   | 1805   | 8     |         | Paint thinning and reducing compound, see  | 1263<br>3066<br>3469<br>3470 | 3<br>8<br>3<br>8 |                     |
| OSMIUM TETROXIDE  | 2471   | 6.1   |         | PAPER, UNSATURATED OIL TREATED, incompletely dried (including carbon paper)                                      | 1379                         | 4.2              |                     |
| OXIDIZING LIQUID, N.O.S.  | 3139   | 5.1   |         | Paraffin, see  | 1223                         | 3                |                     |
| OXIDIZING LIQUID, CORROSIVE, N.O.S.   | 3098   | 5.1   |         | PARAFORMALDEHYDE   | 2213                         | 4.1              |                     |
|   |        |       |         | PARALDEHYDE  | 1264                         | 3                |                     |
|   |        |       |         | PCBs, see  | 2315<br>3432                 | 9<br>9           |                     |
|   |        |       |         | PENTABORANE  | 1380                         | 4.2              |                     |
|   |        |       |         | PENTACHLOROETHANE  | 1669                         | 6.1              |                     |

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| PENTACHLOROPHENOL   | 3155                 | 6.1           |         | PERCHLORIC ACID with more than 50% but not more than 72% acid, by mass       | 1873   | 5.1   |         |
| PENTAERYTHRITETETRANITRATE with not less than 7% wax, by mass   | 0411                 | 1             |         | PERCHLORIC ACID with not more than 50% acid, by mass                         | 1802   | 8     |         |
| PENTAERYTHRITETETRANITRATE, DESENSITIZED with not less than 15% phlegmatizer, by mass   | 0150                 | 1             |         | Perchlorobenzene, see  | 2729   | 6.1   |         |
| PENTAERYTHRITETETRANITRATE MIXTURE, DESENSITIZED, SOLID, N.O.S. with more than 10% but not more than 20% PETN, by mass  | 3344                 | 4.1           |         | Perchlorocyclopentadiene, see  | 2646   | 6.1   |         |
| PENTAERYTHRITETETRANITRATE, WETTED with not less than 25% water, by mass  | 0150                 | 1             |         | Perchloroethylene, see   | 1897   | 6.1   |         |
| PENTAERYTHRITOLTETRANITRATE, see  | 0150<br>0411<br>3344 | 1<br>1<br>4.1 |         | PERCHLOROMETHYLMERCAPTAN   | 1670   | 6.1   |         |
| PENTAFLUOROETHANE   | 3220                 | 2             |         | PERCHLORYL FLUORIDE  | 3083   | 2     |         |
| Pentafluoroethane, 1,1,1-trifluoroethane, and 1,1,1,2-tetrafluoroethane zeotropic mixture with approximately 44% pentafluoroethane and 52% 1,1,1-trifluoroethane, see | 3337                 | 2             |         | Perfluoroacetylchloride, see   | 3057   | 2     |         |
| PENTAMETHYLHEPTANE  | 2286                 | 3             |         | PERFLUORO(ETHYL VINYL ETHER)   | 3154   | 2     |         |
| Pentanal, see   | 2058                 | 3             |         | PERFLUORO(METHYL VINYL ETHER)  | 3153   | 2     |         |
| PENTANE-2,4-DIONE   | 2310                 | 3             |         | Perfluoropropane, see  | 2424   | 2     |         |
| PENTANES, liquid  | 1265                 | 3             |         | PERFUMERY PRODUCTS with flammable solvents                                   | 1266   | 3     |         |
| n-Pentane, see  | 1265                 | 3             |         | PERMANGANATES, INORGANIC, N.O.S.   | 1482   | 5.1   |         |
| PENTANOLS   | 1105                 | 3             |         | PERMANGANATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.                           | 3214   | 5.1   |         |
| n-Pentanol, see   | 1105                 | 3             |         | PEROXIDES, INORGANIC, N.O.S.   | 1483   | 5.1   |         |
| 3-Pentanol, see   | 1105                 | 3             |         | PERSULPHATES, INORGANIC, N.O.S.  | 3215   | 5.1   |         |
| 1-PENTENE   | 1108                 | 3             |         | PERSULPHATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.                            | 3216   | 5.1   |         |
| 1-PENTOL  | 2705                 | 8             |         | PESTICIDE, LIQUID, FLAMMABLE, TOXIC, N.O.S., flash-point less than 23 °C     | 3021   | 3     |         |
| PENTOLITE, dry or wetted with less than 15% water, by mass  | 0151                 | 1             |         | PESTICIDE, LIQUID, TOXIC, N.O.S.   | 2902   | 6.1   |         |
| Pentyl nitrite, see   | 1113                 | 3             |         | PESTICIDE, LIQUID, TOXIC, FLAMMABLE, N.O.S., flash-point not less than 23 °C | 2903   | 6.1   |         |
| PERCHLORATES, INORGANIC, N.O.S.   | 1481                 | 5.1           |         | PESTICIDE, SOLID, TOXIC, N.O.S.  | 2588   | 6.1   |         |
| PERCHLORATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.   | 3211                 | 5.1           |         | Pesticide, toxic, under compressed gas, n.o.s, see                           | 1950   | 2     |         |

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| PETN, see  | 0150   | 1     |         | PHENYLACETONITRILE, LIQUID      | 2470   | 6.1   |         |
|  | 0411   | 1     |         |                                 |        |       |         |
|  | 3344   | 4.1   |         | PHENYLACETYL CHLORIDE           | 2577   | 8     |         |
| PETN/TNT, see  | 0151   | 1     |         | Phenylamine, see                | 1547   | 6.1   |         |
| PETROL   | 1203   | 3     |         | 1-Phenylbutane, see             | 2709   | 3     |         |
| Petrol and ethanol mixture, with more than 10% ethanol, see  | 3475   | 3     |         | 2-Phenylbutane, see             | 2709   | 3     |         |
| PETROLEUM CRUDE OIL  | 1267   | 3     |         | PHENYLCARBYLAMINE CHLORIDE      | 1672   | 6.1   |         |
| PETROLEUM DISTILLATES, N.O.S.  | 1268   | 3     |         | PHENYL CHLOROFORMATE            | 2746   | 6.1   |         |
| Petroleum ether, see   | 1268   | 3     |         | Phenyl cyanide, see             | 2224   | 6.1   |         |
| PETROLEUM GASES, LIQUEFIED   | 1075   | 2     |         | PHENYLENEDIAMINES (o-, m-, p-)  | 1673   | 6.1   |         |
| Petroleum naphtha, see   | 1268   | 3     |         | Phenylethylene, see             | 2055   | 3     |         |
| Petroleum oil, see   | 1268   | 3     |         | PHENYLHYDRAZINE                 | 2572   | 6.1   |         |
| PETROLEUM PRODUCTS, N.O.S.   | 1268   | 3     |         | PHENYL ISOCYANATE               | 2487   | 6.1   |         |
| Petroleum raffinate, see   | 1268   | 3     |         | Phenylisocyanodichloride, see   | 1672   | 6.1   |         |
| Petroleum spirit, see  | 1268   | 3     |         | PHENYL MERCAPTAN                | 2337   | 6.1   |         |
| PHENACYL BROMIDE   | 2645   | 6.1   |         | PHENYLMERCURIC ACETATE          | 1674   | 6.1   |         |
| PHENETIDINES   | 2311   | 6.1   |         | PHENYLMERCURIC COMPOUND, N.O.S. | 2026   | 6.1   |         |
| PHENOLATES, LIQUID   | 2904   | 8     |         | PHENYLMERCURIC HYDROXIDE        | 1894   | 6.1   |         |
| PHENOLATES, SOLID  | 2905   | 8     |         | PHENYLMERCURIC NITRATE          | 1895   | 6.1   |         |
| PHENOL, MOLTEN   | 2312   | 6.1   |         | PHENYLPHOSPHORUS DICHLORIDE     | 2798   | 8     |         |
| PHENOL, SOLID  | 1671   | 6.1   |         | PHENYLPHOSPHORUS THIODICHLORIDE | 2799   | 8     |         |
| PHENOL SOLUTION  | 2821   | 6.1   |         | 2-Phenylpropene, see            | 2303   | 3     |         |
| PHENOLSULPHONIC ACID, LIQUID   | 1803   | 8     |         | PHENYLTRICHLOROSILANE           | 1804   | 8     |         |
| PHENOXYACETIC ACID DERIVATIVE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C     | 3346   | 3     |         | PHOSGENE                        | 1076   | 2     |         |
| PHENOXYACETIC ACID DERIVATIVE PESTICIDE, LIQUID, TOXIC   | 3348   | 6.1   |         | 9-PHOSPHABICYCLONONANES         | 2940   | 4.2   |         |
| PHENOXYACETIC ACID DERIVATIVE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C | 3347   | 6.1   |         | PHOSPHINE                       | 2199   | 2     |         |
|  |        |       |         | Phosphoretted hydrogen, see     | 2199   | 2     |         |
|  |        |       |         | PHOSPHORIC ACID, SOLUTION       | 1805   | 8     |         |
|  |        |       |         | PHOSPHORIC ACID, SOLID          | 3453   | 8     |         |
|  |        |       |         | Phosphoric acid, anhydrous, see | 1807   | 8     |         |
|  |        |       |         | PHOSPHOROUS ACID                | 2834   | 8     |         |

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| PHOSPHORUS, AMORPHOUS   | 1338   | 4.1   |         | Phosphoryl chloride, see   | 1810                         | 8                |         |
| Phosphorus bromide, see   | 1808   | 8     |         | PHTHALIC ANHYDRIDE with more than 0.05% of maleic anhydride                                | 2214                         | 8                |         |
| Phosphorus chloride, see  | 1809   | 6.1   |         | PICOLINES  | 2313                         | 3                |         |
| PHOSPHORUS HEPTASULPHIDE, free from yellow and white phosphorus     | 1339   | 4.1   |         | PICRAMIDE, see   | 0153                         | 1                |         |
| PHOSPHORUS OXYBROMIDE   | 1939   | 8     |         | PICRIC ACID WETTED, see  | 1344<br>3364                 | 4.1<br>4.1       |         |
| PHOSPHORUS OXYBROMIDE, MOLTEN                                       | 2576   | 8     |         | PICRITE, see   | 0282                         | 1                |         |
| PHOSPHORUS OXYCHLORIDE  | 1810   | 8     |         | PICRITE, WETTED, see   | 1336                         | 4.1              |         |
| PHOSPHORUS PENTABROMIDE   | 2691   | 8     |         | Picrotoxin, see  | 3172<br>3462                 | 6.1<br>6.1       |         |
| PHOSPHORUS PENTACHLORIDE  | 1806   | 8     |         | PICRYL CHLORIDE, see   | 0155                         | 1                |         |
| PHOSPHORUS PENTAFLUORIDE  | 2198   | 2     |         | PICRYL CHLORIDE, WETTED, see   | 3365                         | 4.1              |         |
| PHOSPHORUS PENTASULPHIDE, free from yellow and white phosphorus     | 1340   | 4.3   |         | alpha-PINENE   | 2368                         | 3                |         |
| PHOSPHORUS PENTOXIDE  | 1807   | 8     |         | PINE OIL   | 1272                         | 3                |         |
| PHOSPHORUS SESQUISULPHIDE, free from yellow and white phosphorus    | 1341   | 4.1   |         | PIPERAZINE   | 2579                         | 8                |         |
| Phosphorus (V) sulphide, free from yellow and white phosphorus, see | 1340   | 4.3   |         | PIPERIDINE   | 2401                         | 8                |         |
| Phosphorus sulphochloride, see                                      | 1837   | 8     |         | Pivaloyl chloride, see   | 2438                         | 6.1              |         |
| PHOSPHORUS TRIBROMIDE   | 1808   | 8     |         | Plastic explosives, see  | 0084                         | 1                |         |
| PHOSPHORUS TRICHLORIDE  | 1809   | 6.1   |         | PLASTICS MOULDING COMPOUND in dough, sheet or extruded rope form evolving flammable vapour | 3314                         | 9                |         |
| PHOSPHORUS TRIOXIDE   | 2578   | 8     |         | PLASTICS, NITROCELLULOSE-BASED, SELF-HEATING, N.O.S.                                       | 2006                         | 4.2              |         |
| PHOSPHORUS TRISULPHIDE, free from yellow and white phosphorus       | 1343   | 4.1   |         | Polish, see  | 1263<br>3066<br>3469<br>3470 | 3<br>8<br>3<br>8 |         |
| PHOSPHORUS, WHITE, DRY  | 1381   | 4.2   |         | POLYAMINES, FLAMMABLE, CORROSIVE, N.O.S.   | 2733                         | 3                |         |
| PHOSPHORUS, WHITE IN SOLUTION                                       | 1381   | 4.2   |         | POLYAMINES, LIQUID, CORROSIVE, N.O.S.  | 2735                         | 8                |         |
| PHOSPHORUS, WHITE, MOLTEN   | 2447   | 4.2   |         | POLYAMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S.   | 2734                         | 8                |         |
| PHOSPHORUS, WHITE, UNDER WATER                                      | 1381   | 4.2   |         | POLYAMINES, SOLID, CORROSIVE, N.O.S.   | 3259                         | 8                |         |
| PHOSPHORUS, YELLOW, DRY   | 1381   | 4.2   |         | POLYCHLORINATED BIPHENYLS, LIQUID  | 2315                         | 9                |         |
| PHOSPHORUS, YELLOW, IN SOLUTION                                     | 1381   | 4.2   |         | POLYCHLORINATED BIPHENYLS, SOLID   | 3432                         | 9                |         |
| PHOSPHORUS, YELLOW, UNDER WATER                                     | 1381   | 4.2   |         | POLYESTER RESIN KIT  | 3269                         | 3                |         |

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| POLYHALOGENATED BIPHENYLS, LIQUID                      | 3151   | 9     |         | POTASSIUM HYDROGENDIFLUORIDE, SOLID                            | 1811   | 8     |         |
| POLYHALOGENATED BIPHENYLS, SOLID                       | 3152   | 9     |         | POTASSIUM HYDROGENDIFLUORIDE, SOLUTION                         | 3421   | 8     |         |
| POLYHALOGENATED TERPHENYLS, LIQUID                     | 3151   | 9     |         | POTASSIUM HYDROGEN SULPHATE                                    | 2509   | 8     |         |
| POLYHALOGENATED TERPHENYLS, SOLID                      | 3152   | 9     |         | POTASSIUM HYDROSULPHITE, see                                   | 1929   | 4.2   |         |
| POLYMERIC BEADS, EXPANDABLE, evolving flammable vapour | 2211   | 9     |         | Potassium hydroxide, liquid, see                               | 1814   | 8     |         |
| Polystyrene beads, expandable, see                     | 2211   | 9     |         | POTASSIUM HYDROXIDE, SOLID                                     | 1813   | 8     |         |
| POTASSIUM  | 2257   | 4.3   |         | POTASSIUM HYDROXIDE SOLUTION                                   | 1814   | 8     |         |
| POTASSIUM ARSENATE                                     | 1677   | 6.1   |         | POTASSIUM METAL ALLOYS, LIQUID                                 | 1420   | 4.3   |         |
| POTASSIUM ARSENITE                                     | 1678   | 6.1   |         | POTASSIUM METAL ALLOYS, SOLID                                  | 3403   | 4.3   |         |
| Potassium bifluoride, see                              | 1811   | 8     |         | POTASSIUM METAVANADATE   | 2864   | 6.1   |         |
| Potassium bisulphate, see                              | 2509   | 8     |         | POTASSIUM MONOXIDE   | 2033   | 8     |         |
| Potassium bisulphite solution, see                     | 2693   | 8     |         | POTASSIUM NITRATE  | 1486   | 5.1   |         |
| POTASSIUM BOROHYDRIDE                                  | 1870   | 4.3   |         | Potassium nitrate and sodium nitrate mixture, see              | 1499   | 5.1   |         |
| POTASSIUM BROMATE                                      | 1484   | 5.1   |         | POTASSIUM NITRATE AND SODIUM NITRITE MIXTURE                   | 1487   | 5.1   |         |
| POTASSIUM CHLORATE                                     | 1485   | 5.1   |         | POTASSIUM NITRITE  | 1488   | 5.1   |         |
| POTASSIUM CHLORATE, AQUEOUS SOLUTION                   | 2427   | 5.1   |         | POTASSIUM PERCHLORATE  | 1489   | 5.1   |         |
| Potassium chlorate mixed with mineral oil, see         | 0083   | 1     |         | POTASSIUM PERMANGANATE   | 1490   | 5.1   |         |
| POTASSIUM CUPROCYANIDE                                 | 1679   | 6.1   |         | POTASSIUM PEROXIDE   | 1491   | 5.1   |         |
| POTASSIUM CYANIDE, SOLID                               | 1680   | 6.1   |         | POTASSIUM PERSULPHATE  | 1492   | 5.1   |         |
| POTASSIUM CYANIDE, SOLUTION                            | 3413   | 6.1   |         | POTASSIUM PHOSPHIDE  | 2012   | 4.3   |         |
| Potassium dicyanocuprate (I), see                      | 1679   | 6.1   |         | Potassium selenate, see  | 2630   | 6.1   |         |
| POTASSIUM DITHIONITE                                   | 1929   | 4.2   |         | Potassium selenite, see  | 2630   | 6.1   |         |
| POTASSIUM FLUORIDE, SOLID                              | 1812   | 6.1   |         | Potassium silicofluoride, see                                  | 2655   | 6.1   |         |
| POTASSIUM FLUORIDE, SOLUTION                           | 3422   | 6.1   |         | POTASSIUM SODIUM ALLOYS, LIQUID                                | 1422   | 4.3   |         |
| POTASSIUM FLUOROACETATE                                | 2628   | 6.1   |         | POTASSIUM SODIUM ALLOYS, SOLID                                 | 3404   | 4.3   |         |
| POTASSIUM FLUROSILICATE                                | 2655   | 6.1   |         | POTASSIUM SULPHIDE with less than 30% water of crystallization | 1382   | 4.2   |         |
| Potassium hexafluorosilicate, see                      | 2655   | 6.1   |         |  |        |       |         |
| Potassium hydrate, see                                 | 1814   | 8     |         |  |        |       |         |

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| POTASSIUM SULPHIDE, ANHYDROUS  | 1382   | 4.2                        |         | PROPADIENE, STABILIZED  | 2200                 | 2           |         |
| POTASSIUM SULPHIDE, HYDRATED with not less than 30% water of crystallization   | 1847   | 8                          |         | Propadiene and methyl acetylene mixture, stabilized, see  | 1060                 | 2           |         |
| POTASSIUM SUPEROXIDE   | 2466   | 5.1                        |         | PROPANE   | 1978                 | 2           |         |
| Potassium tetracyano-mercurate (II), see   | 1626   | 6.1                        |         | PROPANETHIOLS   | 2402                 | 3           |         |
| POWDER CAKE, WETTED with not less than 17% alcohol, by mass  | 0433   | 1                          |         | n-PROPANOL  | 1274                 | 3           |         |
| POWDER CAKE, WETTED with not less than 25% water, by mass  | 0159   | 1                          |         | PROPELLANT, LIQUID  | 0495<br>0497         | 1<br>1      |         |
| POWDER PASTE, see  | 0159<br>0433                                 | 1<br>1                     |         | PROPELLANT, SOLID   | 0498<br>0499<br>0501 | 1<br>1<br>1 |         |
| POWDER, SMOKELESS  | 0160<br>0161                                 | 1<br>1                     |         | Propellant with a single base,<br>Propellant with a double base,<br>Propellant with a triple base,<br>see | 0160<br>0161         | 1<br>1      |         |
| Power devices, explosive, see  | 0275<br>0276<br>0323<br>0381                 | 1<br>1<br>1<br>1           |         | Propene, see  | 1077                 | 2           |         |
| PRIMERS, CAP TYPE  | 0044<br>0377<br>0378                         | 1<br>1<br>1                |         | PROPIONALDEHYDE   | 1275                 | 3           |         |
| Primers, small arms, see   | 0044   | 1                          |         | PROPIONIC ACID with not less than 10% and less than 90% acid by mass                                      | 1848                 | 8           |         |
| PRIMERS, TUBULAR   | 0319<br>0320<br>0376                         | 1<br>1<br>1                |         | PROPIONIC ACID with not less than 90% acid by mass  | 3463                 | 8           |         |
| PRINTING INK, flammable or PRINTING INK RELATED MATERIAL (including printing ink thinning or reducing compound), flammable | 1210   | 3                          |         | PROPIONIC ANHYDRIDE   | 2496                 | 8           |         |
| Projectiles, illuminating, see   | 0171<br>0254<br>0297                         | 1<br>1<br>1                |         | PROPIONITRILE   | 2404                 | 3           |         |
| PROJECTILES, inert with tracer   | 0345<br>0424<br>0425                         | 1<br>1<br>1                |         | PROPIONYL CHLORIDE  | 1815                 | 3           |         |
| PROJECTILES with burster or expelling charge   | 0346<br>0347<br>0426<br>0427<br>0434<br>0435 | 1<br>1<br>1<br>1<br>1<br>1 |         | n-PROPYL ACETATE  | 1276                 | 3           |         |
| PROJECTILES with bursting charge   | 0167<br>0168<br>0169<br>0324<br>0344         | 1<br>1<br>1<br>1<br>1      |         | PROPYL ALCOHOL, NORMAL, see   | 1274                 | 3           |         |
|  |  |                            |         | PROPYLAMINE   | 1277                 | 3           |         |
|  |  |                            |         | n-PROPYLBENZENE   | 2364                 | 3           |         |
|  |  |                            |         | Propyl chloride, see  | 1278                 | 3           |         |
|  |  |                            |         | n-PROPYL CHLOROFORMATE  | 2740                 | 6.1         |         |
|  |  |                            |         | PROPYLENE   | 1077                 | 2           |         |
|  |  |                            |         | PROPYLENE CHLOROHYDRIN  | 2611                 | 6.1         |         |
|  |  |                            |         | 1,2-PROPYLENEDIAMINE  | 2258                 | 8           |         |
|  |  |                            |         | Propylene dichloride, see   | 1279                 | 3           |         |
|  |  |                            |         | PROPYLENEIMINE, STABILIZED  | 1921                 | 3           |         |
|  |  |                            |         | PROPYLENE OXIDE   | 1280                 | 3           |         |

