INTERNATIONAL MARITIME ORGANIZATION

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SUB-COMMITTEE ON DANGEROUS GOODS, SOLID CARGOES AND CONTAINERS
13th session
Agenda item 3

DSC 13/INF.3/Add.3
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ENGLISH ONLY

AMENDMENTS TO THE IMDG CODE AND SUPPLEMENTS INCLUDING HARMONIZATION OF THE IMDG CODE WITH THE UN RECOMMENDATIONS ON THE TRANSPORT OF DANGEROUS GOODS

Consolidated text of International Maritime Dangerous Goods (IMDG) Code amendment (34-08)

Note by the Secretariat

SUMMARY

Executive summary:	In order to facilitate the preparation of draft amendment (35-10) to the IMDG Code, this document transmits the text of the IMDG Code (resolution MSC.122(75)) incorporating amendments (32-04) (resolution MSC.157(78)), (33-06) (resolution MSC.205(81)) and (34-08) (resolution MSC.262(84))
Action to be taken:	Paragraph 3
Related document:	MSC 84/24/Add.1

1 In order to facilitate the preparation of draft amendment (35-10), the Secretariat has prepared a consolidated text of the IMDG Code (resolution MSC.122(75)) incorporating amendments (32-04) (resolution MSC.157(78)), (33 06) (resolution MSC.205(81)) and (34-08) (resolution MSC.262(84)), as set out in the annex and addenda 1 to 3.

2 Due to the volume of the Code, the complete text of the Code is transmitted as follows:

.1 DSC 13/INF.3, annex, comprises table of contents, part 1, part 2 and part 3;

.2 DSC 13/INF.3/Add.1, comprises part 3 (continued) Dangerous Goods List;

.3 DSC 13/INF.3/Add.2, comprises part 4, part 5 and part 6; and

.4 DSC 13/INF.3/Add.3, comprises part 7, appendix A, appendix B and Index.

Action requested of the Sub-Committee

3 The Sub-Committee is invited to note the above information and take action as appropriate.

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ANNEX

PART 7

PROVISIONS CONCERNING TRANSPORT OPERATIONS

Chapter 7.1

Stowage

7.1.1 General provisions

7.1.1.1 Except in class 1 - *Explosives* (see 7.1.7), ships are divided into two groupings for the purpose of making appropriate stowage recommendations:

.1 cargo ships or passenger ships carrying a number of passengers limited to not more than 25 or to 1 passenger per 3 m of overall length, whichever is the greater number;

.2 other passenger ships in which the limiting number of passengers transported is exceeded.

7.1.1.2 Stowage categories

Substances, materials and articles shall be stowed as indicated in the Dangerous Goods List in accordance with one of the categories specified below (see also appendix B):

7.1.1.2.1 *Stowage category A*

Cargo ships or passenger ships carrying a number of passengers limited to not more than 25 or to 1 passenger per 3 m of overall length, whichever is the greater number	}	ON DECK OR UNDER DECK
Other passenger ships in which the limiting number of passengers transported is exceeded	}	ON DECK OR UNDER DECK

7.1.1.2.2 *Stowage category B*

Cargo ships or passenger ships carrying a number of passengers limited to not more than 25 or to 1 passenger per 3 m of overall length, whichever is the greater number	}	ON DECK OR UNDER DECK
Other passenger ships in which the limiting number of passengers transported is exceeded	}	ON DECK ONLY

7.1.1.2.3 *Stowage category C*

Cargo ships or passenger ships carrying a number of passengers limited to not more than 25 or to 1 passenger per 3 m of overall length, whichever is the greater number	}	ON DECK ONLY
Other passenger ships in which the limiting number of passengers transported is exceeded	}	ON DECK ONLY

7.1.1.2.4 ***Stowage category D***

Cargo ships or passenger ships carrying a number of passengers limited to not more than 25 or to 1 passenger per 3 m of overall length, whichever is the greater number	}	ON DECK ONLY
Other passenger ships in which the limiting number of passengers transported is exceeded	}	**PROHIBITED**

7.1.1.2.5 ***Stowage category E***

Cargo ships or passenger ships carrying a number of passengers limited to not more than 25 or to 1 passenger per 3 m of overall length, whichever is the greater number	}	ON DECK OR UNDER DECK
Other passenger ships in which the limiting number of passengers transported is exceeded	}	**PROHIBITED**

7.1.1.3 Because of the rapidity with which an accident involving dangerous goods may affect the whole ship, the transport of some particularly dangerous substances, materials or articles is not permitted aboard "other passenger ships" where large numbers of people may need to be evacuated at short notice. This is indicated in the Dangerous Goods List.

7.1.1.4 If spillages or leakages of dangerous goods occur in an *under-deck* cargo space, precautions shall be taken to prevent the inadvertent pumping of such spillages or leakages through the machinery space bilge piping and pumps.

7.1.1.5 The minimum stacking height for testing packagings intended to contain dangerous cargoes in accordance with chapter 6.1 is 3 m, for IBCs and large packagings the stacking test load shall be determined in accordance with 6.5.4.6.4 and 6.6.5.3.3.4 respectively. At the discretion of the master, stowing to a greater height is allowed, taking into account the conditions of stowage and the degree of support and reinforcement provided.

7.1.1.5.1 Drums containing dangerous goods shall always be stowed in an upright position unless otherwise authorized by the competent authority.

7.1.1.6 Where *on or under deck* stowage is permitted, stowage under deck is recommended wherever possible, except that, for certain articles of class 1 whose principal hazard is the production of smoke or toxic fumes, stowage *on deck* is recommended (see also 7.1.7.1.7.2).

7.1.1.7 Fibreboard boxes and other packages susceptible to water damage shall be stowed *under deck* or, if they are stowed *on deck*, they shall be so protected that at no time they are exposed to weather or to seawater.

7.1.1.8 Stowage *on deck only* has been prescribed in cases where:

.1 constant supervision is required; or

.2 accessibility is particularly required; or

.3 there is a substantial risk of formation of explosive gas mixtures, development of highly toxic vapours, or unobserved corrosion of the ship.

7.1.1.9 When dangerous goods are stowed *on deck*, hydrants, sounding pipes and the like and access thereto shall be kept free and clear of such deck cargo.

7.1.1.10 At all times the stowage of dangerous goods shall be so arranged:

.1 as to ensure clear walkways and access to all the facilities necessary for the safe working of the ship; and

.2 that, for goods possessing a particular hazard, the special provisions regarding stowage, which are included in the Dangerous Goods List or in this chapter, are observed.

7.1.1.11 Notwithstanding the stowage provisions given in the Dangerous Goods List, empty uncleaned receptacles which shall be stowed *on deck only* when full may be stowed *on deck or under deck* in a mechanically ventilated cargo space. Empty uncleaned cylinders which carry a label of class 2.3 shall be stowed *on deck only* (see also 4.1.1.11).

7.1.1.12 For stowage of dangerous goods in limited quantities, see 3.4.3

7.1.1.13 Where it is necessary to prevent pressure build-up, decomposition or polymerization of a substance, the packages shall be stowed s*haded from radiant heat*, which includes protection from strong sunlight.

7.1.1.14 When it is indicated in the Dangerous Goods List that the substances shall be stowed *shaded from radiant heat*, stowage *under deck* shall be "away from" sources of heat.

7.1.1.15 Where, for certain dangerous goods, protection from sources of heat is required, this shall be taken to include sparks, flames, steam pipes, heating coils, top or side walls of heated fuel and cargo tanks, and bulkheads of machinery spaces (see regulation II-1/2.8 of SOLAS, 1974 (as amended)); alternatively, for the latter, such bulkheads shall be insulated to A-60 standards or equivalent, except that in the case of explosives, in addition to an A-60 bulkhead, "away from" stowage shall be maintained.

7.1.1.16 Portable tanks shall not be overstowed by other cargo transport units unless they are designed for that purpose and transported in specially designed ships, or unless they are specially protected to the satisfaction of the competent authority.

7.1.2 Stowage in relation to living quarters

7.1.2.1 Where stowage *clear of living quarters* is required, in deciding the stowage, consideration shall be given to the possibility that leaking vapours may penetrate the accommodation, machinery spaces and other work areas via entrances or other openings in bulkheads or through ventilation ducts.

7.1.2.2 The criteria for identifying the substances, materials and articles for which such stowage is required are:

.1 volatile toxic substances;

.2 volatile corrosive substances;

.3 substances which, in moist air, produce toxic or corrosive vapours;

.4 substances which evolve strongly narcotic vapours;

.5 flammable, toxic or corrosive gases of class 2.

7.1.2.3 For those substances which shall be stowed *clear of living quarters*, this is indicated in column 16 of the Dangerous Goods List.

7.1.2.4 All infectious substances shall be stowed "separated by a complete compartment or hold from" living quarters.

7.1.3 Stowage in relation to undeveloped films and plates, and mailbags

Undeveloped photographic films and plates, and mailbags (which shall be assumed to contain them), shall be segregated from class 7 materials in accordance with 7.2.9.8.

7.1.4 Stowage of marine pollutants

7.1.4.1 Taking into account the severe hazards to the marine environment to which incidents involving marine pollutants may lead, it is necessary that these substances are properly stowed and secured so as to minimize these hazards without impairing the safety of the ship and the persons on board.

7.1.4.2 Where stowage is permitted *on deck or under deck*, *under deck* stowage is preferred except when a weather deck provides equivalent protection.

7.1.4.3 Where stowage *on deck only* is required, preference shall be given to stowage on well-protected decks or to stowage inboard in sheltered areas of exposed decks.

7.1.5 Stowage in relation to foodstuffs

7.1.5.1 Substances and articles for which toxicity is indicated by a label of class 6.1, packing groups I and II, or a label of class 2.3 shall be stowed "separated from" foodstuffs except when the substances and the foodstuffs are in different closed cargo transport units. In such cases, no segregation is required between units.

7.1.5.2 All infectious substances shall be stowed "separated by a complete compartment or hold from" all foodstuffs.

7.1.5.3 Material for which radioactivity is indicated by a label of class 7 shall be stowed "separated from" foodstuffs.

7.1.5.4 Substances and articles for which corrosivity is indicated by a label of class 8 and substances for which toxicity is indicated by a label of class 6.1, packing group III shall be stowed "away from" foodstuffs.

7.1.5.5 For the definitions of "separated by a complete compartment or hold from", "separated from" and "away from" see chapter 7.2.

7.1.6 Stowage of solutions and mixtures

7.1.6.1 Solutions or mixtures containing one or more non-dangerous substances and a dangerous substance identified by name in this Code shipped under a generic or N.O.S. entry shall be stowed in accordance with the stowage category assigned to this generic or N.O.S. entry.

7.1.7 Stowage and handling of goods of class 1

7.1.7.1 Definitions for stowage of class 1

For the purpose of this section, the following types of stowage are referred to in Column 16 of the Dangerous Goods List.

7.1.7.1.1 *Closed cargo transport unit* means a unit which fully encloses the contents by permanent structures and can be secured to the ship's structure, and includes a magazine. Cargo transport units with fabric sides or tops are not closed cargo transport units. Where this stowage is specified, stowage in small compartments such as deck-houses and mast lockers are acceptable alternatives. The floor of any closed cargo transport unit or compartment shall either be constructed of wood, close-boarded or so arranged that goods are stowed on sparred gratings, wooden pallets or dunnage. Provided that the necessary additional specifications are met, a closed cargo transport unit may be used for type "A" or "C" class 1 stowage or as a magazine.

7.1.7.1.2 *Magazine* means a closed cargo transport unit or a *compartment* in the ship designed to protect certain goods of class 1 from damage by other cargo during loading and unloading, and adverse weather conditions when in transit, and to prevent unauthorized access. Magazines may also be a fixed compartment in a ship. Magazines may be positioned in any part of the ship conforming with the general stowage conditions for goods of class 1 (see 7.1.7.4) but magazines which are fixed structures shall be sited so that their doors, where fitted, are easily accessible.

7.1.7.1.3 *Secured to the ship's structure* in the context of on deck stowage of goods of class 1 means any closed cargo transport unit or large unpackaged article (see 4.1.5.15), which shall be securely stowed and lashed to prevent the shifting of the goods.

7.1.7.1.4 *Magazine stowage types "A", "C"* and *Special stowage*. The stowage of class 1 substances and certain articles is subject to varying levels of containment (except for compatibility group S substances) when stowed below deck. The levels are dependent on hazard presented by the nature of the particular goods involved. The different levels of containment are defined below as *"A", "C"* and *"Special"*. *Magazine stowage type "A"* is given to those substances which shall be kept clear of steelwork. All other substances except EXPLOSIVE SUBSTANCES, N.O.S. in compatibility groups G or L and those in compatibility group A are given *closed cargo transport unit* stowage. Substances in compatibility group A are given *magazine stowage type "C"*. EXPLOSIVE SUBSTANCES, N.O.S. in compatibility groups G and L and some articles in compatibility groups G, H, L and K which are particularly hazardous are given *special stowage*. Column 16 of the Dangerous Goods List specifies the type of stowage applicable to each substance or article.

7.1.7.1.5 *Magazine stowage type "A"* means that the inner sides and floors of cargo transport units and compartments on the ship shall be close-boarded with wood. The roof or deckhead shall be clean and free of rust or scale. It need not be battened. The top of the stow shall be at least 300 mm from the roof or deckhead. This form of stowage guards against friction between any spilled contents from packages and the sides of magazines or the ship's sides and bulkheads.

When utilized as part of the structure of the space, the ship's sides and bulkheads shall be clean and free from rust or scale and shall be protected by battening or sweatboards spaced not more than 150 mm apart. All stanchions and other unprotected ironwork shall be similarly clean and battened. When other goods of class 1 are stowed in the unit or space with goods requiring *magazine stowage type "A"*, it is essential to ensure that their packagings have no exposed external parts made of ferrous metal or aluminium alloy. When in the square of a cargo space, loading shall not take place from the top unless special precautions are taken.

7.1.7.1.6 *Magazine stowage type "C"* means a closed cargo transport unit positioned as near as practicable to the centreline of the ship; it shall not be positioned closer to the ship's side than a distance equal to one eighth of the beam or 2.4 m, whichever is the lesser.

7.1.7.1.7 *Special stowage*

.1 Goods of class 1 allocated to this category shall be stowed as far away as practicable from living quarters and from work areas, and shall not be overstowed. Closed cargo transport units used for goods of this category shall not be positioned closer to the ship's side than a distance equal to one eighth of the beam or 2.4 m, whichever is the lesser.

.2 This stowage is allocated to certain articles of which the principal hazard is that of fire and leakage of the contents, accompanied by dense smoke or tear-producing or toxic fumes (compatibility group G, H, or K), and also to substances and articles which present a special risk (compatibility group L). Where on-deck stowage is recommended but not possible, the goods shall always be subject to special stowage.

.3 Goods in compatibility groups G or H may be transported in steel magazines. A steel cargo transport unit which prevents leakage of contents may also be used for this purpose. Alternative arrangements may also be agreed by the competent authority concerned.

.4 Goods of only one compatibility group shall be stowed in any one compartment. When separate compartments are not available, the competent authority may allow goods in compatibility groups G and H to be stowed in the same compartment not less than 3 m apart, provided they are placed in separate steel magazines.

.5 Goods in compatibility group K or L shall be transported in steel magazines.

7.1.7.2 Stowage categories

For the purpose of column 16 in the Dangerous Goods List, class 1 goods (see 7.1.7.1) shall be stowed as indicated in column 16 of the Dangerous Goods List in accordance with one of the categories specified below. Where categories indicate that goods of class 1 may be transported in a passenger ship, the maximum net explosive mass that may be transported on any passenger ship shall be determined in accordance with 7.1.7.5

Stowage category 01	Cargo ship (up to 12 passengers)	ON DECK OR UNDER DECK
	Passenger ship	ON DECK OR UNDER DECK
Stowage category 02	Cargo ship (up to 12 passengers)	ON DECK OR UNDER DECK
	Passenger ship	ON DECK IN CLOSED CARGO TRANSPORT UNITS OR UNDER DECK IN CLOSED CARGO TRANSPORT UNITS
Stowage category 03	Cargo ship (up to 12 passengers)	ON DECK OR UNDER DECK
	Passenger ship	ON DECK ONLY IN CLOSED CARGO TRANSPORT UNITS
Stowage category 04	Cargo ship (up to 12 passengers)	ON DECK OR UNDER DECK
	Passenger ship	**PROHIBITED**
Stowage category 05	Cargo ship (up to 12 passengers)	ON DECK IN CLOSED CARGO TRANSPORT UNITS OR UNDER DECK
	Passenger ship	ON DECK IN CLOSED CARGO TRANSPORT UNITS OR UNDER DECK
Stowage category 06	Cargo ship (up to 12 passengers)	ON DECK IN CLOSED CARGO TRANSPORT UNITS OR UNDER DECK
	Passenger ship	ON DECK IN CLOSED CARGO TRANSPORT UNITS OR UNDER DECK IN CLOSED CARGO TRANSPORT UNITS
Stowage category 07	Cargo ship (up to 12 passengers)	ON DECK IN CLOSED CARGO TRANSPORT UNITS OR UNDER DECK
	Passenger ship	ON DECK ONLY IN CLOSED CARGO TRANSPORT UNITS
Stowage category 08	Cargo ship (up to 12 passengers)	ON DECK IN CLOSED CARGO TRANSPORT UNITS OR UNDER DECK
	Passenger ship	**PROHIBITED**
Stowage category 09	Cargo ship (up to 12 passengers)	ON DECK IN CLOSED CARGO TRANSPORT UNITS OR UNDER DECK IN CLOSED CARGO TRANSPORT UNITS
	Passenger ship	ON DECK IN CLOSED CARGO TRANSPORT UNITS OR UNDER DECK IN CLOSED CARGO TRANSPORT UNITS
Stowage category 10	Cargo ship (up to 12 passengers)	ON DECK IN CLOSED CARGO TRANSPORT UNITS OR UNDER DECK IN CLOSED CARGO TRANSPORT UNITS
	Passenger ship	ON DECK ONLY IN CLOSED CARGO TRANSPORT UNITS
Stowage category 11	Cargo ship (up to 12 passengers)	ON DECK IN CLOSED CARGO TRANSPORT UNITS OR UNDER DECK IN MAGAZINE STOWAGE TYPE “C”
	Passenger ship	ON DECK ONLY IN CLOSED CARGO TRANSPORT UNITS
Stowage category 12	Cargo ship (up to 12 passengers)	ON DECK IN CLOSED CARGO TRANSPORT UNITS OR UNDER DECK IN MAGAZINE STOWAGE TYPE “C”
	Passenger ship	**PROHIBITED**

Stowage category 13	Cargo ship (up to 12 passengers)	ON DECK IN CLOSED CARGO TRANSPORT UNITS OR UNDER DECK IN MAGAZINE STOWAGE TYPE "A"
	Passenger ship	ON DECK ONLY IN CLOSED CARGO TRANSPORT UNITS
Stowage category 14	Cargo ship (up to 12 passengers)	ON DECK ONLY IN CLOSED CARGO TRANSPORT UNITS
	Passenger ship	**PROHIBITED**
Stowage category 15	Cargo ship (up to 12 passengers)	ON DECK IN CLOSED CARGO TRANSPORT UNITS OR UNDER DECK IN CLOSED CARGO TRANSPORT UNITS
	Passenger ship	**PROHIBITED**

7.1.7.3 Application of stowage provisions for class 1

Goods of class 1 requiring *under deck* and *on deck* stowage shall be stowed in accordance with 7.1.7.4. However, the provisions of 7.1.7.4.4, 7.1.7.4.5 and 7.1.7.4.6 need not be applied to goods of division 1.4, compatibility group S. Such goods may be stowed together with all other goods of class 1 except those in compatibility group A or L (see 7.2.7.2.1.4).

7.1.7.4 Stowage provisions for goods of class 1

7.1.7.4.1 ***General***

7.1.7.4.1.1 For under deck stowage of class 1 goods in stowage categories 09 and 10:

.1 avoid stowage of other cargo in the same compartment or hold if it is readily combustible (such as items packaged in straw);

.2 maintain direct access to by not overstowing goods by goods other than class 1; and

.3 in all cases, all goods, including goods of class 1 stowed in cargo transport units, within the compartment or hold shall be so secured as to eliminate the possibility of significant movement. Where an entire deck is utilized as a magazine, the stowage shall be so arranged that the goods stowed therein will be removed from the ship before working any cargo in any decks above or below that deck in the same hold.

7.1.7.4.1.2 Goods of class 1 with the exception of goods in division 1.4, shall not be stowed in the outermost row.

7.1.7.4.2 ***Sources of heat***

.1 Goods of class 1 shall be stowed in a cool part of the ship and shall be kept as cool as practicable while on board. Stowage shall be "away from" (see 7.2.2.2.1) all sources of heat (see 7.1.1.15).

.2 The compartments shall be clean. In order to reduce the risk of ignition, the space shall be free of dust from other cargoes, such as grain or coal dust.

7.1.7.4.3 ***Wetness***

Compartments where goods of class 1 are to be stowed *under deck* shall be dry. In the event of the contents of packages being affected by water whilst on board, immediate advice shall be sought from the shipper; pending this advice, handling of the packages shall be avoided.

7.1.7.4.4 ***Securement***

Goods of class 1 shall be properly secured to prevent significant movement during the voyage. Cargo transport units which contain goods of class 1 or large unpackaged articles shall be securely stowed and lashed to prevent the shifting of the goods. Goods within a compartment, within a hold or within a cargo transport unit which also contains goods of class 1 shall be secured so as to eliminate the possibility of significant movement. Where necessary, precautions shall be taken to prevent cargo sliding down between the frames at the ship's side.

7.1.7.4.5 ***Stowage of rockets and rocket motors***

.1 Rockets or rocket motors of small or medium size - i.e. those normally transported in the assembled condition - which are fitted with their complete ignition system (self-propulsive) may be transported, whether in palletized unit loads or not, without restriction on the stowage configuration, provided that they are EFFECTIVELY mechanically restrained from significant flight by strapping or other means embodied in the packing design, or that they embody one or more of the following safeguards:

.1 Electro-explosive devices incorporated in the ignition system shall be effectively protected against stray currents from any source and the venturi shall be effectively protected to prevent accidental ignition.

.2 In the case of percussion ignition systems, the percussion device shall be effectively protected.

.3 The firing route from igniter to propellant charge shall be interrupted by a mechanical shutter or by displacement of part of the explosives train and the venturi shall be effectively capped to prevent accidental ignition.

.4 The rockets or rocket motors shall be fitted with aerodynamic "spoilers" - or, better still, flight spoilers - of an approved design.

.2 Rockets or rocket motors of large size - i.e. those normally transported in an unassembled condition - shall always be moved under the following stowage restrictions when in the self-propulsive state:

.1 the OUTER packaging shall be marked to indicate the head end of the rocket or rocket motor, and

.2 the rockets or rocket motors shall be stowed with heads towards and not more than 30 cm away from a bulkhead, deck, deckhead or the ship's side.

.3 Rockets or rocket motors of ANY size which do not meet the requirements stated in paragraph .1.1 to .1.4 above shall be moved under the stowage restrictions detailed in paragraph .2.

7.1.7.4.6 ***Separation from living quarters and machinery spaces***

.1 Goods of class 1 shall be stowed as far away as possible from living quarters and machinery spaces and shall not be stowed directly above or below such spaces. Where

the provisions of this subsection are less stringent than those of SOLAS 1974, as amended, the Convention's provisions shall be satisfied for ships to which they are applicable.

.2 There shall be a permanent steel "A" class bulkhead between living quarters and a compartment containing goods of class 1. Goods in division 1.1, 1.2, 1.3, or 1.5 shall not be stowed within 3 m of this bulkhead; in the decks immediately above or below, they shall be stowed at least 3 m from the line of this bulkhead projected vertically.