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| PROPYLENE TETRAMER  | 2850   | 3     |         | Quinone, see   | 2587   | 6.1   |         |
| Propylene trimer, see   | 2057   | 3     |         | RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - ARTICLES MANUFACTURED FROM NATURAL URANIUM or DEPLETED URANIUM or NATURAL THORIUM | 2909   | 7     |         |
| PROPYL FORMATES   | 1281   | 3     |         |  |        |       |         |
| n-PROPYL ISOCYANATE   | 2482   | 6.1   |         |  |        |       |         |
| Propyl mercaptan, see   | 2402   | 3     |         | RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - EMPTY PACKAGING   | 2908   | 7     |         |
| n-PROPYL NITRATE  | 1865   | 3     |         |  |        |       |         |
| PROPYLTRICHLOROSILANE   | 1816   | 8     |         | RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - INSTRUMENTS or ARTICLES   | 2911   | 7     |         |
| Pyrazine hexahydride, see   | 2579   | 8     |         |  |        |       |         |
| PYRETHROID PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C     | 3350   | 3     |         | RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - LIMITED QUANTITY OF MATERIAL  | 2910   | 7     |         |
| PYRETHROID PESTICIDE, LIQUID, TOXIC   | 3352   | 6.1   |         | RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-I), non fissile or fissile-excepted                                       | 2912   | 7     |         |
| PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C | 3351   | 6.1   |         |  |        |       |         |
| PYRETHROID PESTICIDE, SOLID, TOXIC  | 3349   | 6.1   |         | RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-II), FISSILE  | 3324   | 7     |         |
| PYRIDINE  | 1282   | 3     |         | RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-II), non fissile or fissile-excepted                                      | 3321   | 7     |         |
| Pyrophoric organometallic compound, water-reactive, n.o.s., liquid, see         | 3394   | 4.2   |         |  |        |       |         |
| Pyrophoric organometallic compound, water-reactive, n.o.s., solid, see          | 3393   | 4.2   |         | RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY, (LSA-III), FISSILE  | 3325   | 7     |         |
| PYROPHORIC ALLOY, N.O.S.  | 1383   | 4.2   |         | RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-III), non fissile or fissile-excepted                                     | 3322   | 7     |         |
| PYROPHORIC LIQUID, INORGANIC, N.O.S.  | 3194   | 4.2   |         |  |        |       |         |
| PYROPHORIC LIQUID, ORGANIC, N.O.S.  | 2845   | 4.2   |         | RADIOACTIVE MATERIAL, SURFACE CONTAMINATED OBJECTS (SCO-I or SCO-II), FISSILE  | 3326   | 7     |         |
| PYROPHORIC METAL, N.O.S.  | 1383   | 4.2   |         |  |        |       |         |
| PYROPHORIC SOLID, INORGANIC, N.O.S.   | 3200   | 4.2   |         | RADIOACTIVE MATERIAL, SURFACE CONTAMINATED OBJECTS (SCO-I or SCO-II), non fissile or fissile-excepted                      | 2913   | 7     |         |
| PYROPHORIC SOLID, ORGANIC, N.O.S.   | 2846   | 4.2   |         |  |        |       |         |
| PYROSULPHURYL CHLORIDE  | 1817   | 8     |         | RADIOACTIVE MATERIAL, TRANSPORTED UNDER SPECIAL ARRANGEMENT, FISSILE   | 3331   | 7     |         |
| Pyroxylin solution, see   | 2059   | 3     |         |  |        |       |         |
| PYRROLIDINE   | 1922   | 3     |         | RADIOACTIVE MATERIAL, TRANSPORTED UNDER SPECIAL ARRANGEMENT, non fissile or fissile-excepted                               | 2919   | 7     |         |
| QUINOLINE   | 2656   | 6.1   |         |  |        |       |         |

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| RADIOACTIVE MATERIAL, TYPE A PACKAGE, FISSILE, non-special form                         | 3327   | 7     |                    | REFRIGERANT GAS R 13, see    | 1022   | 2     |         |
|   |        |       |                    | REFRIGERANT GAS R 13B1, see  | 1009   | 2     |         |
| RADIOACTIVE MATERIAL, TYPE A PACKAGE, non-special form, non fissile or fissile-excepted | 2915   | 7     |                    | REFRIGERANT GAS R 14, see    | 1982   | 2     |         |
|   |        |       |                    | REFRIGERANT GAS R 21, see    | 1029   | 2     |         |
| RADIOACTIVE MATERIAL, TYPE A PACKAGE, SPECIAL FORM, FISSILE                             | 3333   | 7     |                    | REFRIGERANT GAS R 22, see    | 1018   | 2     |         |
|   |        |       |                    | REFRIGERANT GAS R 23, see    | 1984   | 2     |         |
| RADIOACTIVE MATERIAL, TYPE A PACKAGE, SPECIAL FORM, non fissile or fissile-excepted     | 3332   | 7     |                    | REFRIGERANT GAS R 32, see    | 3252   | 2     |         |
|   |        |       |                    | REFRIGERANT GAS R 40, see    | 1063   | 2     |         |
| RADIOACTIVE MATERIAL, TYPE B(M) PACKAGE, FISSILE  | 3329   | 7     |                    | REFRIGERANT GAS R 41, see    | 2454   | 2     |         |
|   |        |       |                    | REFRIGERANT GAS R 114, see   | 1958   | 2     |         |
| RADIOACTIVE MATERIAL, TYPE B(M) PACKAGE, non fissile or fissile-excepted                | 2917   | 7     |                    | REFRIGERANT GAS R 115, see   | 1020   | 2     |         |
|   |        |       |                    | REFRIGERANT GAS R 116, see   | 2193   | 2     |         |
| RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE  | 3328   | 7     |                    | REFRIGERANT GAS R 124, see   | 1021   | 2     |         |
|   |        |       |                    | REFRIGERANT GAS R 125, see   | 3220   | 2     |         |
| RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, non fissile or fissile-excepted                | 2916   | 7     |                    | REFRIGERANT GAS R 133a, see  | 1983   | 2     |         |
|   |        |       |                    | REFRIGERANT GAS R 134a, see  | 3159   | 2     |         |
| RADIOACTIVE MATERIAL, TYPE C PACKAGE, FISSILE   | 3330   | 7     |                    | REFRIGERANT GAS R 142b, see  | 2517   | 2     |         |
|   |        |       |                    | REFRIGERANT GAS R 143a, see  | 2035   | 2     |         |
| RADIOACTIVE MATERIAL, TYPE C PACKAGE, non fissile or fissile-excepted                   | 3323   | 7     |                    | REFRIGERANT GAS R 152a, see  | 1030   | 2     |         |
|   |        |       |                    | REFRIGERANT GAS R 161, see   | 2453   | 2     |         |
| RADIOACTIVE MATERIAL, URANIUM HEXAFLUORIDE, FISSILE                                     | 2977   | 7     |                    | REFRIGERANT GAS R 218, see   | 2424   | 2     |         |
|   |        |       |                    | REFRIGERANT GAS R 227, see   | 3296   | 2     |         |
| RADIOACTIVE MATERIAL, URANIUM HEXAFLUORIDE, non fissile or fissile-excepted             | 2978   | 7     |                    | REFRIGERANT GAS R 404A       | 3337   | 2     |         |
| Rags, oily  | 1856   | 4.2   | Not subject to ADN | REFRIGERANT GAS R 407A       | 3338   | 2     |         |
|   |        |       |                    | REFRIGERANT GAS R 407B       | 3339   | 2     |         |
| RDX, see  | 0072   | 1     |                    | REFRIGERANT GAS R 407C       | 3340   | 2     |         |
|   | 0391   | 1     |                    |                              |        |       |         |
|   | 0483   | 1     |                    |                              |        |       |         |
| RECEPTACLES, SMALL, CONTAINING GAS without a release device, non-refillable             | 2037   | 2     |                    | REFRIGERANT GAS R 500, see   | 2602   | 2     |         |
|   |        |       |                    | REFRIGERANT GAS R 502, see   | 1973   | 2     |         |
| Red phosphorus, see   | 1338   | 4.1   |                    | REFRIGERANT GAS R 503, see   | 2599   | 2     |         |
| REFRIGERANT GAS, N.O.S., such as mixture F1, mixture F2 or mixture P2                   | 1078   | 2     |                    | REFRIGERANT GAS R 1132a, see | 1959   | 2     |         |
|   |        |       |                    | REFRIGERANT GAS R 1216, see  | 1858   | 2     |         |
| REFRIGERANT GAS R 12, see   | 1028   | 2     |                    | REFRIGERANT GAS R 1318, see  | 2422   | 2     |         |
| REFRIGERANT GAS R 12B1, see   | 1974   | 2     |                    | REFRIGERANT GAS RC 318, see  | 1976   | 2     |         |



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| REFRIGERATING MACHINES containing flammable, non-toxic, liquefied gas                            | 3358                         | 2                |         | RUBIDIUM HYDROXIDE SOLUTION  | 2677         | 8          |         |
| REFRIGERATING MACHINES containing non-flammable, non-toxic, gases or ammonia solutions (UN 2672) | 2857                         | 2                |         | Saltpetre, see   | 1486         | 5.1        |         |
| REGULATED MEDICAL WASTE, N.O.S.  | 3291                         | 6.2              |         | SAMPLES, EXPLOSIVE, other than initiating explosive                  | 0190         | 1          |         |
| RELEASE DEVICES, EXPLOSIVE   | 0173                         | 1                |         | Sand acid, see   | 1778         | 8          |         |
| RESIN SOLUTION, flammable  | 1866                         | 3                |         | SEAT-BELT PRETENSIONERS  | 0503<br>3268 | 1<br>9     |         |
| Resorcin, see  | 2876                         | 6.1              |         | SEED CAKE with more than 1.5% oil and not more than 11% moisture     | 1386         | 4.2        |         |
| RESORCINOL   | 2876                         | 6.1              |         | SEED CAKE with not more than 1.5% oil and not more than 11% moisture | 2217         | 4.2        |         |
| RIVETS, EXPLOSIVE  | 0174                         | 1                |         | Seed expellers, see  | 1386<br>2217 | 4.2<br>4.2 |         |
| ROCKET MOTORS  | 0186<br>0280<br>0281         | 1<br>1<br>1      |         | SELENATES  | 2630         | 6.1        |         |
| ROCKET MOTORS, LIQUID FUELLED  | 0395<br>0396                 | 1<br>1           |         | SELENIC ACID   | 1905         | 8          |         |
| ROCKET MOTORS WITH HYPERGOLIC LIQUIDS with or without expelling charge                           | 0250<br>0322                 | 1<br>1           |         | SELENITES  | 2630         | 6.1        |         |
| ROCKETS with bursting charge   | 0180<br>0181<br>0182<br>0295 | 1<br>1<br>1<br>1 |         | SELENIUM COMPOUND, LIQUID, N.O.S.                                    | 3440         | 6.1        |         |
| ROCKETS with expelling charge  | 0436<br>0437<br>0438         | 1<br>1<br>1      |         | SELENIUM COMPOUND, SOLID, N.O.S.                                     | 3283         | 6.1        |         |
| ROCKETS with inert head  | 0183<br>0502                 | 1<br>1           |         | SELENIUM DISULPHIDE  | 2657         | 6.1        |         |
| ROCKETS, LINE-THROWING   | 0238<br>0240<br>0453         | 1<br>1<br>1      |         | SELENIUM HEXAFLUORIDE  | 2194         | 2          |         |
| ROCKETS, LIQUID FUELLED with bursting charge   | 0397<br>0398                 | 1<br>1           |         | SELENIUM OXYCHLORIDE   | 2879         | 8          |         |
| ROSIN OIL  | 1286                         | 3                |         | SELF-HEATING LIQUID, CORROSIVE, INORGANIC, N.O.S.                    | 3188         | 4.2        |         |
| RUBBER SCRAP, powdered or granulated   | 1345                         | 4.1              |         | SELF-HEATING LIQUID, CORROSIVE, ORGANIC, N.O.S.                      | 3185         | 4.2        |         |
| RUBBER SHODDY, powdered or granulated  | 1345                         | 4.1              |         | SELF-HEATING LIQUID, INORGANIC, N.O.S.                               | 3186         | 4.2        |         |
| RUBBER SOLUTION  | 1287                         | 3                |         | SELF-HEATING LIQUID, ORGANIC, N.O.S.                                 | 3183         | 4.2        |         |
| RUBIDIUM   | 1423                         | 4.3              |         | SELF-HEATING LIQUID, TOXIC, INORGANIC, N.O.S.                        | 3187         | 4.2        |         |
| RUBIDIUM HYDROXIDE   | 2678                         | 8                |         | SELF-HEATING LIQUID, TOXIC, ORGANIC, N.O.S.                          | 3184         | 4.2        |         |
|  |                              |                  |         | SELF-HEATING SOLID, CORROSIVE, INORGANIC, N.O.S.                     | 3192         | 4.2        |         |
|  |                              |                  |         | SELF-HEATING SOLID, CORROSIVE, ORGANIC, N.O.S.                       | 3126         | 4.2        |         |

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|---|--------|-------|---------------------|--|--------|-------|---------|
| SELF-HEATING SOLID, INORGANIC, N.O.S.               | 3190   | 4.2   |                     | SELF-REACTIVE SOLID TYPE D, TEMPERATURE CONTROLLED | 3236   | 4.1   |         |
| SELF-HEATING SOLID, ORGANIC, N.O.S.                 | 3088   | 4.2   |                     | SELF-REACTIVE SOLID TYPE E                         | 3228   | 4.1   |         |
| SELF-HEATING SOLID, OXIDIZING, N.O.S.               | 3127   | 4.2   | Carriage prohibited | SELF-REACTIVE SOLID TYPE E, TEMPERATURE CONTROLLED | 3238   | 4.1   |         |
| SELF-HEATING SOLID, TOXIC, INORGANIC, N.O.S.        | 3191   | 4.2   |                     | SELF-REACTIVE SOLID TYPE F                         | 3230   | 4.1   |         |
| SELF-HEATING SOLID, TOXIC, ORGANIC, N.O.S.          | 3128   | 4.2   |                     | SELF-REACTIVE SOLID TYPE F, TEMPERATURE CONTROLLED | 3240   | 4.1   |         |
| SELF-REACTIVE LIQUID TYPE B                         | 3221   | 4.1   |                     | SHALE OIL  | 1288   | 3     |         |
| SELF-REACTIVE LIQUID TYPE B, TEMPERATURE CONTROLLED | 3231   | 4.1   |                     | Shaped charges, see                                | 0059   | 1     |         |
| SELF-REACTIVE LIQUID TYPE C                         | 3223   | 4.1   |                     |  | 0439   | 1     |         |
| SELF-REACTIVE LIQUID TYPE C, TEMPERATURE CONTROLLED | 3233   | 4.1   |                     |  | 0440   | 1     |         |
| SELF-REACTIVE LIQUID TYPE D                         | 3225   | 4.1   |                     | Shellac, see                                       | 1263   | 3     |         |
| SELF-REACTIVE LIQUID TYPE D, TEMPERATURE CONTROLLED | 3235   | 4.1   |                     |  | 3066   | 8     |         |
| SELF-REACTIVE LIQUID TYPE E                         | 3227   | 4.1   |                     | SIGNAL DEVICES, HAND                               | 3469   | 3     |         |
| SELF-REACTIVE LIQUID TYPE E, TEMPERATURE CONTROLLED | 3237   | 4.1   |                     |  | 3470   | 8     |         |
| SELF-REACTIVE LIQUID TYPE F                         | 3229   | 4.1   |                     | SIGNALS, DISTRESS, ship                            | 0191   | 1     |         |
| SELF-REACTIVE LIQUID TYPE F, TEMPERATURE CONTROLLED | 3239   | 4.1   |                     |  | 0373   | 1     |         |
| SELF-REACTIVE SOLID TYPE B                          | 3222   | 4.1   |                     | SIGNALS, DISTRESS, ship, water-activated, see      | 0194   | 1     |         |
| SELF-REACTIVE SOLID TYPE B, TEMPERATURE CONTROLLED  | 3232   | 4.1   |                     |  | 0195   | 1     |         |
| SELF-REACTIVE SOLID TYPE C                          | 3224   | 4.1   |                     | SIGNALS, RAILWAY TRACK, EXPLOSIVE                  | 0505   | 1     |         |
| SELF-REACTIVE SOLID TYPE C, TEMPERATURE CONTROLLED  | 3234   | 4.1   |                     |  | 0506   | 1     |         |
| SELF-REACTIVE SOLID TYPE D                          | 3226   | 4.1   |                     | SIGNALS, SMOKE                                     | 0249   | 1     |         |
|   |        |       |                     |  | 0192   | 1     |         |
|   |        |       |                     | SILANE   | 0193   | 1     |         |
|   |        |       |                     | Silicofluoric acid, see                            | 0492   | 1     |         |
|   |        |       |                     | Silicofluorides, n.o.s., see                       | 0493   | 1     |         |
|   |        |       |                     | Silicon chloride, see                              | 0196   | 1     |         |
|   |        |       |                     | SILICON POWDER, AMORPHOUS                          | 0197   | 1     |         |
|   |        |       |                     | SILICON TETRACHLORIDE                              | 0313   | 1     |         |
|   |        |       |                     | SILICON TETRAFLUORIDE                              | 0487   | 1     |         |
|   |        |       |                     | SILVER ARSENITE                                    | 0507   | 1     |         |
|   |        |       |                     |  | 2203   | 2     |         |
|   |        |       |                     |  | 1778   | 8     |         |
|   |        |       |                     |  | 2856   | 6.1   |         |
|   |        |       |                     |  | 1818   | 8     |         |
|   |        |       |                     |  | 1346   | 4.1   |         |
|   |        |       |                     |  | 1818   | 8     |         |
|   |        |       |                     |  | 1859   | 2     |         |
|   |        |       |                     |  | 1683   | 6.1   |         |

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|--|--------|-------|--------------------|---|--------|-------|---------|
| SILVER CYANIDE   | 1684   | 6.1   |                    | Sodium chlorate mixed with dinitrotoluene, see                              | 0083   | 1     |         |
| SILVER NITRATE   | 1493   | 5.1   |                    | SODIUM CHLORITE   | 1496   | 5.1   |         |
| SILVER PICRATE, WETTED with not less than 30% water, by mass   | 1347   | 4.1   |                    | SODIUM CHLOROACETATE  | 2659   | 6.1   |         |
| SLUDGE ACID  | 1906   | 8     |                    | SODIUM CUPROCYANIDE, SOLID  | 2316   | 6.1   |         |
| SODA LIME with more than 4% sodium hydroxide   | 1907   | 8     |                    | SODIUM CUPROCYANIDE SOLUTION  | 2317   | 6.1   |         |
| SODIUM   | 1428   | 4.3   |                    | SODIUM CYANIDE, SOLID   | 1689   | 6.1   |         |
| Sodium aluminate, solid  | 2812   | 8     | Not subject to ADN | SODIUM CYANIDE, SOLUTION  | 3414   | 6.1   |         |
| SODIUM ALUMINATE SOLUTION  | 1819   | 8     |                    | Sodium dicyanocuprate (I), solid, see                                       | 2316   | 6.1   |         |
| SODIUM ALUMINIUM HYDRIDE   | 2835   | 4.3   |                    | Sodium dicyanocuprate (I) solution, see                                     | 2317   | 6.1   |         |
| SODIUM AMMONIUM VANADATE   | 2863   | 6.1   |                    | Sodium dimethylarsenate, see  | 1688   | 6.1   |         |
| SODIUM ARSANILATE  | 2473   | 6.1   |                    | SODIUM DINITRO-o-CRESOLATE, dry or wetted with less than 15% water, by mass | 0234   | 1     |         |
| SODIUM ARSENATE  | 1685   | 6.1   |                    | SODIUM DINITRO-o-CRESOLATE, WETTED with not less than 10% water, by mass    | 3369   | 4.1   |         |
| SODIUM ARSENITE, AQUEOUS SOLUTION  | 1686   | 6.1   |                    | SODIUM DINITRO-o-CRESOLATE, WETTED with not less than 15% water, by mass    | 1348   | 4.1   |         |
| SODIUM ARSENITE, SOLID   | 2027   | 6.1   |                    | Sodium dioxide, see   | 1504   | 5.1   |         |
| SODIUM AZIDE   | 1687   | 6.1   |                    | SODIUM DITHIONITE   | 1384   | 4.2   |         |
| Sodium bifluoride, see   | 2439   | 8     |                    | SODIUM FLUORIDE, SOLID  | 1690   | 6.1   |         |
| Sodium binoxide, see   | 1504   | 5.1   |                    | SODIUM FLUORIDE, SOLUTION   | 3415   | 6.1   |         |
| Sodium bisulphite solution, see  | 2693   | 8     |                    | SODIUM FLUOROACETATE  | 2629   | 6.1   |         |
| SODIUM BOROHYDRIDE   | 1426   | 4.3   |                    | SODIUM FLUROSILICATE  | 2674   | 6.1   |         |
| SODIUM BOROHYDRIDE AND SODIUM HYDROXIDE SOLUTION, with not more than 12% sodium borohydride and not more than 40% sodium hydroxide by mass | 3320   | 8     |                    | Sodium hexafluorosilicate, see  | 2674   | 6.1   |         |
| SODIUM BROMATE   | 1494   | 5.1   |                    | Sodium hydrate, see   | 1824   | 8     |         |
| SODIUM CACODYLATE  | 1688   | 6.1   |                    | SODIUM HYDRIDE  | 1427   | 4.3   |         |
| SODIUM CARBONATE PEROXYHYDRATE   | 3378   | 5.1   |                    | Sodium hydrogen 4-amino-phenylarsenate, see                                 | 2473   | 6.1   |         |
| SODIUM CHLORATE  | 1495   | 5.1   |                    | SODIUM HYDROGENDIFLUORIDE   | 2439   | 8     |         |
| SODIUM CHLORATE, AQUEOUS SOLUTION  | 2428   | 5.1   |                    | SODIUM HYDROSULPHIDE with less than 25% water of crystallization            | 2318   | 4.2   |         |