.3 There shall be a permanent steel "A" class bulkhead between a compartment containing goods of class 1 and a machinery space. Goods of class 1 (except those in division 1.4, compatibility group S) shall not be stowed within 3 m of this bulkhead; in the decks above or below, they shall be stowed at least 3m from the line of this bulkhead projected vertically. Unless the separation bulkhead between the machinery space of category "A" and a compartment containing goods of class 1 is insulated to class "A-60" standard, additional measures, as indicated in appendix 2 of this chapter, shall be taken for goods other than in Division 1.4, compatibility group S; see also 7.1.7.4.6.5.

.4 Where goods of class 1 are stowed "away from" bulkheads bounding living quarters or machinery spaces, the intervening space may be filled with cargo that is not readily combustible.

.5 In ships the keels of which were laid before 1 September 1984 and where these requirements may prove impracticable, alternative arrangements as detailed in appendix 2 of this chapter may be approved by the competent authority of the flag State.

.6 Goods of class 1 shall not be stowed within a horizontal distance of 6 metres from any open fire, machinery exhausts, galley uptakes, lockers used for combustible stores, or other potential sources of ignition. They shall always be so stowed as to ensure clear walkways and be "away from" all other facilities necessary for the safe working of a ship and be clear of fire hydrants, steam pipes and means of access, and be not less than a horizontal distance of 8metres from the bridge, living quarters and life-saving appliances.

7.1.7.4.7 ***Electrical equipment and cables***

.1 Electrical equipment and cables shall not generally be installed in compartments in which goods of class 1 are to be transported. Where they are installed but do not need to be energized during the voyage or where they do not meet the required standard (see appendix 3), they shall be isolated from the supply so that no part of the circuit within the compartment is energized. The method of isolation may be by opening switches or circuit breakers, or by disconnection from busbars or by the removal of links in the system. In any case, the means, or access to the means, of disconnection and of reconnection shall be padlocked off and under the control of a responsible person.

.2 When electrical equipment and cables in a compartment in which goods of class 1 are to be transported need to be energized during the voyage for the safe operation of the ship, they shall meet the recognized standards (see appendix 3 of this chapter). All electrical equipment and cables shall be tested by a skilled person to ensure that they are safe, and to determine satisfactory insulation resistance and continuity of the cable

cores and continuity and earthing of metal sheathing or armouring, and shall be so certified by that person.

.3 All goods of class 1 shall be stowed in a safe position relative to electrical equipment and cables. Additional physical protection shall be provided, where necessary, to minimize possible damage to the electrical equipment and cables, especially during loading and unloading.

.4 Cable joints in compartments shall be avoided where possible. When joints are unavoidable, they shall be enclosed in metal-clad junction boxes of the recognized standard (see appendix 3 of this chapter).

.5 All lighting shall be of the fixed type and shall meet the relevant inspection, test and installation standards of this section.

.6 Standards required for electrical equipment and cables in compartments, including permanently fixed magazines, where explosives dust may be encountered or where articles containing a flammable liquid may be stowed are specified in appendix 3 of this chapter. In all other cases, equipment and cables appropriate to the compartment may be used only if tested in accordance with 7.1.7.4.7.2.

7.1.7.4.8 ***Lightning protection***

A lightning conductor, earthed to the sea, shall be provided on any mast or structure, unless effective electrical bonding is provided between the sea and the mast or structure from its extremity and throughout to the main body of the hull structure. Steel masts in ships of all-welded construction may be considered to comply with this requirement.

7.1.7.4.9 ***Security***

All compartments, magazines and cargo transport units shall be locked or suitably secured in order to prevent unauthorized access. The means of locking and securing shall be such that, in the case of emergency, access can be gained without delay.

7.1.7.4.10 Loading and unloading operations

In the event that a package containing goods of class 1 is found to be suffering from breakage or leakage expert advice should be obtained for its safe handling and disposal (see 7.3.1.3). Loading and unloading procedures and equipment used should be of such a nature that sparks are not produced, in particular where the floors of the cargo compartment are not constructed of close-boarded wood. All cargo handlers should be briefed by the shipper or receiver of the possible risks and necessary precautions, prior to commencing the handling of explosives.

7.1.7.5 Transport of goods of class 1 on passenger ships

7.1.7.5.1 For the purpose of stowage in this class, the terms “passenger ship” and “cargo ship” are used as in SOLAS 1974, as amended.

7.1.7.5.2 Explosives in division 1.4, compatibility group S, may be transported in any amount on passenger ships. No other explosives may be transported on passenger ships except any one of the following:

.1 explosive articles for life-saving purposes listed in the Dangerous Goods List, if the total net explosives mass of such articles does not exceed 50 kg per ship; or

.2 goods in compatibility groups C, D and E, if the net explosives mass does not exceed 10 kg per ship; or

.3 articles in compatibility group G other than those requiring special stowage, if the total net explosives mass does not exceed 10 kg per ship; or

.4 articles in compatibility group B, if the total net explosives mass does not exceed 10 kg per ship.

7.1.7.5.3 Notwithstanding the provisions of 7.1.7.5.2, additional quantities or types of goods of class 1 may be transported in passenger ships in which there are special safety measures approved by the competent authority.

7.1.7.5.4 Articles in compatibility group N shall only be allowed in passenger ships if the total net explosives mass does not exceed 50 kg per ship and no other explosives apart from Division 1.4, compatibility group S, are transported.

7.1.7.5.5 Goods of class 1 which may be transported in passenger ships are identified in the Dangerous Goods List. They shall be stowed in accordance with the following table:

Division	**Samples, explosive**	**Compatibility group**												
		A	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**J**	**K**	**L**	**N**	**S**
1.1	d	c	e	e	e	e	c	e	-	c	-	c	-	-
1.2	d	-	e	e	e	e	c	e	c	c	c	c	-	-
1.3	d	-	-	e	-	-	c	e	c	c	c	c	-	-
1.4	d	-	b	b	b	b	c	b	-	-	-	-	-	a
1.5	d	-	-	-	e	-	-	-	-	-	-	-	-	-
1.6	d	-	-	-	-	-	-	-	-	-	-	-	e	-

a = As for cargo ships, *on deck or under deck*.
b = As for cargo ships, *on deck or under deck*, in magazines only.
c = Prohibited; this provision overrides all others.
d = As specified by the competent authority of the country concerned, with regard to the provisions of 7.1.7.
e = In containers or the like, on deck only.

7.1.8 Stowage of goods of class 2

7.1.8.1 General stowage precautions for goods of class 2

7.1.8.1.1 Receptacles shall be kept as cool as reasonably practicable during transport and should be stowed “away from” all sources of heat.

7.1.8.1.2 Receptacles shall be stowed in the following manner:

.1 Receptacles shall be dunnaged to prevent their resting directly on a steel deck. They shall be stowed and chocked as necessary to prevent movement unless mounted in a frame as a unit. Receptacles for liquefied gases shall be stowed such that the liquid phase is not in contact with any pressure relief device.

.2 When receptacles are stowed in a vertical position they shall be stowed in a block, cribbed or boxed in with suitable sound lumber and the box or crib dunnaged to provide clearance from a steel deck. Receptacles in a box or crib shall be braced to prevent any movement. The box or crib shall be securely chocked and lashed to prevent movement in any direction.

.3 When stowed on deck, receptacles shall be protected from radiant heat, which includes protection from strong sunlight.

.4 Receptacles stowed under deck shall be stowed in mechanically ventilated cargo spaces.

7.1.8.1.3 Adequate measures shall be taken to prevent the penetration of leaking gases into any other part of the ship. Gases may not necessarily be lighter than air and may sink to the lower levels of a cargo space where they may be accidentally ignited and "flashback" may occur. Attention shall also be paid in this respect when toxic or suffocating gas is transported.

7.1.8.1.4 Whenever gases are transported, stowage shall be such that leaking vapours are unlikely to penetrate the accommodation, machinery spaces and other work areas via entrances or other openings in bulkheads or through ventilation ducts.

7.1.8.1.5 Where gases are loaded in a closed cargo transport unit, special attention shall be paid to the provisions of 7.4.2.5.2.

7.1.8.2 General stowage precautions for flammable or toxic gases

.1 Adequate precautions shall be taken to protect flammable gases from heat. Mechanical ventilation shall be provided which shall effectively remove flammable vapours from enclosed cargo spaces.

.2 On ships carrying passengers, these gases shall be stowed well "away from" any deck or spaces provided for the use of passengers. When such gases are transported on board roll-on/roll-off ships, special attention shall be given to the relevant provisions of chapter 7.4.

7.1.9 Stowage of goods of class 3

7.1.9.1 The vapours from all substances of class 3 have a narcotic effect, and prolonged inhalation may result in unconsciousness. Deep or prolonged narcosis may lead to death.

7.1.9.2 Class 3 substances shall be stowed as indicated in the Dangerous Goods List. However, substances with a flashpoint of less than 23 °C c.c. ~~or less~~ packaged in jerricans, plastics (3H1, 3H2), drums, plastics (1H1,1H2) and plastics receptacles in a plastic drum (6HH1, 6HH2) shall be stowed *on deck only* unless packed in a closed cargo transport unit.

7.1.9.3 The substances of this class shall be kept as cool as reasonably practicable during transit. They should be stowed "away from" all possible sources of heat.

7.1.9.4 Adequate precautions shall be taken to protect the flammable liquids from heat emanating from bulkheads or other sources. Ventilation shall be provided which shall effectively remove flammable vapours from the cargo space.

7.1.9.5 Adequate measures shall be taken to prevent the penetration of leaking liquid or vapour into any other part of the ship. Vapours may not necessarily be lighter than air and may sink to the lower levels of a cargo space where they may be accidentally ignited and a "flashback" to the flammable liquids may occur.

7.1.9.6 Whenever flammable liquids with a flashpoint of less than 23 °C c.c. ~~or less~~ are transported in portable tanks, the stowage shall be such that leaking vapours are unlikely to penetrate the accommodation, machinery spaces and other work areas via entrances or other openings in bulkheads or through ventilation ducts.

7.1.9.7 Where it is deemed necessary for a substance of this class to be stowed "clear of living quarters", it is included in the Dangerous Goods List.

7.1.9.8 On ships carrying passengers, substances in this class shall be stowed well away from any deck or spaces provided for the use of passengers. When such substances are transported on board roll-on/roll-off ships, see chapter 7.4.

7.1.10 Stowage of goods of classes 4.1, 4.2 and 4.3

7.1.10.1 General stowage precautions for goods of classes 4.1, 4.2 and 4.3

7.1.10.1.1 The substances of these classes shall be kept as cool as reasonably practicable during transit. They should be stowed "away from" all sources of heat.

7.1.10.1.2 Provision shall be made, where a substance is liable to give off vapours or dust which can form an explosive mixture with air, for stowage to be in a well-ventilated space.

7.1.10.1.3 It may be necessary during the voyage to jettison a package or packages of a consignment of a substance in these classes if there is danger of involvement in a fire. This shall be borne in mind when stowage is permitted *under deck*.

7.1.10.1.4 On ships carrying passengers, substances of these classes shall be stowed well away from any deck or spaces provided for the use of passengers. When such substances are transported on board roll-on/roll-off ships, see chapter 7.4.

7.1.10.2 Additional stowage precautions for self-reactive substances, UN 2956, UN 3241, UN 3242, UN 3251 and solid desensitized explosives.

7.1.10.2.1 During transport, packages containing self-reactive substances, UN 2956, UN 3241, UN 3242, UN 3251 or solid desensitized explosives shall be shaded from radiant heat, which includes protection from direct sunlight.

7.1.10.3 Stowage precautions for fishmeal, unstabilized (UN 1374, packing group III) and Fishmeal, stabilized (UN 2216, class 9)

7.1.10.3.1 For loose packagings:

.1 Temperature readings shall be taken 3 times a day during the voyage and recorded.

.2 If the temperature of the cargo exceeds 55 °C and continues to increase, ventilation to the hold shall be restricted. If self-heating continues, then carbon dioxide or inert gas shall be introduced. The ship shall be equipped with facilities for introducing carbon dioxide or inert gas into the holds.

.3 The cargo shall be stowed well clear of pipes and bulkheads which are liable to become heated (such as engine-room bulkheads).

.4 For UN 1374, where loose bags are being carried, double strip stowage is recommended, provided there is good surface and through ventilation. The diagram in 7.1.10.3.3 shows how this can be achieved. For UN 2216, where loose bags are being carried, no special ventilation is required for block stowage of bagged cargo.

7.1.10.3.2 For containers:

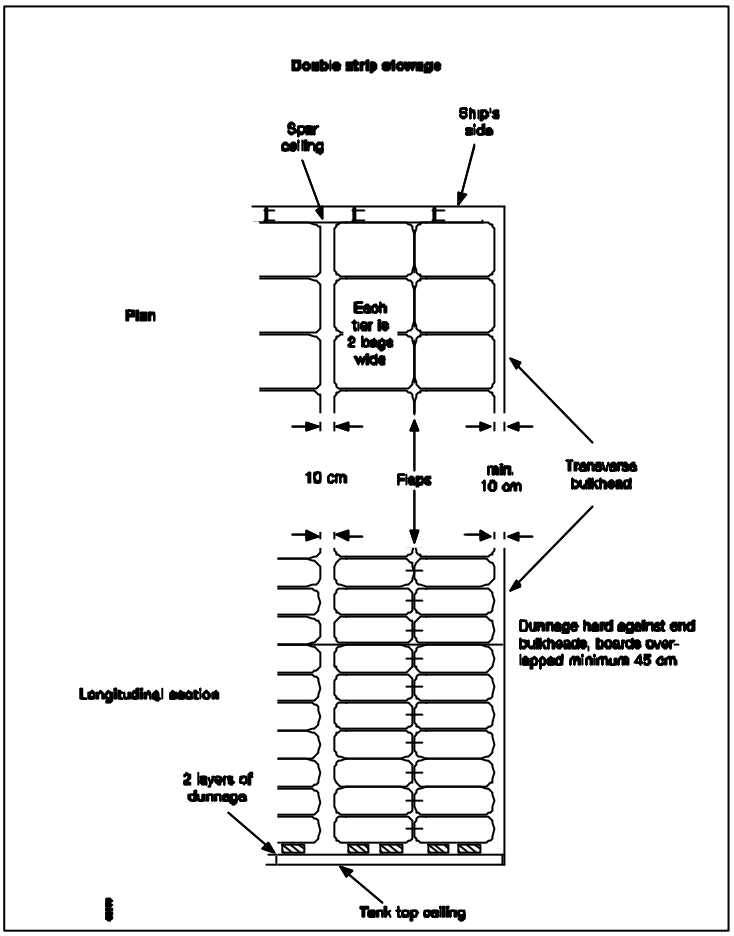
.1 After packing, the doors and other openings shall be sealed to prevent the penetration of air into the unit.

.2 Temperature readings in the hold shall be taken once a day early in the morning during the voyage and recorded.

.3 If the temperature of the hold rises excessively above ambient and continues to increase, the possible need to apply copious quantities of water in an emergency and the consequent risk to the stability of the ship shall be considered.

.4 The cargo shall be stowed well clear of pipes and bulkheads which are liable to become heated (such as engine-room bulkheads).

7.1.10.3.3



7.1.10.4. Stowage precautions for SEED CAKE (UN 1386)

7.1.10.4.1 Stowage precautions for SEED CAKE, containing vegetable oil (a) mechanically expelled seeds, containing more than 10% of oil or more than 20% of oil and moisture combined:

.1 through and surface ventilation is required;

.2 if the voyage exceeds 5 days, the ship shall be equipped with facilities for introducing carbon dioxide or inert gas into the cargo spaces;

.3 bags shall always be stowed in double strip, as shown in 7.1.10.3.3 of this Code for fishmeal, unstabilized; and

.4 regular temperature readings shall be taken at varying depths in the cargo space and recorded. If the temperature of the cargo exceeds 55 °C and continues to increase, ventilation to the cargo spaces shall be restricted. If self-heating continues, then carbon dioxide or inert gas shall be introduced.

7.1.10.4.2 Stowage precautions for SEED CAKE, containing vegetable oil (b) solvent extractions and expelled seeds containing not more than 10% of oil and, when the amount of moisture is higher than 10%, not more than 20% of oil and moisture combined:

.1 surface ventilation is required to assist in removing any residual solvent vapour;

.2 if bags are stowed without provision for ventilation to circulate throughout the stow and the voyage exceeds 5 days, regular temperature readings shall be taken at varying depths in the hold and recorded; and

.3 if the voyage exceeds 5 days, the vessel shall be equipped with facilities for introducing carbon dioxide or inert gas into the cargo spaces.

7.1.11 Stowage of goods of class 5.1

7.1.11.1 Except for cargo spaces for the stowage of cargo transport units, cargo spaces shall be cleaned before oxidizing substances are loaded into them. Attention shall be paid to the removal of all combustible materials which are not necessary for the stowage of such cargoes.

7.1.11.2 As far as reasonably practicable, non-combustible securing and protecting materials and only a minimum of clean dry wooden dunnage shall be used.

7.1.11.3 Precautions shall be taken to avoid the penetration of oxidizing substances into other cargo spaces, bilges, etc., which may contain combustible material.

7.1.11.4 After discharge, cargo spaces used for the transport of oxidizing substances shall be inspected for contamination. A space that has been contaminated shall be properly cleaned and examined before being used for other cargoes, especially foodstuffs.

7.1.11.5 Stowage precautions for AMMONIUM NITRATE, UN 1942 and AMMONIUM NITRATE BASED FERTILIZER, UN 2067

7.1.11.5.1 AMMONIUM NITRATE, UN 1942 and AMMONIUM NITRATE BASED FERTILIZERS, UN 2067 may be stowed under deck in a clean cargo space capable of being opened up in an emergency. The possible need to open hatches in case of fire to provide maximum ventilation and to apply water in an emergency and the consequent risk to the stability of the ship through flooding of cargo space shall be considered before loading.

7.1.11.5.2 The compatibility of non-hazardous ammonium nitrate mixtures with other materials which may be stowed in the same cargo space shall be considered before loading.

7.1.12 Stowage of goods of class 5.2

7.1.12.1 Organic peroxides shall be stowed in accordance with stowage category D, as specified in 7.1.1.2.

7.1.12.2 When organic peroxides are transported on roll-on/roll-off ships, see the relevant provisions of chapter 7.4.

7.1.12.3 Organic peroxides shall be stowed "away from" living quarters or access to them.

7.1.12.4 Organic peroxides shall be stowed "away from" all sources of heat. Packages containing organic peroxides shall be protected from direct sunshine and stowed in a cool, well-ventilated place.

7.1.12.5 When stowage arrangements are made, it shall be borne in mind that it may become necessary to take the appropriate emergency action, such as jettisoning.

7.1.13 Stowage of goods of class 6.1

7.1.13.1 General stowage precautions for goods of class 6.1

7.1.13.1.1 After discharge, spaces used for the transport of substances of this class shall be inspected for contamination. A space which has been contaminated shall be properly cleaned and examined before being used for other cargoes, especially foodstuffs.

7.1.13.2 Additional stowage precautions for toxic substances which are also flammable liquids

.1 On ships carrying passengers, these substances shall be stowed "away from" any deck or spaces provided for the use of passengers. When such substances are transported on board roll-on/roll-off ships, see the relevant provisions of chapter 7.4.

.2 These substances shall be stowed in a mechanically ventilated space and be kept as cool as reasonably practicable during transit. They should be stowed "away from" all sources of heat.

7.1.14 Stowage of goods of class 7

7.1.14.1 Radioactive material shall be stowed as indicated in the Dangerous Goods List for class 7 in 3.2, in accordance with the appropriate stowage category specified in 7.1.1.2.

7.1.14.2 The total activity in a single cargo space of an inland water craft, or in another conveyance, for transport of LSA material or SCO in Type IP-1, Type IP-2, Type IP-3 packaging or unpackaged shall not exceed the limits shown in the table hereunder.

Conveyance activity limits for LSA material and SCO in industrial packages or unpackaged

Nature of material	Activity limit for conveyances other than by inland waterway	Activity limit for a cargo space of an inland water craft
LSA-I	No limit	No limit
LSA-II and LSA-III non-combustible solids	No limit	$100A_2$
LSA-II and LSA-III combustible solids, and all liquids and gases	$100A_2$	$10A_2$
SCO	$100A_2$	$10A_2$

7.1.14.3 Consignments shall be securely stowed

7.1.14.4 Provided that its average surface heat flux does not exceed 15 W/m^2 and that the immediately surrounding cargo is not in sacks or bags, a package or overpack may be transported or stored among packaged general cargo without any special stowage provisions except as may be specifically required by the competent authority in an applicable approval certificate.

7.1.14.5 Loading of freight containers and accumulation of packages, overpacks and freight containers shall be controlled as follows:

.1 Except under the condition of exclusive use, the total number of packages, overpacks and freight containers aboard a single conveyance shall be so limited that the total sum of the transport indexes aboard the conveyance does not exceed the values shown in the table hereunder. For consignments of LSA-I material there shall be no limit on the sum of the transport indexes.

TI limits for freight containers and conveyances not under exclusive use

Type of freight container or conveyance	**Limit on total sum of transport indexes in a freight container or aboard a conveyance**
Freight container - small	50
Freight container - large	50
Vehicle	50
Aircraft	
Passenger	50
Cargo	200
Inland water-way vessel	50
Seagoing vessel[a]	
1 *Hold, compartment or defined area:*	
Packages, overpacks, small freight containers	50
Large freight containers	200
2 *Total vessel:*	
Packages, overpacks, small freight containers	200
Large freight containers	No limit

[a] Packages or overpacks transported in or on a vehicle which are in accordance with the provisions of 7.1.1.4.7 may be transported by vessels provided that they are not removed from the vehicle at any time while on board the ship.

.2 Where a consignment is transported under exclusive use, there shall be no limit on the sum of the transport indexes aboard a single conveyance.

.3 The radiation level under routine conditions of transport shall not exceed 2 mSv/h at any point on, and 0.1 mSv/h at 2 m from, the external surface of the conveyance, except for consignments transported under exclusive use by road or rail, for which the radiation limits around the vehicle are specified in 7.1.14.7.2 and 7.1.14.7.3.

.4 The total sum of the criticality safety indexes in a freight container and aboard a conveyance shall not exceed the values shown in the table hereunder.

CSI limits for freight containers and conveyances containing fissile material

Type of freight container or conveyance	Limit on total sum of criticality safety indexes in a freight container or aboard a conveyance	
	Not under exclusive use	Under exclusive use
Freight container - small	50	n.a.
Freight container - large	50	100
Vehicle	50	100
Aircraft		
Passenger	50	n.a.
Cargo	50	100
Inland water-way vessel	50	100
Seagoing vessel[a]		
1 *Cargo space or defined deck area:*		
Packages, overpacks, small freight containers	50	100
Large freight containers	50	100
2 *Total vessel:*		
Packages, overpacks, small freight containers	200[b]	200[c]
Large freight containers	No limit[b]	No limit[c]

[a] Packages or overpacks transported in or on a vehicle which are in accordance with the provisions of 7.1.14.7 may be transported by ships provided that they are not removed from the vehicle at any time while on board the ship. In that case, the entries under the heading "under exclusive use" apply.

[b] The consignment shall be so handled and stowed that the total sum of CSI's in any group does not exceed 50, and that each group is handled and stowed so that the groups are separated from each other by at least 6 m.

[c] The consignment shall be so handled and stowed that the total sum of CSI's in any group does not exceed 100, and that each group is handled and stowed so that the groups are separated from each other by at least 6 m. The intervening space between groups may be occupied by other cargo.

7.1.14.6 Any package or overpack having either a transport index greater than 10, or any consignment having a criticality safety index greater than 50, shall be transported only under exclusive use.