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| SODIUM HYDROSULPHIDE, HYDRATED with not less than 25% water of crystallization | 2949   | 8     |         | SODIUM SULPHIDE, ANHYDROUS   | 1385   | 4.2   |                    |
| SODIUM HYDROSULPHITE, see  | 1384   | 4.2   |         | SODIUM SULPHIDE with less than 30% water of crystallization  | 1385   | 4.2   |                    |
| SODIUM HYDROXIDE, SOLID  | 1823   | 8     |         | SODIUM SULPHIDE, HYDRATED with not less than 30% water   | 1849   | 8     |                    |
| SODIUM HYDROXIDE SOLUTION  | 1824   | 8     |         | SODIUM SUPEROXIDE  | 2547   | 5.1   |                    |
| Sodium metasilicate pentahydrate, see  | 3253   | 8     |         | SOLIDS CONTAINING CORROSIVE LIQUID, N.O.S.   | 3244   | 8     |                    |
| SODIUM METHYLATE   | 1431   | 4.2   |         | SOLIDS or mixtures of solids (such as preparations and wastes) CONTAINING FLAMMABLE LIQUID, N.O.S. having a flash-point up to 60°C | 3175   | 4.1   |                    |
| SODIUM METHYLATE SOLUTION in alcohol   | 1289   | 3     |         |  |        |       |                    |
| SODIUM MONOXIDE  | 1825   | 8     |         | SOLIDS CONTAINING TOXIC LIQUID, N.O.S.   | 3243   | 6.1   |                    |
| SODIUM NITRATE   | 1498   | 5.1   |         | Solvents, flammable, n.o.s., see   | 1993   | 3     |                    |
| SODIUM NITRATE AND POTASSIUM NITRATE MIXTURE                                   | 1499   | 5.1   |         | Solvents, flammable, toxic, n.o.s., see  | 1992   | 3     |                    |
| SODIUM NITRITE   | 1500   | 5.1   |         | SOUNDING DEVICES, EXPLOSIVE  | 0204   | 1     |                    |
| Sodium nitrite and potassium nitrate mixture, see                              | 1487   | 5.1   |         |  | 0296   | 1     |                    |
|  |        |       |         |  | 0374   | 1     |                    |
|  |        |       |         |  | 0375   | 1     |                    |
| SODIUM PENTACHLOROPHENATE  | 2567   | 6.1   |         | Squibs, see  | 0325   | 1     |                    |
|  |        |       |         |  | 0454   | 1     |                    |
| SODIUM PERBORATE MONOHYDRATE   | 3377   | 5.1   |         | Stain, see   | 1263   | 3     |                    |
|  |        |       |         |  | 3066   | 8     |                    |
| SODIUM PERCHLORATE   | 1502   | 5.1   |         |  | 3469   | 3     |                    |
|  |        |       |         |  | 3470   | 8     |                    |
| SODIUM PERMANGANATE  | 1503   | 5.1   |         | STANNIC CHLORIDE, ANHYDROUS  | 1827   | 8     |                    |
| SODIUM PEROXIDE  | 1504   | 5.1   |         |  |        |       |                    |
| SODIUM PEROXOBORATE, ANHYDROUS   | 3247   | 5.1   |         | STANNIC CHLORIDE PENTAHYDRATE  | 2440   | 8     |                    |
| SODIUM PERSULPHATE   | 1505   | 5.1   |         | STANNIC PHOSPHIDES   | 1433   | 4.3   |                    |
| SODIUM PHOSPHIDE   | 1432   | 4.3   |         | Steel swarf, see   | 2793   | 4.2   |                    |
| SODIUM PICRAMATE, dry or wetted with less than 20% water, by mass              | 0235   | 1     |         | STIBINE  | 2676   | 2     |                    |
|  |        |       |         | Straw  | 1327   | 4.1   | Not subject to ADN |
| SODIUM PICRAMATE, WETTED with not less than 20% water, by mass                 | 1349   | 4.1   |         | Strontium alloys, pyrophoric, see  | 1383   | 4.2   |                    |
| Sodium potassium alloys, liquid, see   | 1422   | 4.3   |         | STRONTIUM ARSENITE   | 1691   | 6.1   |                    |
| Sodium selenate, see   | 2630   | 6.1   |         | STRONTIUM CHLORATE   | 1506   | 5.1   |                    |
| Sodium selenite, see   | 2630   | 6.1   |         | Strontium dioxide, see   | 1509   | 5.1   |                    |
| Sodium silicofluoride, see   | 2674   | 6.1   |         | STRONTIUM NITRATE  | 1507   | 5.1   |                    |

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| STRONTIUM PERCHLORATE   | 1508   | 5.1   |                                | SUBSTITUTED NITROPHENOL PESTICIDE, SOLID, TOXIC   | 2779   | 6.1   |         |
| STRONTIUM PEROXIDE  | 1509   | 5.1   |                                | SULPHAMIC ACID  | 2967   | 8     |         |
| STRONTIUM PHOSPHIDE   | 2013   | 4.3   |                                | SULPHUR   | 1350   | 4.1   |         |
| STRYCHNINE  | 1692   | 6.1   |                                | SULPHUR CHLORIDES   | 1828   | 8     |         |
| STRYCHNINE SALTS  | 1692   | 6.1   |                                | Sulphur dichloride, see   | 1828   | 8     |         |
| STYPHNIC ACID, see  | 0219   | 1     |                                | SULPHUR DIOXIDE   | 1079   | 2     |         |
|   | 0394   | 1     |                                |   |        |       |         |
| STYRENE MONOMER, STABILIZED   | 2055   | 3     |                                | Sulphuretted hydrogen, see  | 1053   | 2     |         |
| SUBSTANCES, EVI, N.O.S., see  | 0482   | 1     |                                | SULPHUR HEXAFLUORIDE  | 1080   | 2     |         |
| SUBSTANCES, EXPLOSIVE, N.O.S.   | 0357   | 1     |                                | SULPHURIC ACID with more than 51% acid  | 1830   | 8     |         |
|   | 0358   | 1     |                                |   |        |       |         |
|   | 0359   | 1     |                                | SULPHURIC ACID with not more than 51% acid  | 2796   | 8     |         |
|   | 0473   | 1     |                                |   |        |       |         |
|   | 0474   | 1     |                                | SULPHURIC ACID, FUMING  | 1831   | 8     |         |
|   | 0475   | 1     |                                |   |        |       |         |
|   | 0476   | 1     |                                | SULPHURIC ACID, SPENT   | 1832   | 8     |         |
|   | 0477   | 1     |                                |   |        |       |         |
|   | 0478   | 1     |                                | Sulphuric and hydrofluoric acid mixture, see  | 1786   | 8     |         |
|   | 0479   | 1     |                                |   |        |       |         |
|   | 0480   | 1     |                                |   |        |       |         |
|   | 0481   | 1     |                                | SULPHUR, MOLTEN   | 2448   | 4.1   |         |
| SUBSTANCES, EXPLOSIVE, VERY INSENSITIVE, N.O.S.   | 0482   | 1     |                                | Sulphur monochloride, see   | 1828   | 8     |         |
| Substances liable to spontaneous combustion, n.o.s., see  | 2845   | 4.2   |                                | SULPHUROUS ACID   | 1833   | 8     |         |
|   | 2846   | 4.2   |                                |   |        |       |         |
|   | 3194   | 4.2   |                                | SULPHUR TETRAFLUORIDE   | 2418   | 2     |         |
|   | 3200   | 4.2   |                                |   |        |       |         |
| SUBSTANCES WITH A FLASH-POINT ABOVE 60 °C which are carried heated within a limiting range of 15K below their flash-point | 9001   | 3     | Dangerous in tank vessels only | SULPHUR TRIOXIDE, STABILIZED  | 1829   | 8     |         |
|   |        |       |                                | SULPHURYL CHLORIDE  | 1834   | 8     |         |
| SUBSTANCES WITH A FLASH-POINT ABOVE 60 °C AND NOT MORE THAN 100 °C, which do not belong to another Class                  | 9003   | 9     | Dangerous in tank vessels only | SULPHURYL FLUORIDE  | 2191   | 2     |         |
|   |        |       |                                | Talcum with tremolite and/or actinolite, see  | 2590   | 9     |         |
| SUBSTANCES WITH AN AUTO-IGNITION TEMPERATURE OF 200 °C AND BELOW, n.o.s.  | 9002   | 3     | Dangerous in tank vessels only | TARS, LIQUID, including road asphalt and oils, bitumen and cut backs, with a flash-point not greater than 60 °C | 1999   | 3     |         |
| SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C                                  | 2780   | 3     |                                | Tars, liquid, with a flash-point above 60 °C, at or above its flash-point, see                                  | 3256   | 3     |         |
|   |        |       |                                | Tars, liquid, at or above 100 °C and below its flash-point, see   | 3257   | 9     |         |
|   |        |       |                                | Tartar emetic, see  | 1551   | 6.1   |         |
| SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, TOXIC  | 3014   | 6.1   |                                | TEAR GAS CANDLES  | 1700   | 6.1   |         |
| SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C                              | 3013   | 6.1   |                                | TEAR GAS SUBSTANCE, LIQUID, N.O.S.  | 1693   | 6.1   |         |

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| TEAR GAS SUBSTANCE, SOLID, N.O.S.                                      | 3448   | 6.1   |         | Tetramethylene cyanide, see   | 2205   | 6.1   |                    |
| TELLURIUM COMPOUND, N.O.S.   | 3284   | 6.1   |         | Tetramethyl lead, see   | 1649   | 6.1   |                    |
| TELLURIUM HEXAFLUORIDE   | 2195   | 2     |         | TETRAMETHYLSILANE   | 2749   | 3     |                    |
| TERPENE HYDROCARBONS, N.O.S.   | 2319   | 3     |         | TETRANITROANILINE   | 0207   | 1     |                    |
| TERPINOLENE  | 2541   | 3     |         | TETRANITROMETHANE   | 1510   | 5.1   |                    |
| TETRABROMOETHANE   | 2504   | 6.1   |         | TETRAPROPYL ORTHOTITANATE   | 2413   | 3     |                    |
| 1,1,2,2-TETRACHLOROETHANE  | 1702   | 6.1   |         | TETRAZENE, WETTED with not less than 30% water, or mixture of alcohol and water, by mass, see | 0114   | 1     |                    |
| TETRACHLOROETHYLENE  | 1897   | 6.1   |         | TETRAZOL-1-ACETIC ACID  | 0407   | 1     |                    |
| TETRAETHYL DITHIO-PYROPHOSPHATE  | 1704   | 6.1   |         | 1H-TETRAZOLE  | 0504   | 1     |                    |
| TETRAETHYLENEMPENTAMINE  | 2320   | 8     |         | TETRYL, see   | 0208   | 1     |                    |
| Tetraethyl lead, see   | 1649   | 6.1   |         | Textile waste, wet  | 1857   | 4.2   | Not subject to ADN |
| TETRAETHYL SILICATE  | 1292   | 3     |         | THALLIUM CHLORATE   | 2573   | 5.1   |                    |
| Tetraethoxysilane, see   | 1292   | 3     |         | Thallium (I) chlorate, see  | 2573   | 5.1   |                    |
| Tetrafluorodichloroethane, see   | 1958   | 2     |         | THALLIUM COMPOUND, N.O.S.   | 1707   | 6.1   |                    |
| 1,1,1,2-TETRAFLUOROETHANE  | 3159   | 2     |         | THALLIUM NITRATE  | 2727   | 6.1   |                    |
| TETRAFLUOROETHYLENE, STABILIZED  | 1081   | 2     |         | Thallium (I) nitrate, see   | 2727   | 6.1   |                    |
| TETRAFLUOROMETHANE   | 1982   | 2     |         | Thallos chlorate, see   | 2573   | 5.1   |                    |
| 1,2,3,6-TETRAHYDRO-BENZALDEHYDE  | 2498   | 3     |         | 4-THIAPENTANAL  | 2785   | 6.1   |                    |
| TETRAHYDROFURAN  | 2056   | 3     |         | Thia-4-pentanal, see  | 2785   | 6.1   |                    |
| TETRAHYDRO-FURFURYLAMINE   | 2943   | 3     |         | THIOACETIC ACID   | 2436   | 3     |                    |
| Tetrahydro-1,4-oxazine, see  | 2054   | 3     |         | THIOCARBAMATE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C                | 2772   | 3     |                    |
| TETRAHYDROPHTHALIC ANHYDRIDES with more than 0.05% of maleic anhydride | 2698   | 8     |         | THIOCARBAMATE PESTICIDE, LIQUID, TOXIC  | 3006   | 6.1   |                    |
| 1,2,3,6-TETRAHYDROPYRIDINE   | 2410   | 3     |         | THIOCARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C            | 3005   | 6.1   |                    |
| TETRAHYDROTHIOPHENE  | 2412   | 3     |         | THIOCARBAMATE PESTICIDE, SOLID, TOXIC   | 2771   | 6.1   |                    |
| Tetramethoxysilane, see  | 2606   | 6.1   |         | THIOGLYCOL  | 2966   | 6.1   |                    |
| TETRAMETHYLAMMONIUM HYDROXIDE, SOLID                                   | 3423   | 8     |         | THIOGLYCOLIC ACID   | 1940   | 8     |                    |
| TETRAMETHYLAMMONIUM HYDROXIDE, SOLUTION                                | 1835   | 8     |         | THIOLACTIC ACID   | 2936   | 6.1   |                    |
| Tetramethylene, see  | 2601   | 2     |         | THIONYL CHLORIDE  | 1836   | 8     |                    |

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| THIOPHENE  | 2414   | 3     |         | 2,4-TOLUYLENEDIAMINE, SOLID   | 1709   | 6.1   |         |
| Thiophenol, see  | 2337   | 6.1   |         |   |        |       |         |
| THIOPHOSGENE   | 2474   | 6.1   |         | 2,4-TOLUYLENEDIAMINE, SOLUTION  | 3418   | 6.1   |         |
| THIOPHOSPHORYL CHLORIDE                                | 1837   | 8     |         | Toluylene diisocyanate, see   | 2078   | 6.1   |         |
| THIOUREA DIOXIDE                                       | 3341   | 4.2   |         | Tolylene diisocyanate, see  | 2078   | 6.1   |         |
| Tin (IV) chloride, anhydrous, see                      | 1827   | 8     |         | Tolyethylene, inhibited, see  | 2618   | 3     |         |
| Tin (IV) chloride pentahydrate, see                    | 2440   | 8     |         | TORPEDOES with bursting charge  | 0329   | 1     |         |
| TINCTURES, MEDICINAL                                   | 1293   | 3     |         |   | 0330   | 1     |         |
|  |        |       |         |   | 0451   | 1     |         |
| Tin tetrachloride, see                                 | 1827   | 8     |         | TORPEDOES, LIQUID FUELLED with inert head   | 0450   | 1     |         |
| TITANIUM DISULPHIDE                                    | 3174   | 4.2   |         | TORPEDOES, LIQUID FUELLED with or without bursting charge   | 0449   | 1     |         |
| TITANIUM HYDRIDE                                       | 1871   | 4.1   |         |   |        |       |         |
| TITANIUM POWDER, DRY                                   | 2546   | 4.2   |         | TOXIC BY INHALATION LIQUID, N.O.S. with an inhalation toxicity lower than or equal to 200 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 500 LC <sub>50</sub>            | 3381   | 6.1   |         |
| TITANIUM POWDER, WETTED with not less than 25% water   | 1352   | 4.1   |         |   |        |       |         |
| TITANIUM SPONGE GRANULES                               | 2878   | 4.1   |         | TOXIC BY INHALATION LIQUID, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 10 LC <sub>50</sub>            | 3382   | 6.1   |         |
| TITANIUM SPONGE POWDERS                                | 2878   | 4.1   |         |   |        |       |         |
| TITANIUM TETRACHLORIDE                                 | 1838   | 8     |         | TOXIC BY INHALATION LIQUID, CORROSIVE, N.O.S. with an inhalation toxicity lower than or equal to 200 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 500 LC <sub>50</sub> | 3389   | 6.1   |         |
| TITANIUM TRICHLORIDE MIXTURE                           | 2869   | 8     |         |   |        |       |         |
| TITANIUM TRICHLORIDE MIXTURE, PYROPHORIC               | 2441   | 4.2   |         | TOXIC BY INHALATION LIQUID, CORROSIVE, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 10 LC <sub>50</sub> | 3390   | 6.1   |         |
| TITANIUM TRICHLORIDE, PYROPHORIC                       | 2441   | 4.2   |         |   |        |       |         |
| TNT, see   | 0209   | 1     |         |   |        |       |         |
|  | 0388   | 1     |         |   |        |       |         |
|  | 0389   | 1     |         |   |        |       |         |
| TNT mixed with aluminium, see                          | 0390   | 1     |         |   |        |       |         |
| TNT, WETTED with not less than 30% water, by mass, see | 1356   | 4.1   |         | TOXIC BY INHALATION LIQUID, FLAMMABLE, N.O.S. with an inhalation toxicity lower than or equal to 200 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 500 LC <sub>50</sub> | 3383   | 6.1   |         |
| TNT, WETTED with not less than 10% water, by mass, see | 3366   | 4.1   |         |   |        |       |         |
| Toe puffs, nitrocellulose base, see                    | 1353   | 4.1   |         |   |        |       |         |
| TOLUENE  | 1294   | 3     |         | TOXIC BY INHALATION LIQUID, FLAMMABLE, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 10 LC <sub>50</sub> | 3384   | 6.1   |         |
| TOLUENE DIISOCYANATE                                   | 2078   | 6.1   |         |   |        |       |         |
| TOLUIDINES, LIQUID                                     | 1708   | 6.1   |         |   |        |       |         |
| TOLUIDINES, SOLID                                      | 3451   | 6.1   |         |   |        |       |         |
| Toluol, see  | 1294   | 3     |         |   |        |       |         |

| Name and description   | UN No. | Class | Remarks | Name and description  | UN No.       | Class  | Remarks |
|--|--------|-------|---------|---|--------------|--------|---------|
| TOXIC BY INHALATION LIQUID, OXIDIZING, N.O.S. with an inhalation toxicity lower than or equal to 200 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 500 LC <sub>50</sub>      | 3387   | 6.1   |         | TOXIC SOLID, INORGANIC, N.O.S.  | 3288         | 6.1    |         |
|  |        |       |         | TOXIC SOLID, ORGANIC, N.O.S.  | 2811         | 6.1    |         |
|  |        |       |         | TOXIC SOLID, OXIDIZING, N.O.S.  | 3086         | 6.1    |         |
| TOXIC BY INHALATION LIQUID, OXIDIZING, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 10 LC <sub>50</sub>      | 3387   | 6.1   |         | TOXIC SOLID, SELF-HEATING, N.O.S.   | 3124         | 6.1    |         |
|  |        |       |         | TOXIC SOLID, WATER-REACTIVE, N.O.S.   | 3125         | 6.1    |         |
| TOXIC BY INHALATION LIQUID, OXIDIZING, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 10 LC <sub>50</sub>      | 3388   | 6.1   |         | TOXINS, EXTRACTED FROM LIVING SOURCES, LIQUID, N.O.S.                         | 3172         | 6.1    |         |
|  |        |       |         | TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S.                          | 3462         | 6.1    |         |
| TOXIC BY INHALATION LIQUID, WATER-REACTIVE, N.O.S. with an inhalation toxicity lower than or equal to 200 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 500 LC <sub>50</sub> | 3385   | 6.1   |         | TRACERS FOR AMMUNITION  | 0212<br>0306 | 1<br>1 |         |
|  |        |       |         | Tremolite, see  | 2590         | 9      |         |
|  |        |       |         | TRIALLYLAMINE   | 2610         | 3      |         |
| TOXIC BY INHALATION LIQUID, WATER-REACTIVE, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 10 LC <sub>50</sub> | 3386   | 6.1   |         | TRIALLYL BORATE   | 2609         | 6.1    |         |
|  |        |       |         | TRIAZINE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash-point less than 23 °C     | 2764         | 3      |         |
| TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S.   | 3289   | 6.1   |         | TRIAZINE PESTICIDE, LIQUID, TOXIC   | 2998         | 6.1    |         |
| TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.   | 2927   | 6.1   |         | TRIAZINE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash-point not less than 23 °C | 2997         | 6.1    |         |
| TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.   | 2929   | 6.1   |         | TRIAZINE PESTICIDE, SOLID, TOXIC  | 2763         | 6.1    |         |
| TOXIC LIQUID, INORGANIC, N.O.S.  | 3287   | 6.1   |         | Tribromoborane, see   | 2692         | 8      |         |
| TOXIC LIQUID, ORGANIC, N.O.S.  | 2810   | 6.1   |         | TRIBUTYLAMINE   | 2542         | 6.1    |         |
| TOXIC LIQUID, OXIDIZING, N.O.S.  | 3122   | 6.1   |         | TRIBUTYLPHOSPHANE   | 3254         | 4.2    |         |
| TOXIC LIQUID, WATER-REACTIVE, N.O.S.   | 3123   | 6.1   |         | Trichloroacetaldehyde, see  | 2075         | 6.1    |         |
| TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S.  | 3290   | 6.1   |         | TRICHLOROACETIC ACID  | 1839         | 8      |         |
|  |        |       |         | TRICHLOROACETIC ACID SOLUTION   | 2564         | 8      |         |
| TOXIC SOLID, CORROSIVE, ORGANIC, N.O.S.  | 2928   | 6.1   |         | Trichloroacetaldehyde, see  | 2075         | 6.1    |         |
| TOXIC SOLID, FLAMMABLE, ORGANIC, N.O.S.  | 2930   | 6.1   |         | TRICHLOROACETYL CHLORIDE  | 2442         | 8      |         |
|  |        |       |         | TRICHLOROBENZENES, LIQUID   | 2321         | 6.1    |         |
|  |        |       |         | TRICHLOROBUTENE   | 2322         | 6.1    |         |