7.1.14.7 For consignments under exclusive use, the radiation level shall not exceed:

.1 10 mSv/h at any point on the external surface of any package or overpack, and may only exceed 2 mSv/h provided that:

.1 the vehicle is equipped with an enclosure which, during routine conditions of transport, prevents the access of unauthorized persons to the interior of the enclosure, and

.2 provisions are made to secure the package or overpack so that its position within the vehicle enclosure remains fixed during routine conditions of transport, and

.3 there is no loading or unloading during the shipment;

.2 2 mSv/h at any point on the outer surfaces of the vehicle, including the upper and lower surfaces, or, in the case of an open vehicle, at any point on the vertical planes projected from the outer edges of the vehicle, on the upper surface of the load, and on the lower external surface of the vehicle; and

.3 0.1 mSv/h at any point 2 m from the vertical planes represented by the outer lateral surfaces of the vehicle, or, if the load is transported in an open vehicle, at any point 2 m from the vertical planes projected from the outer edges of the vehicle.

7.1.14.8 In the case of road vehicles, no persons other than the driver and assistants shall be permitted in vehicles carrying packages, overpacks or freight containers bearing category II-YELLOW or III-YELLOW labels.

7.1.14.9 Packages or overpacks having a surface radiation level greater than 2 mSv/h, unless being transported in or on a vehicle under exclusive use in accordance with the table under 7.1.14.5, footnote (a), shall not be transported by ship except under special arrangement.

7.1.14.10 The transport of consignments by means of a special use ship which, by virtue of its design or by reason of its being chartered, is dedicated to the purpose of carrying radioactive material shall be excepted from the provisions specified in 7.1.14.5 provided that the following conditions are met:

.1 a radiation protection programme for the shipment shall be approved by the competent authority of the flag State of the ship and, when requested, by the competent authority at each port of call;

.2 stowage arrangements shall be predetermined for the whole voyage, including any consignments to be loaded at ports of call en route; and

.3 the loading, transport and unloading of the consignments shall be supervised by persons qualified in the transport of radioactive material.

7.1.14.11 Any conveyance and equipment used regularly for the transport of radioactive material shall be periodically checked to determine the level of contamination. The frequency of such checks shall be related to the likelihood of contamination and the extent to which radioactive material is transported.

7.1.14.12 Except as provided in 7.1.14.13, any conveyance, or equipment or part thereof, which has become contaminated above the limits specified in 4.1.9.1.2 in the course of the transport of radioactive material, or which shows a radiation level in excess of 5 µSv/h at the surface, shall be decontaminated as soon as possible by a qualified person and shall not be re-used unless the non-fixed contamination does not exceed the limits specified in 4.1.9.1.2, and the radiation level resulting from the fixed contamination on surfaces after decontamination is less than 5 µSv/h at the surface.

7.1.14.13 A freight container, tank, IBC or conveyance dedicated to the transport of unpackaged radioactive material under exclusive use shall be excepted from the provisions of 4.1.9.1.4 and 7.1.14.12 solely with regard to its internal surfaces and only for as long as it remains under that specific exclusive use.

7.1.14.14 Where a consignment is undeliverable, the consignment shall be placed in a safe location and the appropriate competent authority shall be informed as soon as possible and a request made for instructions on further action.

7.1.15 Stowage of goods of class 8

7.1.15.1 General stowage precautions for goods of class 8

7.1.15.1.1 The substances of this class shall be kept as dry as reasonably practicable, since in the presence of moisture they may be corrosive to most metal and some also react violently with water.

7.1.15.1.2 All substances of this class for which an unprotected plastics packaging is permitted shall be kept as cool as reasonably practicable as the resistance of most plastics decreases at higher temperatures.

7.1.15.2 Additional stowage precautions for corrosive substances which are also flammable liquids

7.1.15.2.1 On ships carrying passengers, these substances shall be stowed well "away from" any deck or spaces provided for the use of passengers. When such substances are transported on board roll-on/roll-off ships, special attention shall be given to the relevant provisions of chapter 7.4.

7.1.15.2.2 These substances shall be stowed in a mechanically ventilated space and be kept as cool as reasonably practicable during transit. They should be stowed "away from" all sources of heat.

7.1.16 Stowage of goods of class 9

7.1.16.1 Stowage precautions for AMMONIUM NITRATE BASED FERTILIZER, UN 2071

7.1.16.1.1 AMMONIUM NITRATE BASED FERTILIZER, UN 2071 shall be stowed in a clean cargo space capable of being opened up in an emergency. In the case of bagged fertilizer or fertilizer in containers, it is sufficient if, in the case of an emergency, the cargo is accessible through free approaches (hatch entries), and mechanical ventilation enables the master to exhaust any gases or fumes resulting from decomposition. The possible need to open hatches in case of fire to provide maximum ventilation and to apply water in an emergency, and the consequent risk to the stability of the ship through flooding of the cargo space, shall be considered before loading.

7.1.16.1.2 If suppression of decomposition should prove impracticable (such as in bad weather), there would not necessarily be immediate danger to the structure of the ship. However, the residue left after decomposition may have only half the mass of the original cargo; this loss of mass may also affect the stability of the ship and shall be considered before loading.

7.1.16.1.3 AMMONIUM NITRATE BASED FERTILIZER, UN 2071 shall be stowed out of direct contact with a metal engine-room bulkhead. (In the case of bagged material, this may be done, for example, by using wooden boards to provide an air space between the bulkhead and the cargo. This requirement need not apply to short international voyages.

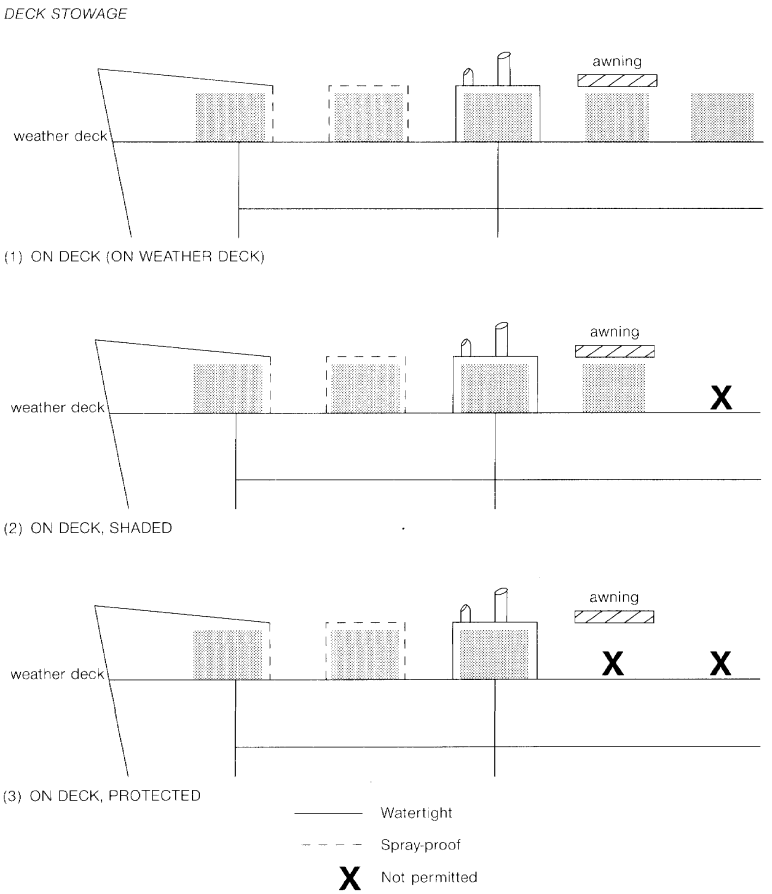
7.1.16.1.4 In the case of ships not fitted with smoke-detecting or other suitable devices, arrangements shall be made during the voyage to inspect cargo spaces containing these fertilizers at intervals not exceeding 4 hours (such as to sniff at the ventilators serving them) to ensure early detection of decomposition should that occur.

7.1.16.2 Stowage precautions for FISHMEAL, STABILIZED (UN 2216, class 9)

For stowage precautions for FISHMEAL, STABILIZED (UN 2216, class 9), see 7.1.10.3.

Appendix 1

Deck stowage



Appendix 2

Separation from machinery spaces

1 Paragraph 7.1.7.4.6.3 prescribes the degree of separation between goods of class 1 (other than those in division 1.4, compatibility group S) and a category "A" machinery space. The separation required is an "A-60" bulkhead and in addition a distance of at least 3 m from the bulkhead.

2 In a ship the keel of which was laid before 1 September 1984 and which is not provided with a separation bulkhead of class "A-60" standard, the following alternatives are acceptable:

.1 stowage at least 9 m away from an "A-0" bulkhead; or

.2 stowage at least 3 m away from one of the alternative constructional provisions specified in 3 below, combined with the additional safety measures given in 4.

3 Construction provisions

.1 two bulkheads of steel not less than 0.6 m apart forming a floodable cofferdam; or

.2 one watertight bulkhead of steel and one temporary bulkhead positioned not less than 0.6 m away from the former, suitably constructed of timber and faced on the engine-room side with an approved fire insulation material of the type and thickness which would be applied to a division of "A-30" standard.

4 Additional safety measures

.1 a fixed fire-detection and fire-alarm system and a fixed fire-extinguishing installation meeting the standards of SOLAS 1974, as amended, shall be fitted to the main machinery space, but a temporary system of at least equivalent capacity may be accepted;

.2 a power-operated pump which, together with its source of power and permanent sea connections, shall be located outside the machinery space; and

.3 at least two sets of self-contained breathing apparatus are available for fire fighting.

Appendix 3

Electrical standards

(See paragraph 7.1.7.4.7 of this chapter)

	Risk involved	Requirement for electrical equipment, including junction boxes and vent fans*
1	Explosive dust only	Equipment to have enclosure IP6X and temperature class T5.
2	Flammable vapour only	Equipment to be Ex i(b) IIAT5 or Ex d IIAT5: luminaries only may be Ex e IIT5.
3	Explosive dust and flammable vapour	Equipment to be Ex i(b) IIAT5 with IP6X enclosures or Ex d IIAT5 with IP6X enclosures. Luminaries may only be Ex e IIT5 with IP6X enclosures.

In all the above cases, cables shall be:

.1 enclosed in heavy gauge, solid-drawn or continuously butt-welded and galvanized conduit; or

.2 protected by electrically continuous metal sheathing or metallic wire armour, braid or tape; or

.3 of the mineral-insulated metal-covered type.

* Reference is made to the Recommendations published by the International Electrotechnical Commission (IEC) and, in particular, to publication 529 - Classification of Degrees of Protection Provided by Enclosures.

Chapter 7.2

Segregation

7.2.1 General

7.2.1.1 The provisions of this chapter shall apply to all cargo spaces *on deck or under deck* of all types of ships and to cargo transport units.

7.2.1.2 Incompatible goods shall be segregated from one another.

7.2.1.3 For the implementation of this requirement, two substances or articles are considered mutually incompatible when their stowage together may result in undue hazards in case of leakage or spillage, or any other accident.

7.2.1.4 The extent of the hazard arising from possible reactions between incompatible dangerous goods may vary and so the segregation arrangements required may also vary as appropriate. Such segregation is obtained by maintaining certain distances between incompatible dangerous goods or by requiring the presence of one or more steel bulkheads or decks between them, or a combination thereof. Intervening spaces between such dangerous goods may be filled with other cargo compatible with the dangerous substances or articles in question.

7.2.1.5 The following segregation terms are used throughout this Code:

.1 "Away from";

.2 "Separated from";

.3 "Separated by a complete compartment or hold from";

.4 "Separated longitudinally by an intervening complete compartment or hold from".

These terms are defined in 7.2.2 and their use in regard to the different modes of sea transport is explained further in the other subsections of this chapter.

7.2.1.6 The general provisions for segregation between the various classes of dangerous goods are shown in the "segregation table" of 7.2.1.16. In addition to the general provisions, there may be a need to segregate a particular substance, material or article from other goods which could contribute to its hazard. Particular provisions for segregation are indicated in the Dangerous Goods List and, in the case of conflicting provisions, always take precedence over the general provisions.