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|---|--------|-------|---------|---|--------|-------|---------|
| 1,1,1-TRICHLOROETHANE   | 2831   | 6.1   |         | 1,3,5-TRIMETHYL-BENZENE   | 2325   | 3     |         |
| TRICHLOROETHYLENE   | 1710   | 6.1   |         | TRIMETHYL BORATE  | 2416   | 3     |         |
| TRICHLOROISOCYANURIC ACID, DRY  | 2468   | 5.1   |         | TRIMETHYLCHLORO-SILANE  | 1298   | 3     |         |
| Trichloronitromethane, see  | 1580   | 6.1   |         | TRIMETHYLCYCLO-<br>HEXYLAMINE   | 2326   | 8     |         |
| TRICHLOROSILANE   | 1295   | 4.3   |         | Trimethylene chlorobromide, see   | 2688   | 6.1   |         |
| 1,3,5-Trichloro-s-triazine-2,4,6-trione, see                                      | 2468   | 5.1   |         | TRIMETHYLHEXA-<br>METHYLENEDIAMINES   | 2327   | 8     |         |
| 2,4,6-Trichloro-1,3,5- triazine, see  | 2670   | 8     |         | TRIMETHYLHEXAMETHYLENE<br>DIISOCYANATE                                      | 2328   | 6.1   |         |
| TRICRESYL PHOSPHATE with<br>more than 3% ortho isomer                             | 2574   | 6.1   |         | 2,4,4-Trimethylpentene-1, see   | 2050   | 3     |         |
| TRIETHYLAMINE   | 1296   | 3     |         | 2,4,4-Trimethylpentene-2, see   | 2050   | 3     |         |
| Triethyl borate, see  | 1176   | 3     |         | TRIMETHYL PHOSPHITE   | 2329   | 3     |         |
| TRIETHYLENETETRAMINE  | 2259   | 8     |         | TRINITROANILINE   | 0153   | 1     |         |
| Triethyl orthoformate, see  | 2524   | 3     |         | TRINITROANISOLE   | 0213   | 1     |         |
| TRIETHYL PHOSPHITE  | 2323   | 3     |         | TRINITROBENZENE, dry or wetted<br>with less than 30% water, by mass         | 0214   | 1     |         |
| TRIFLUOROACETIC ACID  | 2699   | 8     |         | TRINITROBENZENE, WETTED<br>with not less than 10% water, by<br>mass         | 3367   | 4.1   |         |
| TRIFLUOROACETYL CHLORIDE  | 3057   | 2     |         | TRINITROBENZENE, WETTED<br>with not less than 30% water, by<br>mass         | 1354   | 4.1   |         |
| Trifluorobromomethane, see  | 1009   | 2     |         | TRINITROBENZENE-<br>SULPHONIC ACID  | 0386   | 1     |         |
| Trifluorochloroethane, see  | 1983   | 2     |         | TRINITROBENZOIC ACID, dry or<br>wetted with less than 30% water, by<br>mass | 0215   | 1     |         |
| TRIFLUOROCHLORO-<br>ETHYLENE, STABILIZED  | 1082   | 2     |         | TRINITROBENZOIC ACID,<br>WETTED with not less than 10%<br>water, by mass    | 3368   | 4.1   |         |
| Trifluorochloromethane, see   | 1022   | 2     |         | TRINITROBENZOIC ACID,<br>WETTED with not less than 30%<br>water, by mass    | 1355   | 4.1   |         |
| 1,1,1-TRIFLUOROETHANE   | 2035   | 2     |         | TRINITROCHLOROENZENE  | 0155   | 1     |         |
| TRIFLUOROMETHANE  | 1984   | 2     |         | TRINITROCHLOROENZENE<br>WETTED with not less than 10%<br>water, by mass     | 3365   | 4.1   |         |
| TRIFLUOROMETHANE,<br>REFRIGERATED LIQUID  | 3136   | 2     |         | TRINITRO-m-CRESOL   | 0216   | 1     |         |
| 2-TRIFLUOROMETHYLANILINE  | 2942   | 6.1   |         | TRINITROFLUORENONE  | 0387   | 1     |         |
| 3-TRIFLUOROMETHYLANILINE  | 2948   | 6.1   |         | TRINITRONAPHTHALENE   | 0217   | 1     |         |
| TRIISOBUTYLENE  | 2324   | 3     |         |   |        |       |         |
| TRIISOPROPYL BORATE   | 2616   | 3     |         |   |        |       |         |
| TRIMETHYLACETYL CHLORIDE  | 2438   | 6.1   |         |   |        |       |         |
| TRIMETHYLAMINE,<br>ANHYDROUS  | 1083   | 2     |         |   |        |       |         |
| TRIMETHYLAMINE, AQUEOUS<br>SOLUTION, not more than 50%<br>trimethylamine, by mass | 1297   | 3     |         |   |        |       |         |

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|--|--------|-------|---------|---|--------|-------|--------------------|
| TRINITROPHENETOLE  | 0218   | 1     |         | UNDECANE  | 2330   | 3     |                    |
| TRINITROPHENOL, dry or wetted with less than 30% water, by mass                                      | 0154   | 1     |         | UREA HYDROGEN PEROXIDE  | 1511   | 5.1   |                    |
| TRINITROPHENOL (PICRIC ACID), WETTED with not less than 30% water, by mass                           | 1344   | 4.1   |         | UREA NITRATE, dry or wetted with less than 20% water, by mass       | 0220   | 1     |                    |
| TRINITROPHENOL WETTED with not less than 10% water, by mass  | 3364   | 4.1   |         | UREA NITRATE, WETTED with not less than 10% water, by mass          | 3370   | 4.1   |                    |
| TRINITROPHENYL-METHYLNITRAMINE   | 0208   | 1     |         | UREA NITRATE, WETTED with not less than 20% water, by mass          | 1357   | 4.1   |                    |
| TRINITRORESORCINOL, dry or wetted with less than 20% water, or mixture of alcohol and water, by mass | 0219   | 1     |         | Valeral, see  | 2058   | 3     |                    |
| TRINITRORESORCINOL, WETTED with not less than 20% water, or mixture of alcohol and water, by mass    | 0394   | 1     |         | VALERALDEHYDE   | 2058   | 3     |                    |
| TRINITROTOLUENE (TNT), dry or wetted with less than 30% water, by mass                               | 0209   | 1     |         | n-Valeraldehyde, see  | 2058   | 3     |                    |
| TRINITROTOLUENE AND HEXANITROSTILBENE MIXTURE  | 0388   | 1     |         | Valeric aldehyde, see   | 2058   | 3     |                    |
| TRINITROTOLUENE MIXTURE CONTAINING TRINITROBENZENE AND HEXANITROSTILBENE                             | 0389   | 1     |         | VALERYL CHLORIDE  | 2502   | 8     |                    |
| TRINITROTOLUENE AND TRINITROBENZENE MIXTURE  | 0388   | 1     |         | VANADIUM COMPOUND, N.O.S.   | 3285   | 6.1   |                    |
| TRINITROTOLUENE, WETTED with not less than 10% water, by mass  | 3366   | 4.1   |         | Vanadium (IV) oxide sulphate, see                                   | 2931   | 6.1   |                    |
| TRINITROTOLUENE, WETTED with not less than 30% water, by mass  | 1356   | 4.1   |         | Vanadium oxysulphate, see   | 2931   | 6.1   |                    |
| TRIPROPYLAMINE   | 2260   | 3     |         | VANADIUM OXYTRICHLORIDE   | 2443   | 8     |                    |
| TRIPROPYLENE   | 2057   | 3     |         | VANADIUM PENTOXIDE, non-fused form                                  | 2862   | 6.1   |                    |
| TRIS-(1-AZIRIDINYL) PHOSPHINE OXIDE SOLUTION   | 2501   | 6.1   |         | VANADIUM TETRACHLORIDE  | 2444   | 8     |                    |
| TRITONAL   | 0390   | 1     |         | VANADIUM TRICHLORIDE  | 2475   | 8     |                    |
| Tropilidene, see   | 2603   | 3     |         | VANADYL SULPHATE  | 2931   | 6.1   |                    |
| TUNGSTEN HEXAFLUORIDE  | 2196   | 2     |         | Varnish, see  | 1263   | 3     |                    |
| TURPENTINE   | 1299   | 3     |         |   | 3066   | 8     |                    |
| TURPENTINE SUBSTITUTE  | 1300   | 3     |         |   | 3469   | 3     |                    |
|  |        |       |         | Vehicle, flammable gas powered or vehicle, flammable liquid powered | 3470   | 8     |                    |
|  |        |       |         |   | 3166   | 9     | Not subject to ADN |
|  |        |       |         | Villiaumite, see  | 1690   | 6.1   |                    |
|  |        |       |         | VINYL ACETATE, STABILIZED   | 1301   | 3     |                    |
|  |        |       |         | Vinylbenzene, see   | 2055   | 3     |                    |
|  |        |       |         | VINYL BROMIDE, STABILIZED   | 1085   | 2     |                    |
|  |        |       |         | VINYL BUTYRATE, STABILIZED  | 2838   | 3     |                    |
|  |        |       |         | VINYL CHLORIDE, STABILIZED  | 1086   | 2     |                    |
|  |        |       |         | VINYL CHLOROACETATE   | 2589   | 6.1   |                    |
|  |        |       |         | VINYL ETHYL ETHER, STABILIZED                                       | 1302   | 3     |                    |
|  |        |       |         | VINYL FLUORIDE, STABILIZED  | 1860   | 2     |                    |

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|---|--------|-------|---------------------|---|--------|-------|--------------------|
| VINYLDENE CHLORIDE, STABILIZED                                    | 1303   | 3     |                     | WOOD PRESERVATIVES, LIQUID              | 1306   | 3     |                    |
| VINYL ISOBUTYL ETHER, STABILIZED                                  | 1304   | 3     |                     | Wool waste, wet                         | 1387   | 4.2   | Not subject to ADN |
| VINYL METHYL ETHER, STABILIZED                                    | 1087   | 2     |                     | XANTHATES                               | 3342   | 4.2   |                    |
| VINYLPYRIDINES, STABILIZED  | 3073   | 6.1   |                     | XENON                                   | 2036   | 2     |                    |
| VINYLTOLUENES, STABILIZED   | 2618   | 3     |                     | XENON, REFRIGERATED LIQUID              | 2591   | 2     |                    |
| VINYLTRICHLOROSILANE  | 1305   | 3     |                     | XYLENES                                 | 1307   | 3     |                    |
| Warheads for guided missiles, see                                 | 0286   | 1     |                     | XYLENOLS, LIQUID                        | 3430   | 6.1   |                    |
|   | 0287   | 1     |                     |   |        |       |                    |
|   | 0369   | 1     |                     | XYLENOLS, SOLID                         | 2261   | 6.1   |                    |
|   | 0370   | 1     |                     |   |        |       |                    |
|   | 0371   | 1     |                     | XYLIDINES, LIQUID                       | 1711   | 6.1   |                    |
| WARHEADS, ROCKET with burster or expelling charge                 | 0370   | 1     |                     | XYLIDINES, SOLID                        | 3452   | 6.1   |                    |
|   | 0371   | 1     |                     |   |        |       |                    |
| WARHEADS, ROCKET with bursting charge                             | 0286   | 1     |                     | Xylols, see                             | 1307   | 3     |                    |
|   | 0287   | 1     |                     | XYLYL BROMIDE, LIQUID                   | 1701   | 6.1   |                    |
|   | 0369   | 1     |                     |   |        |       |                    |
| WARHEADS, TORPEDO with bursting charge                            | 0221   | 1     |                     | XYLYL BROMIDE, SOLID                    | 3417   | 6.1   |                    |
|   |        |       |                     | ZINC AMMONIUM NITRITE                   | 1512   | 5.1   |                    |
|   |        |       |                     | ZINC ARSENATE                           | 1712   | 6.1   |                    |
| WATER-REACTIVE LIQUID, N.O.S.                                     | 3148   | 4.3   |                     | ZINC ARSENATE AND ZINC ARSENITE MIXTURE | 1712   | 6.1   |                    |
| WATER-REACTIVE LIQUID, CORROSIVE, N.O.S.                          | 3129   | 4.3   |                     | ZINC ARSENITE                           | 1712   | 6.1   |                    |
| WATER-REACTIVE LIQUID, TOXIC, N.O.S.                              | 3130   | 4.3   |                     | ZINC ASHES                              | 1435   | 4.3   |                    |
|   |        |       |                     | Zinc bisulphite solution, see           | 2693   | 8     |                    |
| WATER-REACTIVE SOLID, N.O.S.                                      | 2813   | 4.3   |                     | ZINC BROMATE                            | 2469   | 5.1   |                    |
| WATER-REACTIVE SOLID, CORROSIVE, N.O.S.                           | 3131   | 4.3   |                     | ZINC CHLORATE                           | 1513   | 5.1   |                    |
|   |        |       |                     | ZINC CHLORIDE, ANHYDROUS                | 2331   | 8     |                    |
| WATER-REACTIVE SOLID, FLAMMABLE, N.O.S.                           | 3132   | 4.3   |                     | ZINC CHLORIDE SOLUTION                  | 1840   | 8     |                    |
| WATER-REACTIVE SOLID, OXIDIZING, N.O.S.                           | 3133   | 4.3   | Carriage prohibited | ZINC CYANIDE                            | 1713   | 6.1   |                    |
|   |        |       |                     | ZINC DITHIONITE                         | 1931   | 9     |                    |
| WATER-REACTIVE SOLID, SELF-HEATING, N.O.S.                        | 3135   | 4.3   |                     | ZINC DUST                               | 1436   | 4.3   |                    |
| WATER-REACTIVE SOLID, TOXIC, N.O.S.                               | 3134   | 4.3   |                     | ZINC FLUROSILICATE                      | 2855   | 6.1   |                    |
|   |        |       |                     | Zinc hexafluorosilicate, see            | 2855   | 6.1   |                    |
| White arsenic, see  | 1561   | 6.1   |                     | ZINC HYDROSULPHITE, see                 | 1931   | 9     |                    |
| WHITE ASBESTOS (chrysotile, actinolite, anthophyllite, tremolite) | 2590   | 9     |                     | ZINC NITRATE                            | 1514   | 5.1   |                    |
| White spirit, see   | 1300   | 3     |                     | ZINC PERMANGANATE                       | 1515   | 5.1   |                    |

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|--|--------|-------|---------|--|--------|-------|---------|
| ZINC PEROXIDE  | 1516   | 5.1   |         | ZIRCONIUM HYDRIDE  | 1437   | 4.1   |         |
| ZINC PHOSPHIDE   | 1714   | 4.3   |         | ZIRCONIUM NITRATE  | 2728   | 5.1   |         |
| ZINC POWDER  | 1436   | 4.3   |         | ZIRCONIUM PICRAMATE, dry or wetted with less than 20% water, by mass | 0236   | 1     |         |
| ZINC RESINATE  | 2714   | 4.1   |         |  |        |       |         |
| Zinc selenate, see   | 2630   | 4.1   |         | ZIRCONIUM PICRAMATE, WETTED with not less than 20% water, by mass    | 1517   | 4.1   |         |
| Zinc selenite, see   | 2630   | 4.1   |         |  |        |       |         |
| Zinc silicofluoride, see   | 2855   | 6.1   |         | ZIRCONIUM POWDER, DRY  | 2008   | 4.2   |         |
| ZIRCONIUM, DRY, coiled wire, finished metal sheets, strip (thinner than 254 microns but not thinner than 18 microns) | 2858   | 4.1   |         | ZIRCONIUM POWDER, WETTED with not less than 25% water                | 1358   | 4.1   |         |
|  |        |       |         | ZIRCONIUM SCRAP  | 1932   | 4.2   |         |
| ZIRCONIUM, DRY, finished sheets, strip or coiled wire  | 2009   | 4.2   |         | ZIRCONIUM SUSPENDED IN A FLAMMABLE LIQUID                            | 1308   | 3     |         |
|  |        |       |         | ZIRCONIUM TETRACHLORIDE  | 2503   | 8     |         |



### CHAPTER 3.3

#### SPECIAL PROVISIONS APPLICABLE TO CERTAIN ARTICLES OR SUBSTANCES

- 3.3.1 When Column (6) of Table A of Chapter 3.2 indicates that a special provision is relevant to a substance or article, the meaning and requirements of that special provision are as set forth below.
- 16 Samples of new or existing explosive substances or articles may be carried as directed by the competent authorities (see 2.2.1.1.3) for purposes including: testing, classification, research and development, quality control, or as a commercial sample. Explosive samples which are not wetted or desensitised shall be limited to 10 kg in small packages as specified by the competent authorities. Explosive samples which are wetted or desensitised shall be limited to 25 kg.
  - 23 Even though this substance has a flammability hazard, it only exhibits such hazard under extreme fire conditions in confined areas.
  - 32 This substance is not subject to the requirements of ADN when in any other form.
  - 37 This substance is not subject to the requirements of ADN when coated.
  - 38 This substance is not subject to the requirements of ADN when it contains not more than 0.1% calcium carbide.
  - 39 This substance is not subject to the requirements of ADN when it contains less than 30% or not less than 90% silicon.
  - 43 When offered for carriage as pesticides, these substances shall be carried under the relevant pesticide entry and in accordance with the relevant pesticide provisions (see 2.2.61.1.10 to 2.2.61.1.11.2).
  - 45 Antimony sulphides and oxides which contain not more than 0.5% of arsenic calculated on the total mass are not subject to the requirements of ADN.
  - 47 Ferricyanides and ferrocyanides are not subject to the requirements of ADN.
  - 48 The carriage of this substance, when it contains more than 20% hydrocyanic acid, is prohibited.
  - 59 These substances are not subject to the requirements of ADN when they contain not more than 50% magnesium.
  - 60 If the concentration is more than 72%, the carriage of this substance is prohibited.
  - 61 The technical name which shall supplement the proper shipping name shall be the ISO common name (see also ISO 1750:1981 "*Pesticides and other agrochemicals - common names*", as amended), other name listed in the WHO "*Recommended Classification of Pesticides by Hazard and Guidelines to Classification*" or the name of the active substance (see also 3.1.2.8.1 and 3.1.2.8.1.1).
  - 62 This substance is not subject to the requirements of ADN when it contains not more than 4% sodium hydroxide.

- 65 Hydrogen peroxide aqueous solutions with less than 8% hydrogen peroxide are not subject to the requirements of ADN.
- 103 The carriage of ammonium nitrites and mixtures of an inorganic nitrite with an ammonium salt is prohibited.
- 105 Nitrocellulose meeting the descriptions of UN No. 2556 or UN No. 2557 may be classified in Class 4.1.
- 113 The carriage of chemically unstable mixtures is prohibited.
- 119 Refrigerating machines include machines or other appliances which have been designed for the specific purpose of keeping food or other items at a low temperature in an internal compartment, and air conditioning units. Refrigerating machines and refrigerating machine components are not subject to the provisions of ADN if they contain less than 12 kg of gas in Class 2, group A or O according to 2.2.2.1.3, or if they contain less than 12 litres ammonia solution (UN No. 2672).
- 122 The subsidiary risks, control and emergency temperatures if any, and the UN number (generic entry) for each of the currently assigned organic peroxide formulations are given in 2.2.52.4.
- 127 Other inert material or inert material mixture may be used, provided this inert material has identical phlegmatizing properties.
- 131 The phlegmatized substance shall be significantly less sensitive than dry PETN.
- 135 The dihydrated sodium salt of dichloroisocyanuric acid is not subject to the requirements of ADN.
- 138 p-Bromobenzyl cyanide is not subject to the requirements of ADN.
- 141 Products which have undergone sufficient heat treatment so that they present no hazard during carriage are not subject to the requirements of ADN.
- 142 Solvent extracted soya bean meal containing not more than 1.5% oil and 11% moisture, which is substantially free of flammable solvent, is not subject to the requirements of ADN.
- 144 An aqueous solution containing not more than 24% alcohol by volume is not subject to the requirements of ADN.
- 145 Alcoholic beverages of packing group III, when carried in receptacles of 250 litres or less, are not subject to the requirements of ADN.
- 152 The classification of this substance will vary with particle size and packaging, but borderlines have not been experimentally determined. Appropriate classifications shall be made in accordance with 2.2.1.
- 153 This entry applies only if it is demonstrated, on the basis of tests, that the substances when in contact with water are not combustible nor show a tendency to auto-ignition and that the mixture of gases evolved is not flammable.
- 163 A substance mentioned by name in Table A of Chapter 3.2 shall not be carried under this entry. Substances carried under this entry may contain 20% or less nitrocellulose provided the nitrocellulose contains not more than 12.6% nitrogen (by dry mass).

- 168 Asbestos which is immersed or fixed in a natural or artificial binder (such as cement, plastics, asphalt, resins or mineral ore) in such a way that no escape of hazardous quantities of respirable asbestos fibres can occur during carriage is not subject to the requirements of ADN. Manufactured articles containing asbestos and not meeting this provision are nevertheless not subject to the requirements of ADN when packed so that no escape of hazardous quantities of respirable asbestos fibres can occur during carriage.
- 169 Phthalic anhydride in the solid state and tetrahydrophthalic anhydrides, with not more than 0.05% maleic anhydride, are not subject to the requirements of ADN. Phthalic anhydride molten at a temperature above its flash-point, with not more than 0.05% maleic anhydride, shall be classified under UN No. 3256.
- 172 For radioactive material with a subsidiary risk:
- (a) The packages shall be labelled with a label corresponding to each subsidiary risk exhibited by the material; corresponding placards shall be affixed to vehicles, wagons or containers in accordance with the relevant provisions of 5.3.1;
  - (b) The radioactive material shall be allocated to packing groups I, II or III, as and if appropriate, by application of the grouping criteria provided in Part 2 corresponding to the nature of the predominant subsidiary risk.

The description required in 5.4.1.2.5.1 (b) shall include a description of these subsidiary risks (e.g. "Subsidiary risk: 3, 6.1"), the name of the constituents which most predominantly contribute to this (these) subsidiary risk(s), and where applicable, the packing group.

- 177 Barium sulphate is not subject to the requirements of ADN.
- 178 This designation shall be used only when no other appropriate designation exists in Table A of Chapter 3.2, and only with the approval of the competent authority of the country of origin (see 2.2.1.1.3).
- 181 Packages containing this type of substance shall bear a label conforming to model No. 1 (see 5.2.2.2.2) unless the competent authority of the country of origin has permitted this label to be dispensed with for the specific packaging employed because test data have proved that the substance in this packaging does not exhibit explosive behaviour (see 5.2.2.1.9).
- 182 The group of alkali metals includes lithium, sodium, potassium, rubidium and caesium.
- 183 The group of alkaline earth metals includes magnesium, calcium, strontium and barium.
- 186 In determining the ammonium nitrate content, all nitrate ions for which a molecular equivalent of ammonium ions is present in the mixture shall be calculated as ammonium nitrate.



- 188 Cells and batteries offered for carriage are not subject to other provisions of ADN if they meet the following:
- (a) For a lithium metal or lithium alloy cell, the lithium content is not more than 1 g, and for a lithium-ion cell, the Watt-hour rating is not more than 20 Wh;
  - (b) For a lithium metal or lithium alloy battery the aggregate lithium content is not more than 2 g, and for a lithium-ion battery, the Watt-hour rating is not more than 100 Wh. Lithium ion batteries subject to this provision shall be marked with the Watt-hour rating on the outside case, except those manufactured before 1 January 2009 which may be carried in accordance with this special provision and without this marking until 31 December 2010;
  - (c) Each cell or battery is of the type proved to meet the requirements of each test in the *Manual of Tests and Criteria*, Part III, sub-section 38.3;
  - (d) Cells and batteries, except when installed in equipment, shall be packed in inner packagings that completely enclose the cell or battery. Cells and batteries shall be protected so as to prevent short circuits. This includes protection against contact with conductive materials within the same packaging that could lead to a short circuit. The inner packagings shall be packed in strong outer packagings which conform to the provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.5 of ADR;
  - (e) Cells and batteries when installed in equipment shall be protected from damage and short circuit, and the equipment shall be equipped with an effective means of preventing accidental activation. When batteries are installed in equipment, the equipment shall be packed in strong outer packagings constructed of suitable material of adequate strength and design in relation to the packaging's capacity and its intended use unless the battery is afforded equivalent protection by the equipment in which it is contained;
  - (f) Except for packages containing no more than four cells installed in equipment or no more than two batteries installed in equipment, each package shall be marked with the following:
    - (i) an indication that the package contains "lithium metal" or "lithium ion" cells or batteries, as appropriate;
    - (ii) an indication that the package shall be handled with care and that a flammability hazard exists if the package is damaged;
    - (iii) an indication that special procedures shall be followed in the event the package is damaged, to include inspection and repacking if necessary; and
    - (iv) a telephone number for additional information;
  - (g) Each consignment of one or more packages marked in accordance with paragraph (f) shall be accompanied with a document including the following:
    - (i) an indication that the package contains "lithium metal" or "lithium ion" cells or batteries, as appropriate;
    - (ii) an indication that the package shall be handled with care and that a flammability hazard exists if the package is damaged;

- (iii) an indication that special procedures shall be followed in the event the package is damaged, to include inspection and repacking if necessary; and
- (iv) a telephone number for additional information;
- (h) Except when batteries are installed in equipment, each package shall be capable of withstanding a 1.2 m drop test in any orientation without damage to cells or batteries contained therein, without shifting of the contents so as to allow battery to battery (or cell to cell) contact and without release of contents; and
- (i) Except when batteries are installed in or packed with equipment, packages shall not exceed 30 kg gross mass.

As used above and elsewhere in ADN, "lithium content" means the mass of lithium in the anode of a lithium metal or lithium alloy cell.

Separate entries exist for lithium metal batteries and lithium ion batteries to facilitate the carriage of these batteries for specific modes of carriage and to enable the application of different emergency response actions.

- 190 Aerosol dispensers shall be provided with protection against inadvertent discharge. Aerosols with a capacity not exceeding 50 ml containing only non-toxic constituents are not subject to the requirements of ADN.
- 191 Receptacles, small, with a capacity not exceeding 50 ml, containing only non-toxic constituents are not subject to the requirements of ADN.
- 193 This entry may only be used for uniform ammonium nitrate based fertilizer mixtures of the nitrogen, phosphate or potash type, containing not more than 70% ammonium nitrate and not more than 0.4% total combustible/organic material calculated as carbon or with not more than 45% ammonium nitrate and unrestricted combustible material. Fertilizers within these composition limits are not subject to the requirements of ADN if shown by a Trough Test (see *Manual of Tests and Criteria*, Part III, sub-section 38.2) not to be liable to self-sustaining decomposition.
- 194 The control and emergency temperatures, if any, and the UN number (generic entry) for each of the currently assigned self-reactive substances are given in 2.2.41.4.
- 196 Formulations which in laboratory testing neither detonate in the cavitated state nor deflagrate, which show no effect when heated under confinement and which exhibit no explosive power may be carried under this entry. The formulation must also be thermally stable (i.e. the SADT is 60 °C or higher for a 50 kg package). Formulations not meeting these criteria shall be carried under the provisions of Class 5.2, (see 2.2.52.4).
- 198 Nitrocellulose solutions containing not more than 20 % nitrocellulose may be carried as paint or printing ink, as applicable (see UN Nos. 1210, 1263, 3066, 3469 and 3470).
- 199 Lead compounds which, when mixed in a ratio of 1:1000 with 0.07M hydrochloric acid and stirred for one hour at a temperature of 23 °C ± 2 °C, exhibit a solubility of 5 % or less (see ISO 3711:1990 "*Lead chromate pigments and lead chromate-molybdate pigments – Specifications and methods of test*") are considered insoluble and are not subject to the requirements of ADN unless they meet the criteria for inclusion in another class.

- 201 Lighters and lighter refills shall comply with the provisions of the country in which they were filled. They shall be provided with protection against inadvertent discharge. The liquid portion of the gas shall not exceed 85% of the capacity of the receptacle at 15 °C. The receptacles, including the closures, shall be capable of withstanding an internal pressure of twice the pressure of the liquefied petroleum gas at 55 °C. The valve mechanisms and ignition devices shall be securely sealed, taped or otherwise fastened or designed to prevent operation or leakage of the contents during carriage. Lighters shall not contain more than 10 g of liquefied petroleum gas. Lighter refills shall not contain more than 65 g of liquefied petroleum gas.

*NOTE: For waste lighters collected separately see Chapter 3.3, special provision 654.*

- 203 This entry shall not be used for polychlorinated biphenyls, liquid, UN No. 2315 and polychlorinated biphenyls, solid, UN No. 3432.
- 205 This entry shall not be used for UN No. 3155 PENTACHLOROPHENOL.
- 207 Polymeric beads and moulding compounds may be made from polystyrene, poly(methyl methacrylate) or other polymeric material.
- 208 The commercial grade of calcium nitrate fertilizer, when consisting mainly of a double salt (calcium nitrate and ammonium nitrate) containing not more than 10% ammonium nitrate and at least 12% water of crystallization, is not subject to the requirements of ADN.
- 210 Toxins from plant, animal or bacterial sources which contain infectious substances, or toxins that are contained in infectious substances, shall be classified in Class 6.2.
- 215 This entry only applies to the technically pure substance or to formulations derived from it having an SADT higher than 75 °C and therefore does not apply to formulations which are self-reactive substances (for self-reactive substances, see 2.2.41.4). Homogeneous mixtures containing not more than 35 % by mass of azodicarbonamide and at least 65 % of inert substance are not subject to the requirements of ADN unless criteria of other classes are met.
- 216 Mixtures of solids which are not subject to the requirements of ADN and flammable liquids may be carried under this entry without first applying the classification criteria of Class 4.1, provided there is no free liquid visible at the time the substance is loaded or at the time the packaging, vehicle, wagon or container is closed. Sealed packets and articles containing less than 10 ml of a packing group II or III flammable liquid absorbed into a solid material are not subject to ADN provided there is no free liquid in the packet or article.
- 217 Mixtures of solids which are not subject to the requirements of ADN and toxic liquids may be carried under this entry without first applying the classification criteria of Class 6.1, provided there is no free liquid visible at the time the substance is loaded or at the time the packaging, vehicle, wagon or container is closed. This entry shall not be used for solids containing a packing group I liquid.
- 218 Mixtures of solids which are not subject to the requirements of ADN and corrosive liquids may be carried under this entry without first applying the classification criteria of Class 8, provided there is no free liquid visible at the time the substance is loaded or at the time the packaging, vehicle, wagon or container is closed.

- 219 Genetically modified micro-organisms and genetically modified organisms which meet the definition of an infectious substance and the criteria for inclusion in Class 6.2 in accordance with section 2.2.62 shall be carried as UN No. 2814, UN No. 2900 or UN No. 3373, as appropriate.
- 220 Only the technical name of the flammable liquid component of this solution or mixture shall be shown in parentheses immediately following the proper shipping name.
- 221 Substances included under this entry shall not be of packing group I.
- 224 Unless it can be demonstrated by testing that the sensitivity of the substance in its frozen state is no greater than in its liquid state, the substance shall remain liquid during normal transport conditions. It shall not freeze at temperatures above -15 °C.
- 225 Fire extinguishers under this entry may include installed actuating cartridges (cartridges, power device of classification code 1.4C or 1.4S), without changing the classification of Class 2, group A or O according to 2.2.2.1.3 provided the total quantity of deflagrating (propellant) explosives does not exceed 3.2 g per extinguishing unit.
- 226 Formulations of this substance containing not less than 30% non-volatile, non-flammable phlegmatizer are not subject to the requirements of ADN.
- 227 When phlegmatized with water and inorganic inert material the content of urea nitrate may not exceed 75% by mass and the mixture shall not be capable of being detonated by the Series 1, type (a), test in the *Manual of Tests and Criteria*, Part 1.
- 228 Mixtures not meeting the criteria for flammable gases (see 2.2.2.1.5) shall be carried under UN No. 3163.
- 230 This entry applies to cells and batteries containing lithium in any form, including lithium polymer and lithium ion cells and batteries.

Lithium cells and batteries may be carried under this entry if they meet the following provisions:

- (a) Each cell or battery is of the type proved to meet the requirements of each test of the *Manual of Tests and Criteria*, Part III, sub-section 38.3;
  - (b) Each cell and battery incorporates a safety venting device or is designed to preclude a violent rupture under normal conditions of carriage;
  - (c) Each cell and battery is equipped with an effective means of preventing external short circuits;
  - (d) Each battery containing cells or series of cells connected in parallel is equipped with effective means as necessary to prevent dangerous reverse current flow (e.g. diodes, fuses, etc.).
- 235 This entry applies to articles which contain Class 1 explosive substances and which may also contain dangerous goods of other classes. These articles are used as life-saving vehicle air bag inflators or air bag modules or seat-belt pretensioners.

236 Polyester resin kits consist of two components: a base material (Class 3, packing group II or III) and an activator (organic peroxide). The organic peroxide shall be type D, E or F, not requiring temperature control. Packing group shall be II or III, according to the criteria for Class 3, applied to the base material. The quantity limit referred to in Column (7a) of Table A of Chapter 3.2 applies to the base material.

237 The membrane filters, including paper separators, coating or backing materials, etc., that are present in carriage, shall not be liable to propagate a detonation as tested by one of the tests described in the *Manual of Tests and Criteria*, Part I, Test series 1 (a).

In addition the competent authority may determine, on the basis of the results of suitable burning rate tests taking account of the standard tests in the *Manual of Tests and Criteria*, Part III, sub-section 33.2.1, that nitrocellulose membrane filters in the form in which they are to be carried are not subject to the requirements applicable to flammable solids in Class 4.1.

238 (a) Batteries can be considered as non-spillable provided that they are capable of withstanding the vibration and pressure differential tests given below, without leakage of battery fluid.

**Vibration test:** The battery is rigidly clamped to the platform of a vibration machine and a simple harmonic motion having an amplitude of 0.8 mm (1.6 mm maximum total excursion) is applied. The frequency is varied at the rate of 1 Hz/min between the limits of 10 Hz and 55 Hz. The entire range of frequencies and return is traversed in  $95 \pm 5$  minutes for each mounting position (direction of vibration) of the battery. The battery is tested in three mutually perpendicular positions (to include testing with fill openings and vents, if any, in an inverted position) for equal time periods.

**Pressure differential test:** Following the vibration test, the battery is stored for six hours at  $24 \text{ }^\circ\text{C} \pm 4 \text{ }^\circ\text{C}$  while subjected to a pressure differential of at least 88 kPa. The battery is tested in three mutually perpendicular positions (to include testing with fill openings and vents, if any, in an inverted position) for at least six hours in each position.

(b) Non-spillable batteries are not subject to the requirements of ADN if, at a temperature of  $55 \text{ }^\circ\text{C}$ , the electrolyte will not flow from a ruptured or cracked case and there is no free liquid to flow and if, as packaged for carriage, the terminals are protected from short circuit.

239 Batteries or cells shall not contain dangerous substances other than sodium, sulphur and/or polysulphides. Batteries or cells shall not be offered for carriage at a temperature such that liquid elemental sodium is present in the battery or cell unless approved and under the conditions established by the competent authority of the country of origin. If the country of origin is not a Contracting Party to ADN, the approval and conditions of carriage shall be recognized by the competent authority of the first country Contracting Party to ADN reached by the consignment.

Cells shall consist of hermetically sealed metal casings which fully enclose the dangerous substances and which are so constructed and closed as to prevent the release of the dangerous substances under normal conditions of carriage.

Batteries shall consist of cells secured within and fully enclosed by a metal casing so constructed and closed as to prevent the release of the dangerous substances under normal conditions of carriage.

- 241 The formulation shall be prepared so that it remains homogeneous and does not separate during carriage. Formulations with low nitrocellulose contents and not showing dangerous properties when tested for their liability to detonate, deflagrate or explode when heated under defined confinement by tests of Test series 1 (a), 2 (b) and 2 (c) respectively in the *Manual of Tests and Criteria*, Part I and not being a flammable solid when tested in accordance with test No. 1 in the *Manual of Tests and Criteria*, Part III, sub-section 33.2.1.4 (chips, if necessary, crushed and sieved to a particle size of less than 1.25 mm) are not subject to the requirements of ADN.
- 242 Sulphur is not subject to the requirements of ADN when it has been formed to a specific shape (e.g. prills, granules, pellets, pastilles or flakes).
- 243 Gasoline, motor spirit and petrol for use in spark-ignition engines (e.g. in automobiles, stationary engines and other engines) shall be assigned to this entry regardless of variations in volatility.
- 244 This entry includes e.g. aluminium dross, aluminium skimmings, spent cathodes, spent potliner, and aluminium salt slags.
- 247 Alcoholic beverages containing more than 24% alcohol but not more than 70% by volume, when carried as part of the manufacturing process, may be carried in wooden barrels with a capacity of more than 250 litres and not more than 500 litres meeting the general requirements of 4.1.1 of ADR, as appropriate, on the following conditions:
- (a) The wooden barrels shall be checked and tightened before filling;
  - (b) Sufficient ullage (not less than 3%) shall be left to allow for the expansion of the liquid;
  - (c) The wooden barrels shall be carried with the bungholes pointing upwards;
  - (d) The wooden barrels shall be carried in containers meeting the requirements of the CSC. Each wooden barrel shall be secured in custom-made cradles and be wedged by appropriate means to prevent it from being displaced in any way during carriage.
- 249 Ferrocium, stabilized against corrosion, with a minimum iron content of 10% is not subject to the requirements of ADN.
- 250 This entry may only be used for samples of chemicals taken for analysis in connection with the implementation of the Convention on the Prohibition of the Development, Production, Stockpiling and Use of Chemical Weapons and on their Destruction. The carriage of substances under this entry shall be in accordance with the chain of custody and security procedures specified by the Organisation for the Prohibition of Chemical Weapons.

The chemical sample may only be carried providing prior approval has been granted by the competent authority or the Director General of the Organisation for the Prohibition of Chemical Weapons and providing the sample complies with the following provisions:

- (a) It shall be packed according to packing instruction 623 in the ICAO Technical Instructions (see S-3-8 of the Supplement); and

- (b) During carriage, a copy of the document of approval for transport, showing the quantity limitations and the packing provisions shall be attached to the transport document.

- 251 The entry CHEMICAL KIT or FIRST AID KIT is intended to apply to boxes, cases etc. containing small quantities of various dangerous goods which are used for example for medical, analytical or testing or repair purposes. Such kits may not contain dangerous goods for which the code "LQ0" has been indicated in Column (7a) of Table A of Chapter 3.2.

Components shall not react dangerously (see "dangerous reaction" in 1.2.1). The total quantity of dangerous goods in any one kit shall not exceed either 1 l or 1 kg. The packing group assigned to the kit as a whole shall be the most stringent packing group assigned to any individual substance in the kit.

Kits which are carried on board vessels for first-aid or operating purposes are not subject to the requirements of ADN.

Chemical kits and first aid kits containing dangerous goods in inner packagings which do not exceed the quantity limits for limited quantities applicable to individual substances as specified in Column (7a) of Table A of Chapter 3.2 in accordance with the LQ code defined in 3.4.6 may be carried in accordance with Chapter 3.4.

- 252 Provided the ammonium nitrate remains in solution under all conditions of carriage, aqueous solutions of ammonium nitrate, with not more than 0.2% combustible material, in a concentration not exceeding 80%, are not subject to the requirements of ADN.
- 266 This substance, when containing less alcohol, water or phlegmatizer than specified, shall not be carried unless specifically authorized by the competent authority (see 2.2.1.1).
- 267 Any explosives, blasting, type C containing chlorates shall be segregated from explosives containing ammonium nitrate or other ammonium salts.
- 270 Aqueous solutions of Class 5.1 inorganic solid nitrate substances are considered as not meeting the criteria of Class 5.1 if the concentration of the substances in solution at the minimum temperature encountered during carriage is not greater than 80% of the saturation limit.
- 271 Lactose or glucose or similar materials, may be used as a phlegmatizer provided that the substance contains not less than 90%, by mass, of phlegmatizer. The competent authority may authorize these mixtures to be classified in Class 4.1 on the basis of a test Series 6 (c) of Section 16 of Part I of the *Manual of Tests and Criteria* on at least three packages as prepared for carriage. Mixtures containing at least 98%, by mass, of phlegmatizer are not subject to the requirements of ADN. Packages containing mixtures with not less than 90%, by mass, of phlegmatizer need not bear a label conforming to model No. 6.1.
- 272 This substance shall not be carried under the provisions of Class 4.1 unless specifically authorized by the competent authority (see UN No. 0143).
- 273 Maneb and maneb preparations stabilized against self-heating need not be classified in Class 4.2 when it can be demonstrated by testing that a cubic volume of 1 m<sup>3</sup> of substance does not self-ignite and that the temperature at the centre of the sample does

not exceed 200 °C, when the sample is maintained at a temperature of not less than 75 °C ± 2 °C for a period of 24 hours.

- 274 The provisions of 3.1.2.8 apply.
- 278 These substances shall not be classified and carried unless authorized by the competent authority on the basis of results from Series 2 tests and a Series 6(c) test of Part I of the *Manual of Tests and Criteria* on packages as prepared for carriage (see 2.2.1.1). The competent authority shall assign the packing group on the basis of 2.2.3 criteria and the package type used for the Series 6(c) test.
- 279 The substance is assigned to this classification or packing group based on human experience rather than the strict application of classification criteria set out in ADN.
- 280 This entry applies to articles which are used as life-saving vehicle air bag inflators, or air bag modules or seat-belt pretensioners and which contain dangerous goods of Class 1 or dangerous goods of other classes and when carried as component parts and when these articles as presented for carriage have been tested in accordance with Test series 6 (c) of Part I of the *Manual of Tests and Criteria*, with no explosion of the device, no fragmentation of device casing or pressure vessel, and no projection hazard nor thermal effect which would significantly hinder fire-fighting or other emergency response efforts in the immediate vicinity.
- 283 Articles, containing gas, intended to function as shock absorbers, including impact energy-absorbing devices, or pneumatic springs are not subject to the requirements of ADN provided:
- (a) Each article has a gas space capacity not exceeding 1.6 litres and a charge pressure not exceeding 280 bar where the product of the capacity (litres) and charge pressure (bars) does not exceed 80 (i.e. 0.5 litres gas space and 160 bar charge pressure, 1 litre gas space and 80 bar charge pressure, 1.6 litres gas space and 50 bar charge pressure, 0.28 litres gas space and 280 bar charge pressure);
  - (b) Each article has a minimum burst pressure of 4 times the charge pressure at 20 °C for products not exceeding 0.5 litres gas space capacity and 5 times charge pressure for products greater than 0.5 litres gas space capacity;
  - (c) Each article is manufactured from material which will not fragment upon rupture;
  - (d) Each article is manufactured in accordance with a quality assurance standard acceptable to the competent authority; and
  - (e) The design type has been subjected to a fire test demonstrating that the article relieves its pressure by means of a fire degradable seal or other pressure relief device, such that the article will not fragment and that the article does not rocket.