For example:

In the Dangerous Goods List entry for ACETYLENE, DISSOLVED, class 2.1, UN 1001, the following particular segregation requirement is specified:

"separated from" chlorine

In the Dangerous Goods List entry for BARIUM CYANIDE, class 6.1, UN 1565, the following particular segregation is specified:

"separated from" acids

7.2.1.6.1 Where the Code indicates a single secondary hazard (one subsidiary risk label), the segregation provisions applicable to that hazard shall take precedence where they are more stringent than those of the primary hazard.

7.2.1.6.2 Except for class 1, the segregation provisions for substances, materials or articles having more than two hazards (2 or more subsidiary risk labels) are given in the Dangerous Goods List.

For example:

In the Dangerous Goods List entry for BROMINE CHLORIDE, class 2.3, UN 2901, subsidiary risks 5.1 and 8, the following particular segregation is specified:

"segregation as for class 5.1 but "separated from" class 7".

7.2.1.7 Segregation groups

7.2.1.7.1 For the purpose of segregation, dangerous goods having certain similar chemical properties have been grouped together in segregation groups as listed in 7.2.1.7.2. The entries allocated to these segregation groups are listed in 3.1.4.4. Where in the Dangerous Goods List entry in column 16 (stowage and segregation) a particular segregation requirement refers to a group of substances, such as "acids", the particular segregation requirement applies to the goods allocated to the respective segregation group.

7.2.1.7.2 Segregation groups referred to in the Dangerous Goods List:

.1 acids
.2 ammonium compounds
.3 bromates
.4 chlorates
.5 chlorites
.6 cyanides
.7 heavy metals and their salts (including their organometallic compounds)
.8 hypochlorites
.9 lead and its compounds
.10 liquid halogenated hydrocarbons
.11 mercury and mercury compounds
.12 nitrites and their mixtures
.13 perchlorates
.14 permanganates
.15 powdered metals
.16 peroxides
.17 azides
.18 alkalis

7.2.1.7.3 It is recognized that not all substances falling within a segregation group are listed in this Code by name. These substances are shipped under N.O.S. entries. Although these N.O.S. entries are not listed themselves in the above groups, the shipper shall decide whether allocation under

the segregation group is appropriate. Mixtures, solutions or preparations containing substances falling within a segregation group and shipped under an N.O.S. entry are also considered to fall within that segregation group.

7.2.1.7.4 The segregation groups in this Code do not cover substances which fall outside the classification criteria of this Code. It is recognized that some non-hazardous substances have similar chemical properties as substances listed in the segregation groups. A shipper or the person responsible for packing the goods into a cargo transport unit who does have knowledge of the chemical properties of such non-dangerous goods may decide to implement the segregation requirements of a related segregation group on a voluntary basis.

7.2.1.8 In the case of segregation from combustible material, this shall be understood not to include packaging materials or dunnage.

7.2.1.9 Whenever dangerous goods are stowed together, whether or not in a cargo transport unit, the segregation of such dangerous goods from others shall always be in accordance with the most stringent provisions for any of the dangerous goods concerned.

7.2.1.10 For the purposes of 7.2.1.6.1, the segregation provisions corresponding to a subsidiary risk label of class 1 are those for class 1, division 1.3.

7.2.1.11 Notwithstanding 7.2.1.6.1, 7.2.1.6.2 and 7.2.1.13, substances of the same class may be stowed together without regard to segregation required by secondary hazards (subsidiary risk label(s)), provided the substances do not react dangerously with each other and cause:

.1 combustion and/or evolution of considerable heat;

.2 evolution of flammable, toxic or asphyxiant gases;

.3 the formation of corrosive substances; or

.4 the formation of unstable substances.

7.2.1.12 Where the Dangerous Goods List specifies that "segregation as for class ....." applies, the segregation provisions applicable to that class in 7.2.1.16 shall be applied. However, for the purposes of interpreting 7.2.1.11, which permits substances of the same class to be stowed together provided they do not react dangerously with each other, the segregation provisions of the class as represented by the primary hazard class in the Dangerous Goods List shall be applied.

For example:

UN 2965 - BORON TRIFLUORIDE DIMETHYL ETHERATE, class 4.3

The Dangerous Goods List entry specifies "segregation as for class 3, but "away from" classes 3, 4.1 and 8".

For the purposes of establishing the segregation provisions applicable in 7.2.1.16, the class 3 column shall be consulted.

This substance may be stowed together with other class 4.3 substances where they do not react dangerously with each other, see 7.2.1.11.

7.2.1.13 Special provisions for segregation

7.2.1.13.1 No segregation needs to be applied

.1 between dangerous goods of different classes which comprise the same substance but vary only in their water content, such as sodium sulphide in classes 4.2 and 8 or for class 7 if the difference is due to quantity only;

.2 between dangerous goods which belong to a group of substances of different classes but for which scientific evidence exists that they do not react dangerously when in contact with each other. Substances within the same table shown below are compatible with one another.

Table 1

UN	Proper Shipping Name	Class	Subsidiary risk(s)	Packing group
2014	HYDROGEN PEROXIDE, AQUEOUS SOLUTION with not less than 20% but not more than 60% hydrogen peroxide (stabilized as necessary)	5.1	8	II
2984	HYDROGEN PEROXIDE, AQUEOUS SOLUTION with not less than 8% but less than 20% hydrogen peroxide (stabilized as necessary)	5.1		III
3105	ORGANIC PEROXIDE TYPE D, LIQUID (peroxyacetic acid, type D, stabilized)	5.2	8	
3107	ORGANIC PEROXIDE TYPE E, LIQUID (peroxyacetic acid, type E, stabilized)	5.2	8	
3109	ORGANIC PEROXIDE TYPE F, LIQUID (peroxyacetic acid, type F, stabilized)	5.2	8	
3149	HYDROGEN PEROXIDE AND PEROXYACETIC ACID, MIXTURE with acid(s), water and not more than 5% peroxyacetic acid, STABILIZED	5.1	8	II

Table 2

UN	Proper Shipping Name	Class	Subsidiary risk(s)	Packing group
1295	TRICHLOROSILANE	4.3	3/8	I
1818	SILICON TETRACHLORIDE	8	-	II
2189	DICHLOROSILANE	2.3	2.1/8	-

7.2.1.13.2 Notwithstanding the provisions of 7.2.1.7.1 to 7.2.1.7.4, substances of class 8, packing group II or III, that would otherwise be required to be segregated from one another due to the provisions pertaining to segregation groups as identified by an entry in column (16) of the dangerous goods list indicating "Away from" or "Separated from" "acids" or "Away from" or "Separated from" "alkalis", may be transported in the same cargo transport unit, whether in the same packaging or not, provided:

.1 the substances comply with the provisions of 7.2.1.11;

.2 the package does not contain more than 30 litres for liquids or 30 kg for solids;

.3 the transport document includes the statement required by 5.4.1.5.11.3; and

.4 a copy of the test report that verifies that the substances do not react dangerously with each other shall be provided if requested by the competent authority.

7.2.1.14 Where, for the purposes of segregation, terms such as "away from class ..." are used in the Dangerous Goods List, "class ..." is deemed to include:

.1 all substances within "class ..."; and

.2 all substances for which a subsidiary risk label of "class ..." is required.

7.2.1.15 Stowage in a shelter-'tween-deck-cargo space is not considered to be *on deck* stowage.

7.2.1.16 Segregation table

The following table shows the general provisions for segregation between the various classes of dangerous goods.

SINCE THE PROPERTIES OF SUBSTANCES, MATERIALS OR ARTICLES WITHIN EACH CLASS MAY VARY GREATLY, THE DANGEROUS GOODS LIST SHALL ALWAYS BE CONSULTED FOR PARTICULAR PROVISIONS FOR SEGREGATION AS, IN THE CASE OF CONFLICTING PROVISIONS, THESE TAKE PRECEDENCE OVER THE GENERAL PROVISIONS.

SEGREGATION SHALL ALSO TAKE ACCOUNT OF A SINGLE SUBSIDIARY RISK LABEL.

CLASS		1.1 1.2 1.5	1.3 1.6	1.4	2.1	2.2	2.3	3	4.1	4.2	4.3	5.1	5.2	6.1	6.2	7	8	9
Explosives	**1.1, 1.2, 1.5**	*	*	*	4	2	2	4	4	4	4	4	4	2	4	2	4	X
Explosives	**1.3, 1.6**	*	*	*	4	2	2	4	3	3	4	4	4	2	4	2	2	X
Explosives	**1.4**	*	*	*	2	1	1	2	2	2	2	2	2	X	4	2	2	X
Flammable gases	**2.1**	4	4	2	X	X	X	2	1	2	X	2	2	X	4	2	1	X
Non-toxic, non-flammable gases	**2.2**	2	2	1	X	X	X	1	X	1	X	X	1	X	2	1	X	X
Toxic gases	**2.3**	2	2	1	X	X	X	2	X	2	X	X	2	X	2	1	X	X
Flammable liquids	**3**	4	4	2	2	1	2	X	X	2	1	2	2	X	3	2	X	X
Flammable solids (including self-reactive substances and solid desensitized explosives)	**4.1**	4	3	2	1	X	X	X	X	1	X	1	2	X	3	2	1	X
Substances liable to spontaneous combustion	**4.2**	4	3	2	2	1	2	2	1	X	1	2	2	1	3	2	1	X

CLASS		1.1 1.2 1.5	1.3 1.6	1.4	2.1	2.2	2.3	3	4.1	4.2	4.3	5.1	5.2	6.1	6.2	7	8	9
Substances which, in contact with water, emit flammable gases	**4.3**	4	4	2	X	X	X	1	X	1	X	2	2	X	2	2	1	X
Oxidizing substances (agents)	**5.1**	4	4	2	2	X	X	2	1	2	2	X	2	1	3	1	2	X
Organic peroxides	**5.2**	4	4	2	2	1	2	2	2	2	2	2	X	1	3	2	2	X
Toxic substances	**6.1**	2	2	X	X	X	X	X	X	1	X	1	1	X	1	X	X	X
Infectious substances	**6.2**	4	4	4	4	2	2	3	3	3	2	3	3	1	X	3	3	X
Radioactive material	**7**	2	2	2	2	1	1	2	2	2	2	1	2	X	3	X	2	X
Corrosive substances	**8**	4	2	2	1	X	X	X	1	1	1	2	2	X	3	2	X	X
Miscellaneous dangerous substances and articles	**9**	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Numbers and symbols relate to the following terms as defined in this chapter:
1 - "Away from"
2 - "Separated from"
3 - "Separated by a complete compartment or hold from"
4 - "Separated longitudinally by an intervening complete compartment or hold from"
X - The segregation, if any, is shown in the Dangerous Goods List
* - See 7.2.7.2 of this chapter.

7.2.1.17 For the purposes of the segregation provisions for the various means of transport by sea, this chapter has been subdivided as follows:

.1 segregation of packages: 7.2.2;

.2 segregation of cargo transport units on board container ships: 7.2.3;

.3 segregation of cargo transport units on board roll-on/roll-off ships: 7.2.4;

.4 segregation in shipborne barges and on board barge-carrying ships: 7.2.5;

.5 segregation between bulk materials possessing chemical hazards and dangerous goods in packaged form: 7.2.6

7.2.2 Segregation of packages

7.2.2.1 Applicability

7.2.2.1.1 The provisions of this subsection apply to the segregation of:

.1 packages containing dangerous goods and stowed in the conventional way;

.2 dangerous goods within cargo transport units; and

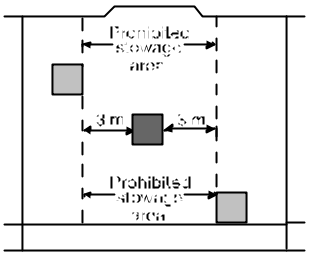
.3 dangerous goods stowed in the conventional way from those packed in such cargo transport units.