See also 1.1.3.2 (d) of ADR for equipment used for the operation of the vehicle.

- 284 An oxygen generator, chemical, containing oxidizing substances shall meet the following conditions:
- (a) The generator when containing an explosive actuating device shall only be carried under this entry when excluded from Class 1 in accordance with the NOTE under paragraph 2.2.1.1.1 (b);



- (b) The generator, without its packaging, shall be capable of withstanding a 1.8 m drop test onto a rigid, non-resilient, flat and horizontal surface, in the position most likely to cause damage, without loss of its contents and without actuation;
  - (c) When a generator is equipped with an actuating device, it shall have at least two positive means of preventing unintentional actuation.
- 286 Nitrocellulose membrane filters covered by this entry, each with a mass not exceeding 0.5 g, are not subject to the requirements of ADN when contained individually in an article or a sealed packet.
- 288 These substances shall not be classified and carried unless authorized by the competent authority on the basis of results from Series 2 tests and a Series 6 (c) test of Part I of the *Manual of tests and Criteria* on packages as prepared for carriage (see 2.2.1.1).
- 289 Air bag inflators, air bag modules or seat-belt pretensioners installed in conveyances or in completed conveyance components such as steering columns, door panels, seats, etc. are not subject to the requirements of ADN.
- 290 When this material meets the definitions and criteria of other classes as defined in Part 2, it shall be classified in accordance with the predominant subsidiary risk. Such material shall be declared under the proper shipping name and UN number appropriate for the material in that predominant Class, with the addition of the name applicable to this material according to Column (2) of Table A of Chapter 3.2, and shall be carried in accordance with the provisions applicable to that UN number. In addition, all other requirements specified in 1.7.1.5 shall apply, except 5.2.1.7.2.
- 291 Flammable liquefied gases shall be contained within refrigerating machine components. These components shall be designed and tested to at least three times the working pressure of the machinery. The refrigerating machines shall be designed and constructed to contain the liquefied gas and preclude the risk of bursting or cracking of the pressure retaining components during normal conditions of carriage. Refrigerating machines and refrigerating-machine components are not subject to the requirements of ADN if they contain less than 12 kg of gas.
- 292 Mixtures containing not more than 23.5% oxygen by volume may be carried under this entry when no other oxidizing gases are present. A label conforming to model 5.1 is not required for any concentrations within this limit.
- 293 The following definitions apply to matches:
- (a) Fusee matches are matches the heads of which are prepared with a friction-sensitive igniter composition and a pyrotechnic composition which burns with little or no flame, but with intense heat;
  - (b) Safety matches are matches which are combined with or attached to the box, book or card that can be ignited by friction only on a prepared surface;
  - (c) Strike anywhere matches are matches that can be ignited by friction on a solid surface;
  - (d) Wax Vesta matches are matches that can be ignited by friction either on a prepared surface or on a solid surface.

- 295 Batteries need not be individually marked and labelled if the pallet bears the appropriate mark and label.
- 296 These entries apply for life-saving appliances such as life rafts, personal flotation devices and self-inflating slides. UN No. 2990 applies to self-inflating appliances and UN No. 3072 applies to life-saving appliances that are not self-inflating. Life-saving appliances may contain:
- (a) Signal devices (Class 1) which may include smoke and illumination signal flares packed in packagings that prevent them from being inadvertently activated;
  - (b) For UN No. 2990 only, cartridges, power device of Division 1.4, compatibility group S, may be contained for purposes of the self-inflating mechanism and provided that the quantity of explosives per appliance does not exceed 3.2 g;
  - (c) Class 2 compressed gases, group A or O, according to 2.2.2.1.3;
  - (d) Electric storage batteries (Class 8) and lithium batteries (Class 9);
  - (e) First aid kits or repair kits containing small quantities of dangerous goods (e.g.: substances of Class 3, 4.1, 5.2, 8 or 9); or
  - (f) "Strike anywhere" matches packed in packagings that prevent them from being inadvertently activated.
- 300 Fish meal or fish scrap shall not be loaded if the temperature at the time of loading exceeds 35 °C or 5 °C above the ambient temperature whichever is higher.
- 302 In the proper shipping name, the word "UNIT" means: a vehicle, a wagon, a container or a tank.
- Fumigated vehicles, wagons, containers and tanks are only subject to the provisions of 5.5.2.
- 303 Receptacles shall be assigned to the classification code of the gas or mixture of gases contained therein determined in accordance with the provisions of section 2.2.2.
- 304 Batteries, dry, containing corrosive electrolyte which will not flow out of the battery if the battery case is cracked are not subject to the requirements of ADN provided the batteries are securely packed and protected against short-circuits. Examples of such batteries are: alkali-manganese, zinc-carbon, nickel-metal hydride and nickel-cadmium batteries.
- 305 These substances are not subject to the requirements of ADN when in concentrations of not more than 50 mg/kg.
- 306 This entry may only be used for substances that do not exhibit explosive properties of Class 1 when tested in accordance to Test Series 1 and 2 of Class 1 (see *Manual of Tests and Criteria*, Part I).
- 307 This entry may only be used for uniform mixtures containing ammonium nitrate as the main ingredient within the following composition limits:

- (a) Not less than 90% ammonium nitrate with not more than 0.2% total combustible/organic material calculated as carbon and with added matter, if any, which is inorganic and inert towards ammonium nitrate; or
- (b) Less than 90% but more than 70% ammonium nitrate with other inorganic materials or more than 80% but less than 90% ammonium nitrate mixed with calcium carbonate and/or dolomite and/or mineral calcium sulphate and not more than 0.4% total combustible/organic material calculated as carbon; or
- (c) Nitrogen type ammonium nitrate based fertilizers containing mixtures of ammonium nitrate and ammonium sulphate with more than 45% but less than 70% ammonium nitrate and not more than 0.4% total combustible/organic material calculated as carbon such that the sum of the percentage compositions of ammonium nitrate and ammonium sulphate exceeds 70%.

309 This entry applies to non sensitized emulsions, suspensions and gels consisting primarily of a mixture of ammonium nitrate and fuel, intended to produce a Type E blasting explosive only after further processing prior to use.

The mixture for emulsions typically has the following composition: 60-85% ammonium nitrate, 5-30% water, 2-8% fuel, 0.5-4% emulsifier agent, 0-10% soluble flame suppressants, and trace additives. Other inorganic nitrate salts may replace part of the ammonium nitrate.

The mixture for suspensions and gels typically has the following composition: 60-85% ammonium nitrate, 0-5% sodium or potassium perchlorate, 0-17% hexamine nitrate or monomethylamine nitrate, 5-30% water, 2-15% fuel, 0.5-4% thickening agent, 0-10% soluble flame suppressants, and trace additives. Other inorganic nitrate salts may replace part of the ammonium nitrate.

Substances shall satisfactorily pass Test Series 8 of the Manual of Tests and Criteria, Part I, Section 18 and be approved by the competent authority.

310 The testing requirements in sub-section 38.3 of the *Manual of Tests and Criteria* do not apply to production runs consisting of not more than 100 cells and batteries, or to pre-production prototypes of cells and batteries when these prototypes are carried for testing, if:

- (a) the cells and batteries are carried in an outer packaging that is a metal, plastics or plywood drum or a metal, plastics or wooden box and that meets the criteria for packing group I; and
- (b) each cell and battery is individually packed in an inner packaging inside an outer packaging and is surrounded by cushioning material that is non-combustible, and non-conductive.

311 Substances shall not be carried under this entry unless approved by the competent authority on the basis of the results of appropriate tests according to Part I of the *Manual of Tests and Criteria*. Packaging shall ensure that the percentage of diluent does not fall below that stated in the competent authority approval, at any time during carriage.

312 (*Reserved*)

313 Substances and mixtures meeting the criteria for Class 8 shall bear a subsidiary risk label conforming to model No. 8 (see 5.2.2.2.2).

- 314 (a) These substances are liable to exothermic decomposition at elevated temperatures. Decomposition can be initiated by heat or by impurities (e.g. powdered metals (iron, manganese, cobalt, magnesium) and their compounds);
- (b) During the course of carriage, these substances shall be shaded from direct sunlight and all sources of heat and be placed in adequately ventilated areas.
- 315 This entry shall not be used for Class 6.1 substances which meet the inhalation toxicity criteria for packing group I described in 2.2.61.1.8.
- 316 This entry applies only to calcium hypochlorite, dry, when carried in non friable tablet form.
- 317 "Fissile-excepted" applies only to those packages complying with 6.4.11.2 of ADR.
- 318 For the purposes of documentation, the proper shipping name shall be supplemented with the technical name (see 3.1.2.8). When the infectious substances to be carried are unknown, but suspected of meeting the criteria for inclusion in category A and assignment to UN No. 2814 or 2900, the words "suspected category A infectious substance" shall be shown, in parentheses, following the proper shipping name on the transport document.
- 319 Substances packed and packages marked in accordance with packing instruction P650 of ADR are not subject to any other requirements of ADN.
- 321 These storage systems shall always be considered as containing hydrogen.
- 322 When carried in non-friable tablet form, these goods are assigned to packing group III.
- 323 *(Reserved)*
- 324 This substance needs to be stabilized when in concentrations of not more than 99%.
- 325 In the case of non-fissile or fissile excepted uranium hexafluoride, the material shall be classified under UN No 2978.
- 326 In the case of fissile uranium hexafluoride, the material shall be classified under UN No 2977.
- 327 Waste aerosols consigned in accordance with 5.4.1.1.3 may be carried under this entry for the purposes of reprocessing or disposal. They need not be protected against inadvertent discharge provided that measures to prevent dangerous build up of pressure and dangerous atmospheres are addressed. Waste aerosols, other than those leaking or severely deformed, shall be packed in accordance with packing instruction P003 of ADR and special provision PP87 of ADR, or packing instruction LP02 of ADR and special packing provision L2 of ADR. Leaking or severely deformed aerosols shall be carried in salvage packagings provided appropriate measures are taken to ensure there is no dangerous build up of pressure.

*NOTE: For maritime carriage, waste aerosols shall not be carried in closed containers.*

- 328 This entry applies to fuel cell cartridges including when contained in equipment or packed with equipment. Fuel cell cartridges installed in or integral to a fuel cell

system are regarded as contained in equipment. Fuel cell cartridge means an article that stores fuel for discharge into the fuel cell through (a) valve(s) that control(s) the discharge of fuel into the fuel cell. Fuel cell cartridges, including when contained in equipment, shall be designed and constructed to prevent fuel leakage under normal conditions of carriage.

Fuel cell cartridge design types using liquids as fuels shall pass an internal pressure test at a pressure of 100 kPa (gauge) without leakage.

Except for fuel cell cartridges containing hydrogen in metal hydride which shall be in compliance with special provision 339, each fuel cell cartridge design type shall be shown to pass a 1.2 meter drop test onto an unyielding surface in the orientation most likely to result in failure of the containment system with no loss of contents.

- 329     *(Reserved)*
- 331     *(Reserved)*
- 332     Magnesium nitrate hexahydrate is not subject to the requirements of ADN.
- 333     Ethanol and gasoline, motor spirit or petrol mixtures for use in spark-ignition engines (e.g. in automobiles, stationary engines and other engines) shall be assigned to this entry regardless of variations in volatility.
- 334     A fuel cell cartridge may contain an activator provided it is fitted with two independent means of preventing unintended mixing with the fuel during carriage.
- 335     Mixtures of solids which are not subject to the requirements of ADN and environmentally hazardous liquids or solids shall be classified as UN 3077 and may be carried under this entry provided there is no free liquid visible at the time the substance is loaded or at the time the packaging or vehicle, wagon or container is closed. Each vehicle or container shall be leakproof when used for carriage in bulk. If free liquid is visible at the time the mixture is loaded or at the time the packaging or vehicle, wagon or container is closed, the mixture shall be classified as UN 3082. Sealed packets and articles containing less than 10 ml of an environmentally hazardous liquid, absorbed into a solid material but with no free liquid in the packet or article, or containing less than 10 g of an environmentally hazardous solid, are not subject to the requirements of ADN.
- 336     A single package of non-combustible solid LSA-II or LSA-III material, if carried by air, shall not contain an activity greater than 3 000 A<sub>2</sub>.
- 337     Type B(U) and Type B(M) packages, if carried by air, shall not contain activities greater than the following:
- (a) For low dispersible radioactive material: as authorized for the package design as specified in the certificate of approval;
  - (b) For special form radioactive material: 3 000 A<sub>1</sub> or 100 000 A<sub>2</sub>, whichever is the lower; or
  - (c) For all other radioactive material: 3 000 A<sub>2</sub>.
- 338     Each fuel cell cartridge carried under this entry and designed to contain a liquefied flammable gas shall:

- (a) Be capable of withstanding, without leakage or bursting, a pressure of at least two times the equilibrium pressure of the contents at 55 °C;
- (b) Not contain more than 200 ml of liquefied flammable gas with a vapour pressure not exceeding 1 000 kPa at 55 °C; and
- (c) Pass the hot water bath test prescribed in 6.2.6.3.1 of ADR.

339 Fuel cell cartridges containing hydrogen in a metal hydride carried under this entry shall have a water capacity less than or equal to 120 ml.

The pressure in the fuel cell cartridge shall not exceed 5 MPa at 55 °C. The design type shall withstand, without leaking or bursting, a pressure of twice the design pressure of the cartridge at 55 °C or 200 kPa more than the design pressure of the cartridge at 55 °C, whichever is greater. The pressure at which this test is conducted is referred to in the drop test and the hydrogen cycling test as the “minimum shell burst pressure”.

Fuel cell cartridges shall be filled in accordance with procedures provided by the manufacturer. The manufacturer shall provide the following information with each fuel cell cartridge:

- (a) Inspection procedures to be carried out before initial filling and before refilling of the fuel cell cartridge;
- (b) Safety precautions and potential hazards to be aware of;
- (c) Method for determining when the rated capacity has been achieved;
- (d) Minimum and maximum pressure range;
- (e) Minimum and maximum temperature range; and
- (f) Any other requirements to be met for initial filling and refilling including the type of equipment to be used for initial filling and refilling.

The fuel cell cartridges shall be designed and constructed to prevent fuel leakage under normal conditions of carriage. Each cartridge design type, including cartridges integral to a fuel cell, shall be subjected to and shall pass the following tests:

#### **Drop test**

A 1.8 metre drop test onto an unyielding surface in four different orientations:

- (a) Vertically, on the end containing the shut-off valve assembly;
- (b) Vertically, on the end opposite to the shut-off valve assembly;
- (c) Horizontally, onto a steel apex with a diameter of 38 mm, with the steel apex in the upward position; and
- (d) At a 45° angle on the end containing the shut-off valve assembly.

There shall be no leakage, determined by using a soap bubble solution or other equivalent means on all possible leak locations, when the cartridge is charged to its

rated charging pressure. The fuel cell cartridge shall then be hydrostatically pressurized to destruction. The recorded burst pressure shall exceed 85% of the minimum shell burst pressure.

### **Fire test**

A fuel cell cartridge filled to rated capacity with hydrogen shall be subjected to a fire engulfment test. The cartridge design, which may include a vent feature integral to it, is deemed to have passed the fire test if :

- (a) The internal pressure vents to zero gauge pressure without rupture of the cartridge; or
- (b) The cartridge withstands the fire for a minimum of 20 minutes without rupture.

### **Hydrogen cycling test**

This test is intended to ensure that a fuel cell cartridge design stress limits are not exceeded during use.

The fuel cell cartridge shall be cycled from not more than 5% rated hydrogen capacity to not less than 95% rated hydrogen capacity and back to not more than 5% rated hydrogen capacity. The rated charging pressure shall be used for charging and temperatures shall be held within the operating temperature range. The cycling shall be continued for at least 100 cycles.

Following the cycling test, the fuel cell cartridge shall be charged and the water volume displaced by the cartridge shall be measured. The cartridge design is deemed to have passed the hydrogen cycling test if the water volume displaced by the cycled cartridge does not exceed the water volume displaced by an uncycled cartridge charged to 95% rated capacity and pressurized to 75% of its minimum shell burst pressure.

### **Production leak test**

Each fuel cell cartridge shall be tested for leaks at  $15\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$ , while pressurized to its rated charging pressure. There shall be no leakage, determined by using a soap bubble solution or other equivalent means on all possible leak locations.

Each fuel cell cartridge shall be permanently marked with the following information:

- (a) The rated charging pressure in MPa;
- (b) The manufacturer's serial number of the fuel cell cartridges or unique identification number; and
- (c) The date of expiry based on the maximum service life (year in four digits; month in two digits).

340 Chemical kits, first aid kits and polyester resin kits containing dangerous substances in inner packagings which do not exceed the quantity limits for excepted quantities applicable to individual substances as specified in column 7b of Table A of Chapter 3.2, may be carried in accordance with Chapter 3.5. Class 5.2 substances, although

not individually authorized as excepted quantities in column 7b of Table A of Chapter 3.2, are authorized in such kits and are assigned Code E2 (see 3.5.1.2).

341-499 (*Reserved*)

- 500 UN No. 3064 nitroglycerin, solution in alcohol with more than 1% but not more than 5% nitroglycerin, packed in accordance with packing instruction P300 of 4.1.4.1 of ADR, is a substance of Class 3.
- 501 For naphthalene, molten, see UN No. 2304.
- 502 UN No. 2006 plastics, nitrocellulose-based, self-heating, n.o.s., and UN No. 2002 celluloid scrap are substances of Class 4.2.
- 503 For phosphorus, white or yellow, molten, see UN No. 2447.
- 504 UN No. 1847 potassium sulphide, hydrated with not less than 30% water of crystallization, UN No. 1849 sodium sulphide, hydrated with not less than 30% water of crystallization and UN No. 2949 sodium hydrosulphide with not less than 25% water of crystallization are substances of Class 8.
- 505 UN No. 2004 magnesium diamide is a substance of Class 4.2.
- 506 Alkaline earth metals and alkaline earth metal alloys in pyrophoric form are substances of Class 4.2.
- UN No. 1869 magnesium or magnesium alloys containing more than 50% magnesium as pellets, turnings or ribbons, are substances of Class 4.1.
- 507 UN No. 3048 aluminium phosphide pesticides, with additives inhibiting the emission of toxic flammable gases are substances of Class 6.1.
- 508 UN No. 1871 titanium hydride and UN No. 1437 zirconium hydride are substances of Class 4.1. UN No. 2870 aluminium borohydride is a substance of Class 4.2.
- 509 UN No. 1908 chlorite solution is a substance of Class 8.
- 510 UN No. 1755 chromic acid solution is a substance of Class 8.
- 511 UN No. 1625 mercuric nitrate, UN No. 1627 mercurous nitrate and UN No. 2727 thallium nitrate are substances of Class 6.1. Thorium nitrate, solid, uranyl nitrate hexahydrate solution and uranyl nitrate, solid are substances of Class 7.
- 512 UN No. 1730 antimony pentachloride, liquid, UN No. 1731 antimony pentachloride solution, UN No. 1732 antimony pentafluoride and UN No. 1733 antimony trichloride are substances of Class 8.
- 513 UN No. 0224 barium azide, dry or wetted with less than 50% water, by mass, is a substance of Class 1. UN No. 1571 barium azide, wetted with not less than 50% water, by mass, is a substance of Class 4.1. UN No. 1854 barium alloys, pyrophoric, are substances of Class 4.2. UN No. 1445 barium chlorate, solid, UN No. 1446 barium nitrate, UN No. 1447 barium perchlorate, solid, UN No. 1448 barium permanganate, UN No. 1449 barium peroxide, UN No. 2719 barium bromate, UN No. 2741 barium hypochlorite with more than 22% available chlorine, UN No. 3405 barium chlorate, solution and UN No. 3406 barium perchlorate, solution, are substances of Class 5.1.