7.2.2.2 Segregation of packages containing dangerous goods and stowed in the conventional way

7.2.2.2.1 ***Definitions of the segregation terms***

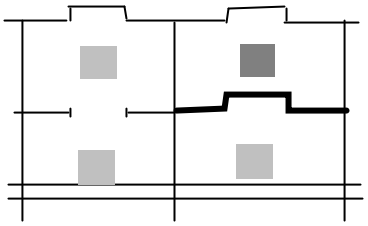
.1 *Away from:*

Effectively segregated so that the incompatible goods cannot interact dangerously in the event of an accident but may be transported in the same compartment or hold or *on deck*, provided a minimum horizontal separation of **3 metres, projected vertically is obtained**



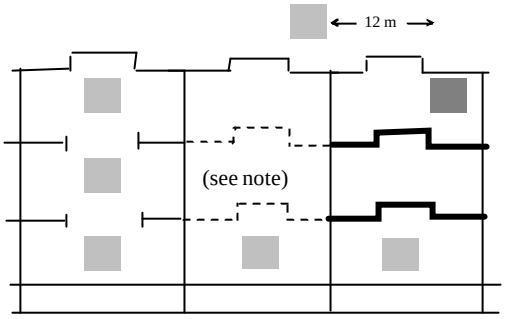
.2 *Separated from:*

In different compartments or holds when stowed *under deck*. Provided the intervening deck is resistant to fire and liquid, a vertical separation, i.e. in different compartments, may be accepted as equivalent to this segregation. For *on deck* stowage, this segregation means a separation by a distance of **at least 6 metres horizontally**.



.3 *Separated by a complete compartment or hold from:*

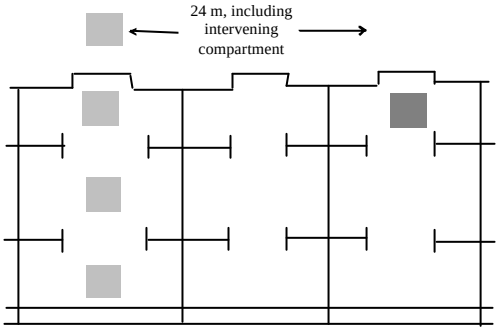
Either a vertical or a horizontal separation. If the intervening decks are not resistant to fire and liquid, then only a longitudinal separation, i.e. by an intervening complete compartment or hold, is acceptable. For *on deck* stowage, this segregation means a separation by a distance of **at least 12 metres horizontally**. The same distance has to be applied if one package is stowed *on deck*, and the other one in an upper compartment.



Note: One of the two decks must be resistant to fire and to liquid

.4 *Separated longitudinally by an intervening complete compartment or hold from:*

Vertical separation alone does not meet this requirement. Between a package *under deck* and one *on deck*, a minimum distance of 24 m, including a complete compartment, must be maintained longitudinally. For *on deck* stowage, this segregation means a separation by a distance of **at least 24 metres longitudinally**.

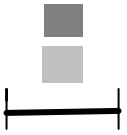


Legend

(1) Reference *package*.....

(2) *Package* containing incompatible goods.....

(3) Deck resistant to fire and liquid.....



Note: Full vertical lines represent transverse bulkheads between cargo spaces (compartments or holds) resistant to fire and liquid.

7.2.2.3 Segregation in cargo transport units

Dangerous goods which have to be segregated from each other shall not be transported in the same cargo transport unit with the exception of dangerous goods which shall be segregated "away from" each other which may be transported in the same cargo transport unit with the approval of the competent authority. In such cases an equivalent standard of safety shall be maintained.

7.2.2.4 Segregation of dangerous goods stowed in the conventional way from those transported in cargo transport units

7.2.2.4.1 Dangerous goods stowed in the conventional way shall be segregated from goods transported in open cargo transport units in accordance with 7.2.2.2.

7.2.2.4.2 Dangerous goods stowed in the conventional way shall be segregated from goods transported in closed cargo transport units in accordance with 7.2.2.2 except that:

.1 where "away from" is required, no segregation between the packages and the closed cargo transport units is required; and

.2 where "separated from" is required, the segregation between the packages and the closed cargo transport units may be as for "away from" as defined in 7.2.2.2.1.1.

7.2.3 Segregation of cargo transport units on board container ships

7.2.3.1 Applicability and definitions

7.2.3.1.1 The provisions of this subsection apply to the segregation of cargo transport units which are transported on board full container ships or on decks, or in holds and compartments of other types of ships provided that these cargo spaces are properly fitted to give a permanent stowage of the containers during transport (see 7.2.3.2). For the open holds of hatchless container ships, see table 7.2.3.3.

7.2.3.1.2 *Container space* means a distance of not less than 6 m fore and aft or not less than 2.4 m athwartships.

7.2.3.1.3 For ships which incorporate conventional cargo spaces or any other method of stowage, the appropriate subsection of this chapter shall apply to the relevant cargo space.

7.2.3.2 Table of segregation of freight containers on board container ships

SEGREGATION REQUIREMENT	VERTICAL				HORIZONTAL						
	CLOSED VERSUS CLOSED	CLOSED VERSUS OPEN	OPEN VERSUS OPEN		CLOSED VERSUS CLOSED		CLOSED VERSUS OPEN		OPEN VERSUS OPEN	
					ON DECK	UNDER DECK	ON DECK	UNDER DECK	ON DECK	UNDER DECK
"AWAY FROM" .1	ONE ON TOP OF THE OTHER PERMITTED	OPEN ON TOP OF CLOSED PERMITTED OTHERWISE AS FOR "OPEN VERSUS OPEN"	*NOT* IN THE SAME VERTICAL LINE *UNLESS* SEGREGATED BY A DECK	FORE AND AFT	NO RESTRICTION	NO RESTRICTION	NO RESTRICTION	NO RESTRICTION	*ONE* CONTAINER SPACE	*ONE* CONTAINER SPACE OR *ONE* BULKHEAD
				ATHWART-SHIPS	NO RESTRICTION	NO RESTRICTION	NO RESTRICTION	NO RESTRICTION	*ONE* CONTAINER SPACE	*ONE* CONTAINER SPACE
"SEPARATED FROM" .2	*NOT* IN THE SAME VERTICAL LINE *UNLESS* SEGREGATED BY A DECK	AS FOR "OPEN VERSUS OPEN"		FORE AND AFT	*ONE* CONTAINER SPACE	*ONE* CONTAINER SPACE OR *ONE* BULKHEAD	*ONE* CONTAINER SPACE	*ONE* CONTAINER SPACE OR *ONE* BULKHEAD	*ONE* CONTAINER SPACE	*ONE* BULKHEAD
				ATHWART-SHIPS	*ONE* CONTAINER SPACE	*ONE* CONTAINER SPACE	*ONE* CONTAINER SPACE	*TWO* CONTAINER SPACES	*TWO* CONTAINER SPACES	*ONE* BULKHEAD
"SEPARATED BY A COMPLETE COMPARTMENT OR HOLD FROM" .3				FORE AND AFT	*ONE* CONTAINER SPACE	*ONE* BULKHEAD	*ONE* CONTAINER SPACE	*ONE* BULKHEAD	*TWO* CONTAINER SPACES	*TWO* BULKHEADS
				ATHWART-SHIPS	*TWO* CONTAINER SPACES	*ONE* BULKHEAD	*TWO* CONTAINER SPACES	*ONE* BULKHEAD	*THREE* CONTAINER SPACES	*TWO* BULKHEADS
"SEPARATED LONGITUDINALLY BY AN INTERVENING COMPLETE COMPARTMENT OR HOLD FROM" .4	PROHIBITED			FORE AND AFT	MINIMUM HORIZONTAL DISTANCE OF 24 M	*ONE* BULKHEAD *AND* MINIMUM HORIZONTAL DISTANCE OF 24 M*	MINIMUM HORIZONTAL DISTANCE OF 24 M	*TWO* BULKHEADS	MINIMUM HORIZONTAL DISTANCE OF 24 M	*TWO* BULKHEADS
				ATHWART-SHIPS	PROHIBITED	PROHIBITED	PROHIBITED	PROHIBITED	PROHIBITED	PROHIBITED

***** CONTAINERS NOT LESS THAN 6 M FROM INTERVENING BULKHEAD.

NOTE: ALL BULKHEADS AND DECKS SHALL BE RESISTANT TO FIRE AND LIQUID.

7.2.3.2.1 *Illustrations of segregation of cargo transport units on board container ships*

7.2.3.2.1.1 The illustrations of this subsection apply to the segregation of cargo transport units which are transported on board full container ships or on decks, or in holds and compartments of other type of ships provided that these cargo spaces are properly fitted to give permanent stowage of the cargo transport units during transport*.

7.2.3.2.1.2 To determine locations in which cargo transport units are not permitted to contain dangerous goods that are incompatible with those in a reference cargo transport unit, the following method shall be used: container spaces (such as one container space, two container spaces) are identified in accordance with the applicable segregation provisions in the direct fore-and-aft and athwartships directions from the reference cargo transport unit. Lines are projected between the outermost corners of the cargo transport units occupying these spaces as shown in the figure. Cargo transport units located partially or completely between these lines and the reference cargo transport unit shall not contain dangerous goods that are incompatible with those in the reference cargo transport unit.

7.2.3.2.1.3 The deck/hold lay-out used for the illustrations is:

- two 20' containers stowed in a 40' container space
- distance between two 40' container spaces is 2 ft/60 cm

* For container ships with partly hatchless container cargo spaces, the illustrations of 7.2.3.3.1 apply to such spaces

7.2.3.2.1.4 *Definitions of the segregation terms*

(1) Reference cargo transport unit (CTU) .....

(2) CTU containing incompatible goods NOT permitted .....

(3) CTU containing incompatible goods permitted .....

(4) Distance athwarthships (a) two container spaces .....

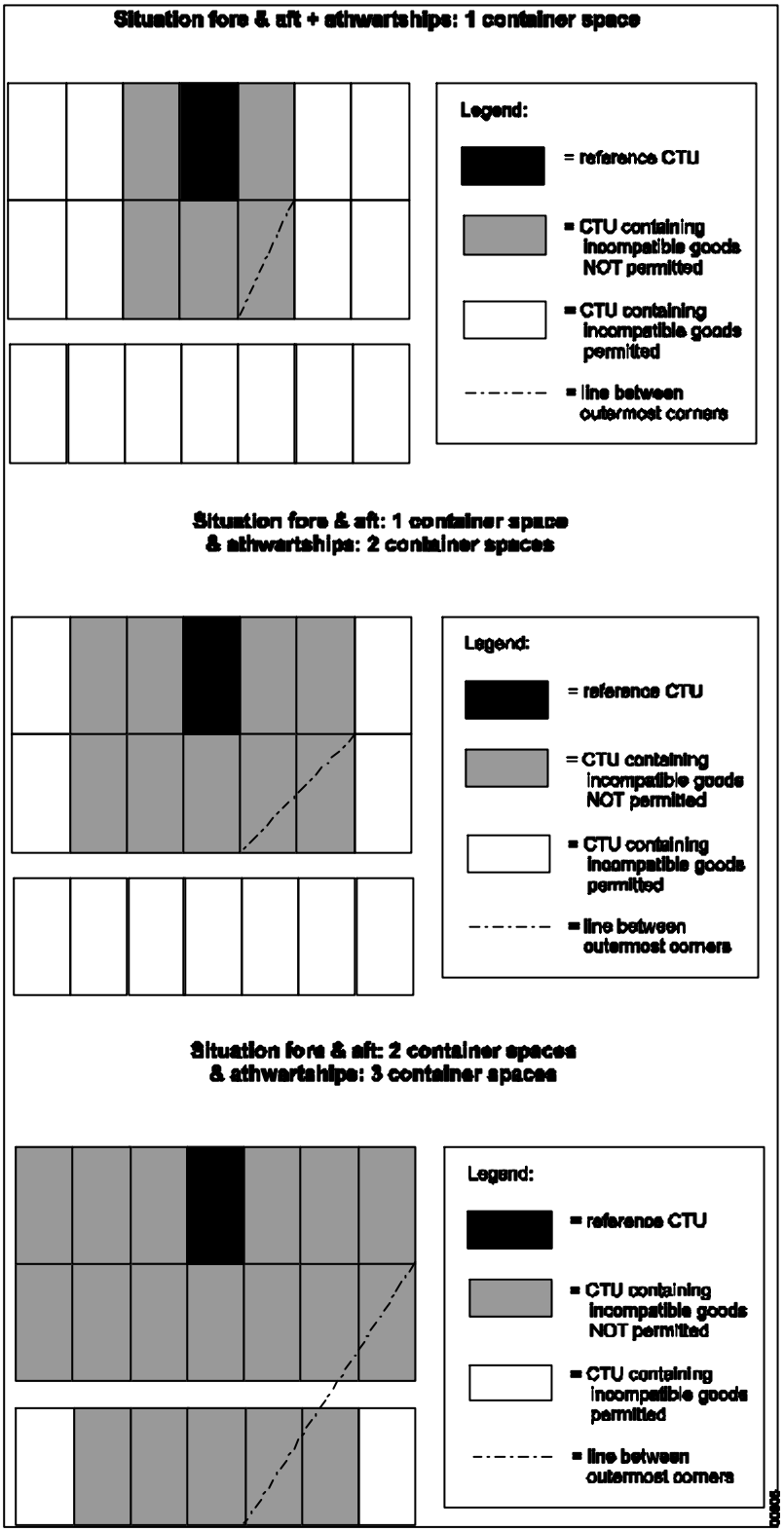
(b) two container space.....