- UN No. 1565 barium cyanide and UN No. 1884 barium oxide are substances of Class 6.1.
- 514 UN No. 2464 beryllium nitrate is a substance of Class 5.1.
- 515 UN No. 1581 chloropicrin and methyl bromide mixture and UN No. 1582 chloropicrin and methyl chloride mixture are substances of Class 2.
- 516 UN No. 1912 methyl chloride and methylene chloride mixture is a substance of Class 2.
- 517 UN No. 1690 sodium fluoride, solid, UN No. 1812 potassium fluoride, solid, UN No. 2505 ammonium fluoride, UN No. 2674 sodium fluorosilicate, UN No. 2856 fluorosilicates, n.o.s., UN No. 3415 sodium fluoride, solution and UN No. 3422 potassium fluoride, solution, are substances of Class 6.1.
- 518 UN No. 1463 chromium trioxide, anhydrous (chromic acid, solid) is a substance of Class 5.1.
- 519 UN No. 1048 hydrogen bromide, anhydrous, is a substance of Class 2.
- 520 UN No. 1050 hydrogen chloride, anhydrous, is a substance of Class 2.
- 521 Solid chlorites and hypochlorites are substances of Class 5.1.
- 522 UN No. 1873 perchloric acid aqueous solution with more than 50% but not more than 72% pure acid, by mass are substances of Class 5.1. Perchloric acid solutions containing more than 72% pure acid, by mass, or mixtures of perchloric acid with any liquid other than water, are not to be accepted for carriage.
- 523 UN No. 1382 anhydrous potassium sulphide and UN No. 1385 anhydrous sodium sulphide and their hydrates with less than 30% water of crystallization, and UN No. 2318 sodium hydrosulphide with less than 25% water of crystallization are substances of Class 4.2.
- 524 UN No. 2858 finished zirconium products of a thickness of 18 µm or more are substances of Class 4.1.
- 525 Solutions of inorganic cyanides with a total cyanide ion content of more than 30% shall be classified in packing group I, solutions with a total cyanide ion content of more than 3% and not more than 30% in packing group II and solutions with a cyanide ion content of more than 0.3% and not more than 3% in packing group III.
- 526 UN No. 2000 celluloid is assigned to Class 4.1.
- 527 *(Reserved)*
- 528 UN No. 1353 fibres or fabrics impregnated with weakly nitrated cellulose, non-self heating are articles of Class 4.1.
- 529 UN No. 0135 mercury fulminate, wetted with not less than 20% water, or mixture of alcohol and water, by mass, is a substance of Class 1. Mercurous chloride (calomel) is a substance of Class 9 (UN No. 3077).
- 530 UN No. 3293 hydrazine, aqueous solution with not more than 37% hydrazine, by mass, is a substance of Class 6.1.

- 531 Mixtures having a flash-point below 23 °C and containing more than 55% nitrocellulose, whatever its nitrogen content or containing not more than 55% nitrocellulose with a nitrogen content above 12.6% (by dry mass), are substances of Class 1 (see UN Nos. 0340 or 0342) or of Class 4.1.
- 532 UN No. 2672 ammonia solution containing not less than 10% but not more than 35% ammonia is a substance of Class 8.
- 533 UN No. 1198 formaldehyde solutions, flammable are substances of Class 3. Formaldehyde solutions, non-flammable, with less than 25% formaldehyde are not subject to the requirements of ADN.
- 534 While in some climatic conditions, petrol (gasoline) may have a vapour pressure at 50 °C of more than 110 kPa (1.10 bar) but not more than 150 kPa (1.50 bar) it is to continue to be considered as a substance having a vapour pressure at 50 °C of not more than 110 kPa (1.10 bar).
- 535 UN No. 1469 lead nitrate, UN No. 1470 lead perchlorate, solid and UN No. 3408 lead perchlorate, solution are substances of Class 5.1.
- 536 For naphthalene, solid, see UN No. 1334.
- 537 UN No. 2869 titanium trichloride mixture, not pyrophoric, is a substance of Class 8.
- 538 For sulphur (in the solid state), see UN No. 1350.
- 539 Solutions of isocyanates having a flash-point of not less than 23 °C are substances of Class 6.1.
- 540 UN No. 1326 hafnium powder, wetted, UN No. 1352 titanium powder, wetted or UN No. 1358 zirconium powder, wetted, with not less than 25% water, are substances of Class 4.1.
- 541 Nitrocellulose mixtures with a water content, alcohol content or plasticizer content lower than the stated limits are substances of Class 1.
- 542 Talc containing tremolite and/or actinolite is covered by this entry.
- 543 UN No. 1005 ammonia, anhydrous, UN No. 3318 ammonia solution with more than 50% ammonia and UN No. 2073 ammonia solution, with more than 35% but not more than 50% ammonia, are substances of Class 2. Ammonia solutions with not more than 10% ammonia are not subject to the requirements of ADN.
- 544 UN No. 1032 dimethylamine, anhydrous, UN No. 1036 ethylamine, UN No. 1061 methylamine, anhydrous and UN No. 1083 trimethylamine, anhydrous, are substances of Class 2.
- 545 UN No. 0401 dipicryl sulphide, wetted with less than 10% water by mass is a substance of Class 1.
- 546 UN No. 2009 zirconium, dry, finished sheets, strip or coiled wire, in thicknesses of less than 18 µm, is a substance of Class 4.2. Zirconium, dry, finished sheets, strip or coiled wire, in thicknesses of 254 µm or more, is not subject to the requirements of ADN.

- 547 UN No. 2210 maneb or UN No. 2210 maneb preparations in self-heating form are substances of Class 4.2.
- 548 Chlorosilanes which, in contact with water, emit flammable gases, are substances of Class 4.3.
- 549 Chlorosilanes having a flash-point of less than 23 °C and which, in contact with water, do not emit flammable gases are substances of Class 3. Chlorosilanes having a flash-point equal to or greater than 23 °C and which, in contact with water, do not emit flammable gases are substances of Class 8.
- 550 UN No. 1333 cerium in slabs, rods or ingots is a substance of Class 4.1.
- 551 Solutions of these isocyanates having a flash-point below 23 °C are substances of Class 3.
- 552 Metals and metal alloys in powdered or other flammable form, liable to spontaneous combustion, are substances of Class 4.2. Metals and metal alloys in powdered or other flammable form which, in contact with water, emit flammable gases are substances of Class 4.3.
- 553 This mixture of hydrogen peroxide and peroxyacetic acid shall, in laboratory testing (see *Manual of Tests and Criteria*, Part II, section 20), neither detonate in the cavitated state nor deflagrate at all and shall show no effect when heated under confinement nor any explosive power. The formulation shall be thermally stable (self-accelerating decomposition temperature 60 °C or higher for a 50 kg package), and a liquid compatible with peroxyacetic acid shall be used for desensitization. Formulations not meeting these criteria are to be regarded as substances of Class 5.2 (see *Manual of Tests and Criteria*, Part II, paragraph 20.4.3 (g)).
- 554 Metal hydrides which, in contact with water, emit flammable gases are substances of Class 4.3. UN No. 2870 aluminium borohydride or UN No. 2870 aluminium borohydride in devices is a substance of Class 4.2.
- 555 Dust and powder of metals in non-spontaneously combustible form, non-toxic which nevertheless, in contact with water, emit flammable gases, are substances of Class 4.3.
- 556 Organometallic compounds and their solutions which ignite spontaneously are substances of Class 4.2. Flammable solutions with organometallic compounds in concentrations which, in contact with water, neither emit flammable gases in dangerous quantities nor ignite spontaneously are substances of Class 3.
- 557 Dust and powder of metals in pyrophoric form are substances of Class 4.2.
- 558 Metals and metal alloys in pyrophoric form are substances of Class 4.2. Metals and metal alloys which, in contact with water, do not emit flammable gases and are not pyrophoric or self-heating, but which are easily ignited, are substances of Class 4.1.
- 559 Mixtures of a hypochlorite with an ammonium salt are not to be accepted for carriage. UN No. 1791 hypochlorite solution is a substance of Class 8.
- 560 UN No. 3257 elevated temperature liquid, n.o.s., at or above 100 °C and, for a substance with a flash-point, below its flash-point (including molten metals and molten salts) is a substance of Class 9.
- 561 Chloroformates having predominantly corrosive properties are substances of Class 8.

- 562 Spontaneously combustible organometallic compounds are substances of Class 4.2. Water-reactive organometallic compounds, flammable, are substances of Class 4.3.
- 563 UN No. 1905 selenic acid is a substance of Class 8.
- 564 UN No. 2443 vanadium oxytrichloride, UN No. 2444 vanadium tetrachloride and UN No. 2475 vanadium trichloride are substances of Class 8.
- 565 Unspecified wastes resulting from medical/veterinary treatment of humans/animals or from biological research, and which are unlikely to contain substances of Class 6.2 shall be assigned to this entry. Decontaminated clinical wastes or wastes resulting from biological research which previously contained infectious substances are not subject to the requirements of Class 6.2.
- 566 UN No. 2030 hydrazine aqueous solution, with more than 37% hydrazine, by mass, is a substance of Class 8.
- 567 Mixtures containing more than 21% oxygen by volume shall be classified as oxidizing.
- 568 Barium azide with a water content lower than the stated limit is a substance of Class 1, UN No. 0224.
- 569-579 (*Reserved*)
- 580 Tank-vehicles, tank-wagons, specialized vehicles, specialized wagons and specially equipped vehicles and wagons for carriage in bulk shall bear on both sides and at the rear the mark referred to in 5.3.3. Tank-containers, portable tanks, special containers and specially equipped containers for carriage in bulk shall bear this mark on both sides and at each end.
- 581 This entry covers mixtures of methylacetylene and propadiene with hydrocarbons, which as:
- Mixture P1, contain not more than 63% methylacetylene and propadiene by volume and not more than 24% propane and propylene by volume, the percentage of C<sub>4</sub>-saturated hydrocarbons being not less than 14% by volume; and as
- Mixture P2, contain not more than 48% methylacetylene and propadiene by volume and not more than 50% propane and propylene by volume, the percentage of C<sub>4</sub>-saturated hydrocarbons being not less than 5% by volume,
- as well as mixtures of propadiene with 1 to 4% methylacetylene.
- When relevant, in order to meet the requirements for the transport document (5.4.1.1), the term "Mixture P1" or "Mixture P2" may be used as technical name.
- 582 This entry covers, *inter alia*, mixtures of gases indicated by the letter R ..., which as
- Mixture F1, have a vapour pressure at 70° C not exceeding 1.3 MPa (13 bar) and a density at 50 °C not lower than that of dichlorofluoromethane (1.30 kg/l);
- Mixture F2, have a vapour pressure at 70 °C not exceeding 1.9 MPa (19 bar) and a density at 50 °C not lower than that of dichloridifluoromethane (1.21 kg/l);

Mixture F3, have a vapour pressure at 70 °C not exceeding 3 MPa (30 bar) and a density at 50 °C not lower than that of chlorodifluoromethane (1.09 kg/l).

**NOTE:** *Trichlorofluoromethane (refrigerant R 11), 1,1,2-trichloro-1,2,2-trifluoroethane (refrigerant R 113), 1,1,1-trichloro-2,2,2-trifluoroethane (refrigerant R 113a), 1-chloro-1,2,2-trifluoroethane (refrigerant R 133) and 1-chloro-1,1,2-trifluoroethane (refrigerant R 133 b) are not substances of Class 2. They may, however, enter into the composition of mixtures F1 to F3.*

When relevant, in order to meet the requirements for the transport document (5.4.1.1), the term "Mixture F1", "Mixture F2" or "Mixture F3" may be used as technical name.

583 This entry covers, inter alia, mixtures which as:

Mixture A, have a vapour pressure at 70 °C not exceeding 1.1 MPa (11 bar) and a density at 50 °C not lower than 0.525 kg/l;

Mixture A01, have a vapour pressure at 70 °C not exceeding 1.6 MPa (16 bar) and a density at 50 °C not lower than 0.516 kg/l;

Mixture A02, have a vapour pressure at 70 °C not exceeding 1.6 MPa (16 bar) and a density at 50 °C not lower than 0.505 kg/l;

Mixture A0, have a vapour pressure at 70 °C not exceeding 1.6 MPa (16 bar) and a density at 50 °C not lower than 0.495 kg/l;

Mixture A1, have a vapour pressure at 70 °C not exceeding 2.1 MPa (21 bar) and a density at 50 °C not lower than 0.485 kg/l;

Mixture B1, have a vapour pressure at 70 °C not exceeding 2.6 MPa (26 bar) and a density at 50 °C not lower than 0.474 kg/l;

Mixture B2, have a vapour pressure at 70 °C not exceeding 2.6 MPa (26 bar) and a density at 50 °C not lower than 0.463 kg/l;

Mixture B, have a vapour pressure at 70 °C not exceeding 2.6 MPa (26 bar) and a density at 50 °C not lower than 0.450 kg/l;

Mixture C, have a vapour pressure at 70 °C not exceeding 3.1 MPa (31 bar) and a density at 50 °C not lower than 0.440 kg/l;

When relevant, in order to meet the requirements for the transport document (5.4.1.1), the following terms may be used as technical name:

- "Mixture A" or "Butane";
- "Mixture A01" or "Butane";
- "Mixture A02" or "Butane";
- "Mixture A0" or "Butane";
- "Mixture A1";
- "Mixture B1";

- "Mixture B2";
- "Mixture B";
- "Mixture C" or "Propane".

For carriage in tanks, the trade names "butane" or "propane" may be used only as a complement.

584 This gas is not subject to the requirements of ADN when:

- it is in the gaseous state;
- it contains not more than 0.5% air;
- it is contained in metal capsules (sodors, sparklets) free from defects which may impair their strength;
- the leakproofness of the closure of the capsule is ensured;
- a capsule contains not more than 25 g of this gas;
- a capsule contains not more than 0.75 g of this gas per cm<sup>3</sup> of capacity.

585 Cinnabar is not subject to the requirements of ADN.

586 Hafnium, titanium and zirconium powders shall contain a visible excess of water. Hafnium, titanium and zirconium powders, wetted, mechanically produced, of a particle size of 53 µm and over, or chemically produced, of a particle size of 840 µm and over, are not subject to the requirements of ADN.

587 Barium stearate and barium titanate are not subject to the requirements of ADN.

588 Solid hydrated forms of aluminium bromide and aluminium chloride are not subject to the requirements of ADN.

589 Calcium hypochlorite mixtures, dry, containing not more than 10% available chlorine are not subject to the requirements of ADN.

590 Ferric chloride hexahydrate is not subject to the requirements of ADN.

591 Lead sulphate with not more than 3% free acid is not subject to the requirements of ADN.

592 Uncleaned empty packagings (including empty IBCs and large packagings), empty tank-vehicles, empty demountable tanks, empty portable tanks, empty tank-containers and empty small containers which have contained this substance are not subject to the requirements of ADN.

593 This gas, intended for the cooling of e.g. medical or biological specimens, if contained in double wall receptacles which comply with the provisions of packing instruction P203 (12) of 4.1.4.1 of ADR is not subject to the requirements of ADN.

594 The following articles, manufactured and filled according to the regulations of the manufacturing State and packaged in strong outer packagings, are not subject to the requirements of ADN:

- UN No. 1044 fire extinguishers provided with protection against inadvertent discharge;
  - UN No. 3164 articles, pressurized pneumatic or hydraulic, designed to withstand stresses greater than the internal gas pressure by virtue of transmission of force, intrinsic strength or construction.
- 596 Cadmium pigments, such as cadmium sulphides, cadmium sulphoselenides and cadmium salts of higher fatty acids (e.g. cadmium stearate), are not subject to the requirements of ADN.
- 597 Acetic acid solutions with not more than 10% pure acid by mass, are not subject to the requirements of ADN.
- 598 The following are not subject to the requirements of ADN:
- (a) New storage batteries when:
    - they are secured in such a way that they cannot slip, fall or be damaged;
    - they are provided with carrying devices, unless they are suitably stacked, e.g. on pallets;
    - there are no dangerous traces of alkalis or acids on the outside;
    - they are protected against short circuits;
  - (b) Used storage batteries when:
    - their cases are undamaged;
    - they are secured in such a way that they cannot leak, slip, fall or be damaged, e.g. by stacking on pallets;
    - there are no dangerous traces of alkalis or acids on the outside of the articles;
    - they are protected against short circuits.
- "Used storage batteries" means storage batteries carried for recycling at the end of their normal service life.
- 599 Manufactured articles or instruments containing not more than 1 kg of mercury are not subject to the requirements of ADN.
- 600 Vanadium pentoxide, fused and solidified, is not subject to the requirements of ADN.
- 601 Pharmaceutical products (medicines) ready for use, which are substances manufactured and packaged for retail sale or distribution for personal or household consumption are not subject to the requirements of ADN.
- 602 Phosphorus sulphides which are not free from yellow and white phosphorus are not to be accepted for carriage.

- 603 Anhydrous hydrogen cyanide not meeting the description for UN No. 1051 or UN No. 1614 is not to be accepted for carriage. Hydrogen cyanide (hydrocyanic acid) containing less than 3% water is stable, if the pH-value is  $2.5 \pm 0.5$  and the liquid is clear and colourless.
- 604 Ammonium bromate and its aqueous solutions and mixtures of a bromate with an ammonium salt are not to be accepted for carriage.
- 605 Ammonium chlorate and its aqueous solutions and mixtures of a chlorate with an ammonium salt are not to be accepted for carriage.
- 606 Ammonium chlorite and its aqueous solutions and mixtures of a chlorite with an ammonium salt are not to be accepted for carriage.
- 607 Mixtures of potassium nitrate and sodium nitrite with an ammonium salt are not to be accepted for carriage.
- 608 Ammonium permanganate and its aqueous solutions and mixtures of a permanganate with an ammonium salt are not to be accepted for carriage.
- 609 Tetranitromethane not free from combustible impurities is not to be accepted for carriage.
- 610 The carriage of this substance, when it contains more than 45% hydrogen cyanide is prohibited.
- 611 Ammonium nitrate containing more than 0.2% combustible substances (including any organic substance calculated as carbon) is not to be accepted for carriage unless it is a constituent of a substance or article of Class 1.
- 612 *(Reserved)*
- 613 Chloric acid solution containing more than 10% chloric acid and mixtures of chloric acid with any liquid other than water is not to be accepted for carriage.
- 614 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) in concentrations considered highly toxic according to the criteria in 2.2.61.1 is not to be accepted for carriage.
- 615 *(Reserved)*
- 616 Substances containing more than 40% liquid nitric esters shall satisfy the exudation test specified in 2.3.1.
- 617 In addition to the type of explosive, the commercial name of the particular explosive shall be marked on the package.
- 618 In receptacles containing 1,2-butadiene, the oxygen concentration in the gaseous phase shall not exceed 50 ml/m<sup>3</sup>.
- 619-622 *(Reserved)*
- 623 UN No. 1829 sulphur trioxide shall be inhibited. Sulphur trioxide, 99.95% pure or above, may be carried without inhibitor in tanks provided that its temperature is maintained at or above 32.5 °C. For the carriage of this substance without inhibitor in tanks at a minimum temperature of 32.5 °C, the specification "**Transport under**



**minimum temperature of the product of 32.5 °C**" shall appear in the transport document.

625 Packages containing these articles shall be clearly marked as follows:  
**"UN 1950 AEROSOLS"**

626-631 (*Reserved*)

632 Considered to be spontaneously flammable (pyrophoric).

633 Packages and small containers containing this substance shall bear the following marking: **"Keep away from any source of ignition"**. This marking shall be in an official language of the forwarding country, and also, if that language is not English, French or German, in English, French or German, unless any agreements concluded between the countries concerned in the transport operation provide otherwise.

635 Packages containing these articles need not bear a label conforming to model No. 9 unless the article is fully enclosed by packaging, crates or other means that prevent the ready identification of the article.

636 (a) Cells contained in equipment shall not be capable of being discharged during carriage to the extent that the open circuit voltage falls below 2 volts or two thirds of the voltage of the undischarged cell, whichever is the lower.

(b) Used lithium cells and batteries with a gross mass of not more than 500 g each collected and presented for carriage for disposal between the consumer collecting point and the intermediate processing facility, together with other non-lithium cells or batteries, are not subject to the other provisions of ADN if they meet the following conditions:

(i) The provisions of packing instruction P903b of ADR are complied with;

(ii) A quality assurance system is in place to ensure that the total amount of lithium cells or batteries in each wagon or large container/transport unit does not exceed 333 kg;

(iii) Packages shall bear the inscription: **"USED LITHIUM CELLS"**.

637 Genetically modified microorganisms and genetically modified organisms are those which are not dangerous for humans and animals, but which could alter animals, plants, microbiological substances and ecosystems in such a way as cannot occur naturally. Genetically modified microorganisms and genetically modified organisms are not subject to the requirements of ADN when authorized for use by the competent authorities of the countries of origin, transit and destination.<sup>1</sup> Live vertebrate or invertebrate animals shall not be used to carry these substances classified under this UN number unless the substance can be carried in no other way. For the carriage of easily perishable substances under this UN number appropriate information shall be given, e.g.: **"Cool at +2 °/+4 °C"** or **"Carry in frozen state"** or **"Do not freeze"**.

638 Substances related to self-reactive substances (see 2.2.41.1.19).

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<sup>1</sup> See in particular Part C of Directive 2001/18/EC of the European Parliament and of the Council on the deliberate release into the environment of genetically modified organisms and repealing Council Directive 90/220/EEC (Official Journal of the European Communities, No. L 106, of 17 April 2001, pp. 8-14), which sets out the authorization procedures for the European Community.

- 639 See 2.2.2.3, classification code 2F, UN No. 1965, Note 2.
- 640 The physical and technical characteristics mentioned in column (2) of Table A of Chapter 3.2 determine different tank codes for the carriage of substances of the same packing group in tanks conforming to Chapter 6.8 of RID or ADR.

In order to identify these physical and technical characteristics of the product carried in the tank, the following shall be added, to the particulars required in the transport document, only in case of carriage in tanks conforming to Chapter 6.8 of ADR or RID:

"Special provision 640X" where "X" is the applicable capital letter appearing after the reference to special provision 640 in column (6) of Table A of Chapter 3.2.

These particulars may, however, be dispensed with in the case of carriage in the type of tank which, for substances of a specific packing group of a specific UN number, meets at least the most stringent requirements.

- 643 Stone or aggregate asphalt mixture is not subject to the requirements for Class 9.
- 644 This substance is admitted for carriage provided that:
- The pH is between 5 and 7 measured in an aqueous solution of 10% of the substance carried;
  - The solution does not contain more than 0.2% combustible material or chlorine compounds in quantities such that the chlorine level exceeds 0.02%.
- 645 The classification code as mentioned in Column (3b) of Table A of Chapter 3.2 shall be used only with the approval of the competent authority of a Contracting Party to ADN prior to carriage. When assignment to a division is made in accordance with the procedure in 2.2.1.1.7.2, the competent authority may require the default classification to be verified on the basis of test data derived from Test Series 6 of the Manual of Tests and Criteria, Part I, Section 16.
- 646 Carbon made by steam activation process is not subject to the requirements of ADN.
- 647 Except for carriage in tank vessels, the carriage of vinegar and acetic acid with not more than 25 % pure acid by mass is subject only to the following requirements:
- (a) Packagings, including IBCs and large packagings, and tanks shall be manufactured from stainless steel or plastic material which is permanently resistant to corrosion of vinegar/acetic acid food grade;
  - (b) Packagings, including IBCs and large packagings, and tanks shall be subjected to a visual inspection by the owner at least once a year. The results of the inspections shall be recorded and the records kept for at least one year. Damaged packagings, including IBCs and large packagings, and tanks shall not be filled;
  - (c) Packagings, including IBCs and large packagings, and tanks shall be filled in a way that no product is spilled or adheres to the outer surface;
  - (d) Seals and closures shall be resistant to vinegar/acetic acid food grade. Packagings, including IBCs and large packagings, and tanks shall be

hermetically sealed by the person in charge of packaging and/or filling so that under normal conditions of carriage there will be no leakage;

- (e) Combination packagings with inner packaging made of glass or plastic (see packing instruction P001 in 4.1.4.1 of ADR) which fulfil the general packing requirements of 4.1.1.1, 4.1.1.2, 4.1.1.4, 4.1.1.5, 4.1.1.6, 4.1.1.7 and 4.1.1.8 of ADR may be used;

The other provisions of ADN do not apply except those relating to carriage in tank vessels.

648 Articles impregnated with this pesticide, such as fibreboard plates, paper strips, cotton-wool balls, sheets of plastics material, in hermetically closed wrappings, are not subject to the provisions of ADN.

649 To determine the initial boiling point, as mentioned under 2.2.3.1.3, packing group I, the test method according to standard ASTM D86-01<sup>2</sup> is suitable.

Substances which have an initial boiling point above 35 °C determined with this method are substances of packing group II and shall be classified in accordance with the applicable entry of this packing group.

650 Waste consisting of packaging residues, solidified residues and liquid residues of paint may be carried under the conditions of packing group II. In addition to the provisions of UN No. 1263, packing group II, the waste may also be packed and carried as follows:

- (a) The waste may be packed in accordance with packing instruction P002 of 4.1.4.1 of ADR or to packing instruction IBC006 of 4.1.4.2 of ADR;
- (b) The waste may be packed in flexible IBCs of types 13H3, 13H4 and 13H5 in overpacks with complete walls;
- (c) Testing of packagings and IBCs indicated under (a) or (b) may be carried out in accordance with the requirements of Chapters 6.1 or 6.5 of ADR, as appropriate, in relation to solids, at the packing group II performance level.

The tests shall be carried out on packagings and IBCs, filled with a representative sample of the waste, as prepared for carriage;

- (d) Carriage in bulk in sheeted wagons, movable roof wagons/sheeted vehicles, closed containers or sheeted large containers, all with complete walls is allowed. The wagons, containers or body of vehicles shall be leakproof or rendered leakproof, for example by means of a suitable and sufficiently stout inner lining;
- (e) If the waste is carried under the conditions of this special provision, the goods shall be declared in accordance with 5.4.1.1.3 in the transport document, as follows: "WASTE, UN 1263 PAINT, 3, II.

651 Special provision V2 (1) of ADR is only applicable for a net explosive content of more than 3,000 kg (4,000 kg with trailer).

652 (Reserved)

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<sup>2</sup> Standard Test Method for Distillation of Petroleum Products at Atmospheric Pressure, published September 2001 by ASTM International.

653 The carriage of this gas in cylinders with a maximum capacity of 0.5 litres, is not subject to the other provisions of ADN if the following conditions are met:

- The provisions for construction and testing of cylinders are observed;
- The cylinders are contained in outer packagings which at least meet the requirements of Part 4 for combination packagings. The general provisions of packing of 4.1.1.1, 4.1.1.2 and 4.1.1.5 to 4.1.1.7 of ADR shall be observed;
- The cylinders are not packed together with other dangerous goods;
- The total gross mass of a package does not exceed 30 kg; and
- Each package is clearly and durably marked with "UN 1013". This marking is displayed within a diamond-shaped area surrounded by a line that measures at least 100 mm by 100 mm.

654 Waste lighters collected separately and consigned in accordance with 5.4.1.1.3 may be carried under this entry for the purposes of disposal. They need not be protected against inadvertent discharge provided that measures are taken to prevent the dangerous build up of pressure and dangerous atmospheres.

Waste lighters, other than those leaking or severely deformed, shall be packed in accordance with packing instruction P003 of ADR. In addition the following provisions shall apply:

- only rigid packagings of a maximum capacity of 60 litres shall be used;
- the packagings shall be filled with water or any other appropriate protection material to avoid any ignition;
- under normal conditions of carriage all ignition devices of the lighters shall fully be covered by the protection material;
- the packagings shall be adequately vented to prevent the creation of flammable atmosphere and the build up of pressure;
- the packages shall only be carried in ventilated or open wagons/vehicles or containers.

Leaking or severely deformed lighters shall be carried in salvage packagings, provided appropriate measures are taken to ensure there is no dangerous build up of pressure.

*NOTE: Special provision 201 and special packing provisions PP84 and RR5 of packing instruction P002 in 4.1.4.1 of ADR do not apply to waste lighters.*

800 Oil seeds, crushed seeds and seedcake containing vegetable oil, treated with solvents, not subject to spontaneous combustion, are allocated to UN No. 3175. These substances are not subject to ADN when they have been prepared or treated to ensure that they cannot give off dangerous gases in dangerous quantities (no risk of explosion) during carriage and when this is mentioned in the transport document.

- 801 Ferrosilicon with between 25 and 30% or more than 90% silicon content by mass is a dangerous substance of Class 4.3 for carriage in bulk or without packaging by inland navigation vessel.
- 802 See 7.1.4.10.

## CHAPTER 3.4

### DANGEROUS GOODS PACKED IN LIMITED QUANTITIES

#### 3.4.1 General requirements

3.4.1.1 Packagings used in accordance with 3.4.3 to 3.4.6 below, need only to conform to the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 of ADR.

3.4.1.2 The maximum gross mass of a combination packaging shall not exceed 30 kg and for shrink and stretched wrapped trays shall not exceed 20 kg.

*NOTE:* The limit for combination packagings does not apply when LQ5 is issued.

3.4.1.3 Subject to the maximum limits in 3.4.1.2 and individual limits in table 3.4.6, dangerous goods may be packed together with other articles or substances, provided they will not react dangerously in the event of leakage.

3.4.2 When the code "LQ0" is shown in Column (7a) of Table A in Chapter 3.2 for a given substance or article, that substance or article is not exempted from any of the applicable provisions of ADN when it is packed in limited quantities, unless otherwise specified in these annexed Regulations.

3.4.3 Unless otherwise provided in this Chapter, when one of the codes "LQ1" or "LQ2" is shown in Column (7a) of Table A in Chapter 3.2 for a given substance or article, the provisions of other Chapters of ADN do not apply to the carriage of that substance or article, provided:

- (a) the provisions of 3.4.5 (a) to (c) are observed; with respect to these provisions, articles are considered to be inner packagings;
- (b) inner packagings meet the conditions of 6.2.5.1 and 6.2.6.1 to 6.2.6.3 of ADR.

3.4.4 Unless otherwise provided in this Chapter, when the code "LQ3" is shown in Column (7a) of Table A in Chapter 3.2 for a given substance, the provisions of other Chapters of ADN do not apply to the carriage of that substance, provided:

- (a) The substance is carried in combination packagings, the following outer packagings being allowed:
  - steel or aluminium drums with removable head;
  - steel or aluminium jerricans with removable head;
  - plywood or fibre drums;
  - plastics drums or jerricans with removable head;
  - boxes of natural wood, plywood, reconstituted wood, fibreboard, plastics, steel or aluminium;

and be so designed that they meet the relevant construction requirements of 6.1.4 of ADR;

- (b) The maximum net quantities per inner packaging shown in columns (2) or (4) and per package in columns (3) or (5), where indicated, of table 3.4.6 are not exceeded;

- (c) Each package is clearly and durably marked with :
- (i) the UN number of the goods contained therein, as given in Column (1) of Table A in Chapter 3.2, preceded by the letters "UN";
  - (ii) in the case of different goods with different UN numbers within a single package:
    - the UN numbers of the goods contained therein, preceded by the letters "UN", or
    - the letters "LQ"<sup>1</sup>.

These markings shall be displayed within a diamond-shaped area surrounded by a line that measures at least 100 mm × 100 mm. The width of line forming the diamond shall be at least 2 mm; the number shall be at least 6 mm high. Where more than one substance assigned to different UN numbers are included in the package, the diamond shall be large enough to include each relevant UN number. If the size of the package so requires, the dimension may be reduced, provided the markings remain clearly visible.

3.4.5 Unless otherwise provided in this Chapter, when one of the codes "LQ4" to "LQ19" and "LQ22" to "LQ28" is shown in Column (7a) of Table A in Chapter 3.2 for a given substance, the provisions of other Chapters of ADN do not apply to the carriage of that substance, provided:

- (a) The substance is carried:
  - in combination packagings, corresponding to the prescriptions of 3.4.4 (a), or
  - in metal or plastics inner packagings which are not liable to break or be easily punctured, placed in shrink-wrapped or stretch-wrapped trays;
- (b) The maximum net quantities per inner packaging shown in columns (2) or (4) and per package in columns (3) or (5), where indicated, of table 3.4.6 are not exceeded;
- (c) Each package is clearly and durably marked as indicated in 3.4.4 (c).

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<sup>1</sup> The letters "LQ" are an abbreviation of the English words "Limited Quantities". The letters "LQ" are not permitted by the IMDG Code or the ICAO Technical Instructions.

## 3.4.6 Table

| Code              | Combination packagings <sup>a</sup><br>Maximum net quantity |                          | Inner packagings placed in shrink-wrapped<br>or stretch-wrapped trays <sup>a</sup><br>Maximum net quantity |                          |
|-------------------|---|--------------------------|--|--------------------------|
|                   | per inner packaging   | per package <sup>b</sup> | per inner packaging  | per package <sup>b</sup> |
| (1)               | (2)   | (3)                      | (4)  | (5)                      |
| LQ0               | No exemption under the conditions of 3.4.2.                 |                          |  |                          |
| LQ1               | 120 ml  |                          | 120 ml   |                          |
| LQ2               | 1 l   |                          | 1 l  |                          |
| LQ3 <sup>c</sup>  | 500 ml  | 1 l                      | Not allowed  | Not allowed              |
| LQ4 <sup>c</sup>  | 3 l   |                          | 1 l  |                          |
| LQ5 <sup>c</sup>  | 5 l   | Unlimited                | 1 l  |                          |
| LQ6 <sup>c</sup>  | 5 l   |                          | 1 l  |                          |
| LQ7 <sup>c</sup>  | 5 l   |                          | 5 l  |                          |
| LQ8               | 3 kg  |                          | 500 g  |                          |
| LQ9               | 6 kg  |                          | 3 kg   |                          |
| LQ10              | 500 ml  |                          | 500 ml   |                          |
| LQ11              | 500 g   |                          | 500 g  |                          |
| LQ12              | 1 kg  |                          | 1 kg   |                          |
| LQ13              | 1 l   |                          | 1 l  |                          |
| LQ14              | 25 ml   |                          | 25 ml  |                          |
| LQ15              | 100 g   |                          | 100 g  |                          |
| LQ16              | 125 ml  |                          | 125 ml   |                          |
| LQ17              | 500 ml  | 2 l                      | 100 ml   | 2 l                      |
| LQ18              | 1 kg  | 4kg                      | 500 g  | 4 kg                     |
| LQ19              | 5 kg  |                          | 5 kg   |                          |
| LQ20              | Reserved  | Reserved                 | Reserved   | Reserved                 |
| LQ21              | Reserved  | Reserved                 | Reserved   | Reserved                 |
| LQ22              | 1 l   |                          | 500 ml   |                          |
| LQ23              | 3 kg  |                          | 1 kg   |                          |
| LQ24              | 6 kg  |                          | 2 kg   |                          |
| LQ25 <sup>d</sup> | 1 kg  |                          | 1 kg   |                          |
| LQ26 <sup>d</sup> | 500 ml  | 2 l                      | 500 ml   | 2 l                      |
| LQ27              | 6 kg  |                          | 6 kg   |                          |
| LQ28              | 3 l   |                          | 3 l  |                          |

<sup>a</sup> See 3.4.1.2.

<sup>b</sup> See 3.4.1.3.

<sup>c</sup> In the case of homogenous mixtures of Class 3 containing water, the quantities specified relate only to the substance of Class 3 contained in those mixtures.

<sup>d</sup> For UN Nos. 2315, 3151, 3152 and 3432 when carried in apparatus, the inner packaging quantities shall not be exceeded per piece of apparatus. The apparatus shall be carried in a leakproof packaging and the complete package shall conform to 3.4.4 (c). Shrink-wrapped and stretch-wrapped trays shall not be used for apparatus.

3.4.7 Overpacks containing packages conforming to 3.4.3, 3.4.4 or 3.4.5 shall be marked, as required by 3.4.4 (c) for each item of dangerous goods contained in the overpack, unless markings representative of all dangerous goods contained in the overpack are visible.

3.4.8 The requirements

- (a) of sub-section 5.2.1.9 on the placement of orientation arrows on packages;
- (b) of sub-section 5.1.2.1 (b) on the placement of orientation arrows on overpacks; and



(c) of sub-section 7.5.1.5 of ADR on the orientation of packages

shall be applicable also to packages and overpacks carried in accordance with this chapter.

3.4.9 Consignors of dangerous goods packed in limited quantities shall inform the carrier of the total gross mass of such goods to be consigned, in advance of carriage not involving maritime transport.

3.4.10 (a) Transport units with a maximum mass exceeding 12 tonnes carrying packages with dangerous goods in limited quantities shall be marked in accordance with 3.4.12 at the front and at the rear except when orange-coloured plate marking is displayed in accordance with 5.3.2.

(b) Wagons carrying packages with dangerous goods in limited quantities shall be marked in accordance with 3.4.12 on both sides except when placards in accordance with section 5.3.1 are already affixed.

(c) Containers carrying packages with dangerous goods in limited quantities shall be marked in accordance with 3.4.12 on all four sides except.

- when placards in accordance with section 5.3.1 are already affixed;
- for small containers loaded on a wagon;
- for containers loaded on a transport unit with a maximum mass less than or equal to 12 tonnes.

If the containers are loaded on a transport unit or wagon, the carrying transport unit or wagon need not be marked, except when the marking affixed to the containers is not visible from the outside of this carrying transport unit or wagon. In this latter case, the same marking shall also be affixed at the front and the rear of the carrying transport unit, or on both sides of the carrying wagon.

3.4.11 Markings specified in 3.4.10 may be dispensed with, if the total gross mass of the packages containing dangerous goods packed in limited quantities carried does not exceed 8 tonnes per transport unit, wagon or large container.

3.4.12 The marking shall consist of "LTD QTY"<sup>2</sup> in black letters not less than 65 mm high on a white background.

3.4.13 Markings according to chapter 3.4 of the IMDG Code are also acceptable for carriage in a transport chain including maritime carriage.

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<sup>2</sup> The letters "LTD QTY" are an abbreviation of the English words "Limited Quantity".

**CHAPTER 3.5****DANGEROUS GOODS PACKED IN EXCEPTED QUANTITIES****3.5.1 Excepted quantities**

3.5.1.1 Excepted quantities of dangerous goods of certain classes, other than articles, meeting the provisions of this Chapter are not subject to any other provisions of ADN except for:

- (a) The training requirements in Chapter 1.3;
- (b) The classification procedures and packing group criteria in Part 2;
- (c) The packaging requirements of 4.1.1.1, 4.1.1.2, 4.1.1.4 and 4.1.1.6 of ADR.

**NOTE:** *In the case of radioactive material, the requirements for radioactive material in excepted packages in 1.7.1.5 apply.*

3.5.1.2 Dangerous goods which may be carried as excepted quantities in accordance with the provisions of this Chapter are shown in column 7b of Table A of Chapter 3.2 list by means of an alphanumeric code as follows:

| <b>Code</b> | <b>Maximum net quantity per inner packaging</b><br>(in grams for solids and ml for liquids and gases) | <b>Maximum net quantity per outer packaging</b><br>(in grams for solids and ml for liquids and gases, or sum of grams and ml in the case of mixed packing) |
|-------------|---|--|
| E0          | Not permitted as Excepted Quantity  |  |
| E1          | 30  | 1000   |
| E2          | 30  | 500  |
| E3          | 30  | 300  |
| E4          | 1   | 500  |
| E5          | 1   | 300  |

For gases, the volume indicated for inner packagings refers to the water capacity of the inner receptacle and the volume indicated for outer packagings refers to the combined water capacity of all inner packagings within a single outer packaging.

3.5.1.3 Where dangerous goods in excepted quantities for which different codes are assigned are packaged together the total quantity per outer packaging shall be limited to that corresponding to the most restrictive code.

**3.5.2 Packagings**

Packagings used for the carriage of dangerous goods in excepted quantities shall be in compliance with the following:

- (a) There shall be an inner packaging and each inner packaging shall be constructed of plastic (with a minimum thickness of 0.2 mm when used for liquids), or of glass, porcelain, stoneware, earthenware or metal (see also 4.1.1.2 of ADR) and the closure of each inner packaging shall be held securely in place with wire, tape or other positive means; any receptacle having a neck with moulded screw threads shall have a leak proof threaded type cap. The closure shall be resistant to the contents;
- (b) Each inner packaging shall be securely packed in an intermediate packaging with cushioning material in such a way that, under normal conditions of carriage, they cannot break, be punctured or leak their contents. The intermediate packaging shall completely contain the contents in case of breakage or leakage, regardless of package orientation. For liquids, the intermediate packaging shall contain sufficient absorbent material to absorb the entire contents of the inner packaging. In such cases, the absorbent material may be the cushioning material. Dangerous goods shall not react dangerously with cushioning, absorbent material and packaging material or reduce the integrity or function of the materials;
- (c) The intermediate packaging shall be securely packed in a strong, rigid outer packaging (wooden, fibreboard or other equally strong material);
- (d) Each package type shall be in compliance with the provisions in 3.5.3;
- (e) Each package shall be of such a size that there is adequate space to apply all necessary markings; and
- (f) Overpacks may be used and may also contain packages of dangerous goods or goods not subject to the requirements of ADN.

### 3.5.3 Tests for packages

3.5.3.1 The complete package as prepared for carriage, with inner packagings filled to not less than 95% of their capacity for solids or 98% for liquids, shall be capable of withstanding, as demonstrated by testing which is appropriately documented, without breakage or leakage of any inner packaging and without significant reduction in effectiveness:

- (a) Drops onto a rigid, non-resilient flat and horizontal surface from a height of 1.8 m:
  - (i) Where the sample is in the shape of a box, it shall be dropped in each of the following orientations:
    - flat on the base;
    - flat on the top;
    - flat on the longest side;
    - flat on the shortest side;
    - on a corner;
  - (ii) Where the sample is in the shape of a drum, it shall be dropped in each of the following orientations:
    - diagonally on the top chime, with the centre of gravity directly above the point of impact;
    - diagonally on the base chime;
    - flat on the side;

*NOTE: Each of the above drops may be performed on different but identical packages.*

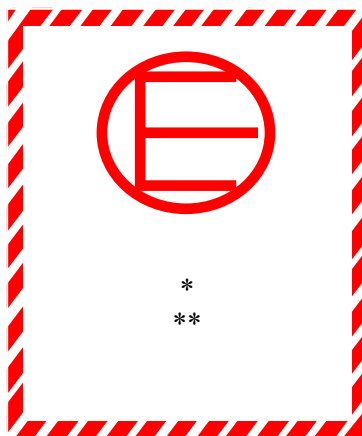
- (b) A force applied to the top surface for a duration of 24 hours, equivalent to the total weight of identical packages if stacked to a height of 3 m (including the sample).

3.5.3.2 For the purposes of testing, the substances to be carried in the packaging may be replaced by other substances except where this would invalidate the results of the tests. For solids, when another substance is used, it must have the same physical characteristics (mass, grain size, etc.) as the substance to be carried. In the drop tests for liquids, when another substance is used, its relative density (specific gravity) and viscosity should be similar to those of the substance to be carried.

### 3.5.4 Marking of packages

3.5.4.1 Packages containing excepted quantities of dangerous goods prepared in accordance with this Chapter shall be durably and legibly marked with the mark shown in 3.5.4.2. The first or only label number indicated in column (5) of Table A of Chapter 3.2 for each of the dangerous goods contained in the package shall be shown in the mark. Where the name of the consignor or consignee is not shown elsewhere on the package this information shall be included within the mark.

3.5.4.2 The dimensions of the mark shall be a minimum of 100 mm × 100 mm.



Excepted quantities mark

Hatching and symbol of the same colour, black or red,  
on white or suitable contrasting background

\* The first or only label number indicated in column (5) of Table A of Chapter 3.2 shall be shown in this location.

\*\* The name of the consignor or of the consignee shall be shown in this location if not shown elsewhere on the package.

3.5.4.3 An overpack containing dangerous goods in excepted quantities shall display the markings required by 3.5.4.1, unless such markings on packages within the overpack are clearly visible.

### 3.5.5 Maximum number of packages in any vehicle, wagon or container

The number of packages in any vehicle, wagon or container shall not exceed 1 000.

**3.5.6 Documentation**

If a document or documents (such as a bill of lading, air waybill or CMR/CIM consignment note) accompanies(y) dangerous goods in excepted quantities, at least one of these documents shall include the statement “Dangerous Goods in Excepted Quantities” and indicate the number of packages.