(c) Three container spaces .....

(5) Distance Fore and Aft: (a) one container space.....

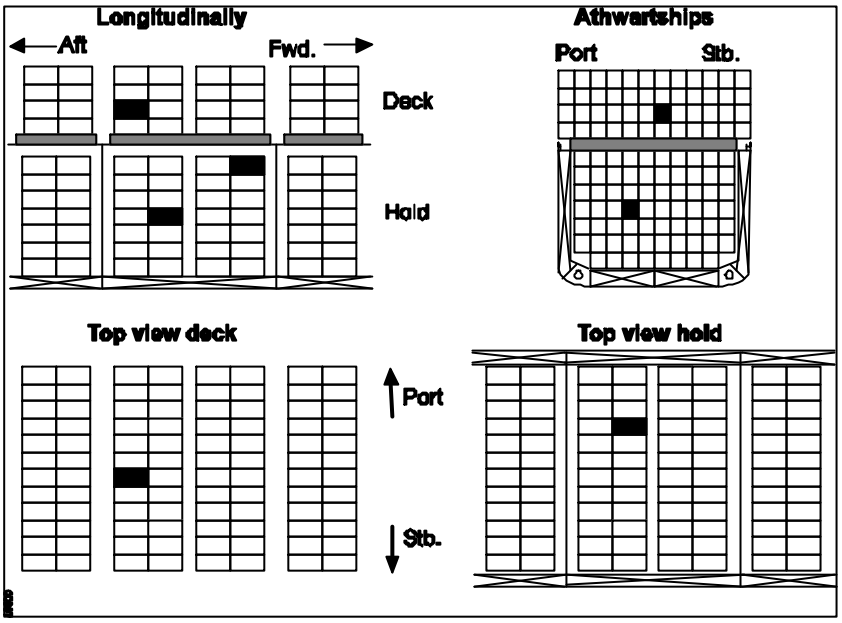
(b) two container spaces .....

Note: All bulkheads and decks shall be resistant to fire and liquids.



Note: All bulkheads and decks shall be resistant to fire and liquids.

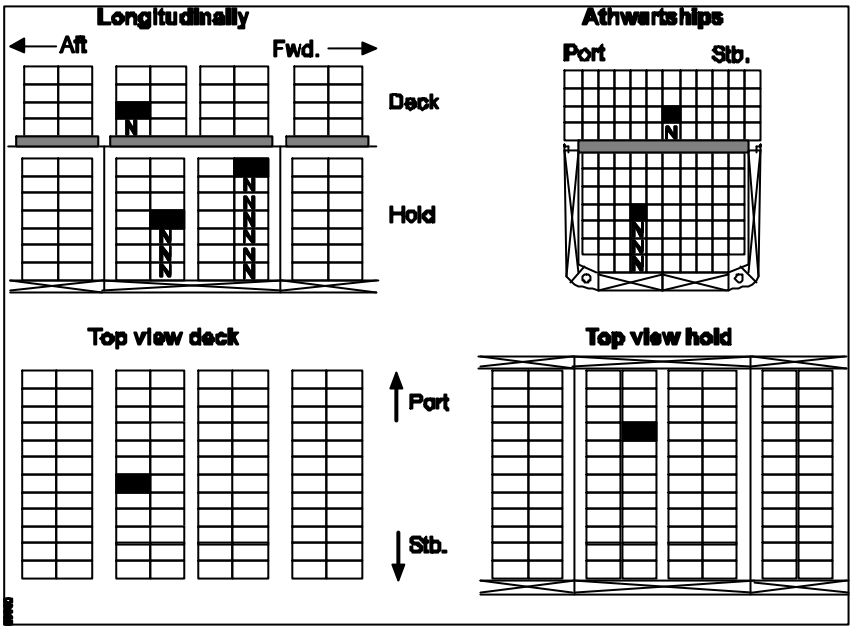
CLOSED VERSUS CLOSED	HORIZONTAL		VERTICAL
	ON DECK	UNDER DECK	
FORE AND AFT	No Restriction	No Restriction	One on top of the other permitted
ATHWARTSHIPS	No Restriction	No Restriction	



1 - Situation *closed* versus *closed*

Note: All bulkheads and decks shall be resistant to fire and liquids.

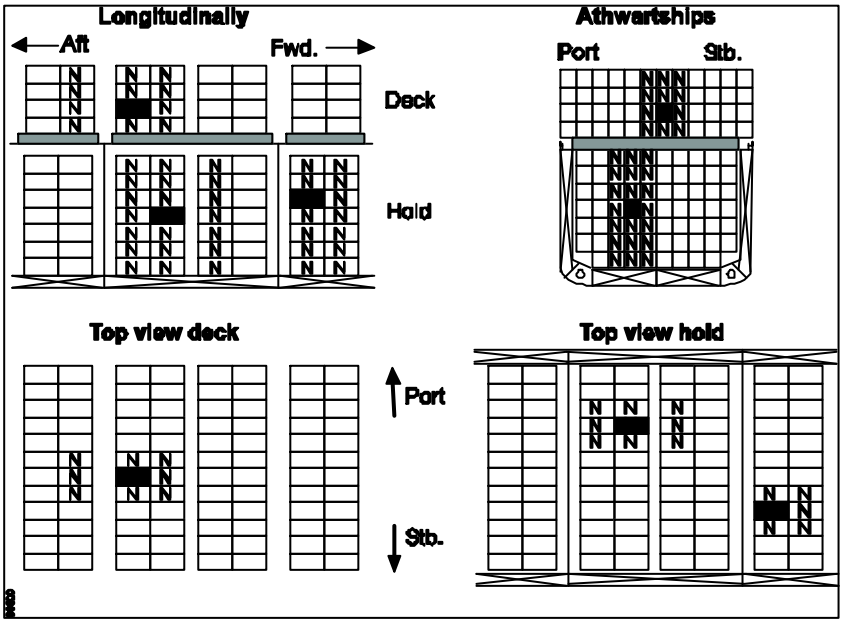
"AWAY FROM" .1			
CLOSED VERSUS OPEN	HORIZONTAL		VERTICAL
	ON DECK	UNDER DECK	
FORE AND AFT	No Restriction	No Restriction	Open on top of closed permitted
ATHWARTSHIPS	No Restriction	No Restriction	Otherwise NOT in the same vertical line unless segregated by a deck



1 - Situation *closed* versus *open*

Note: All bulkheads and decks shall be resistant to fire and liquids.

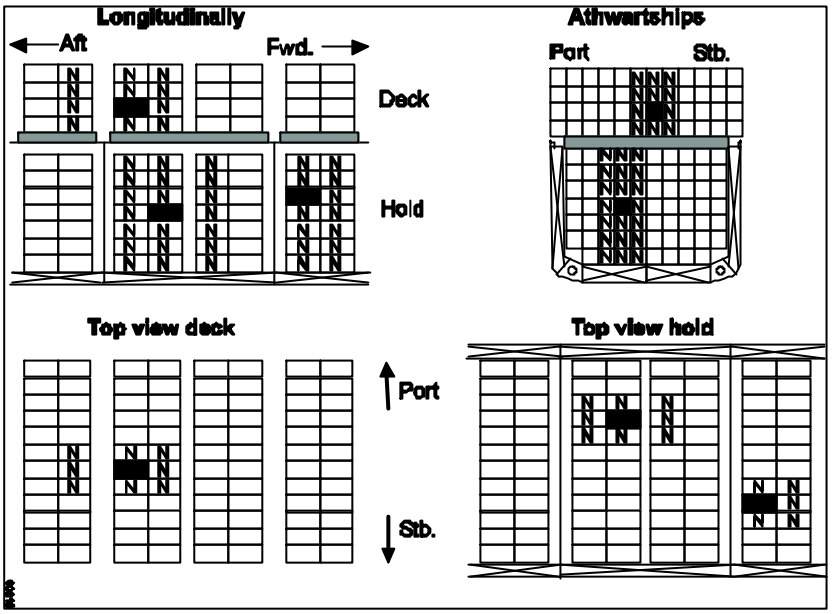
"AWAY FROM" .1			
OPEN VERSUS OPEN	**HORIZONTAL**		**VERTICAL**
	ON DECK	**UNDER DECK**	
FORE AND AFT	One container space	One container space or one bulkhead	NOT in the same vertical line unless segregated by a deck
ATHWARTSHIPS	One container space	One container space	



1 - Situation *open* versus *open*

Note: All bulkheads and decks shall be resistant to fire and liquids.

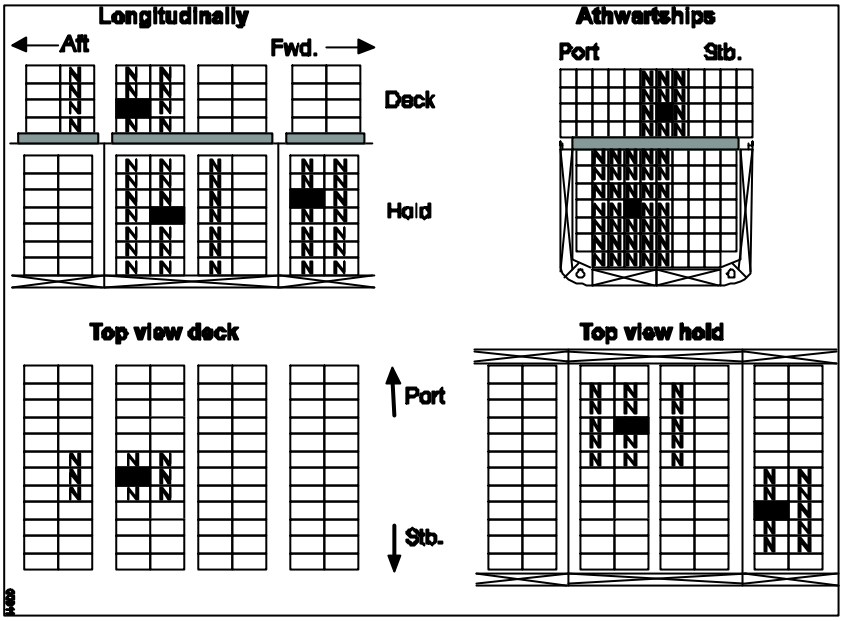
"SEPARATED FROM" .2			
CLOSED VERSUS CLOSED	**HORIZONTAL**		**VERTICAL**
	ON DECK	**UNDER DECK**	
FORE AND AFT	One container space	One container space or one bulkhead	NOT in the same vertical line unless segregated by a deck
ATHWARTSHIPS	One container space	One container space	



2 - Situation *closed* versus *closed*

Note: All bulkheads and decks shall be resistant to fire and liquids.

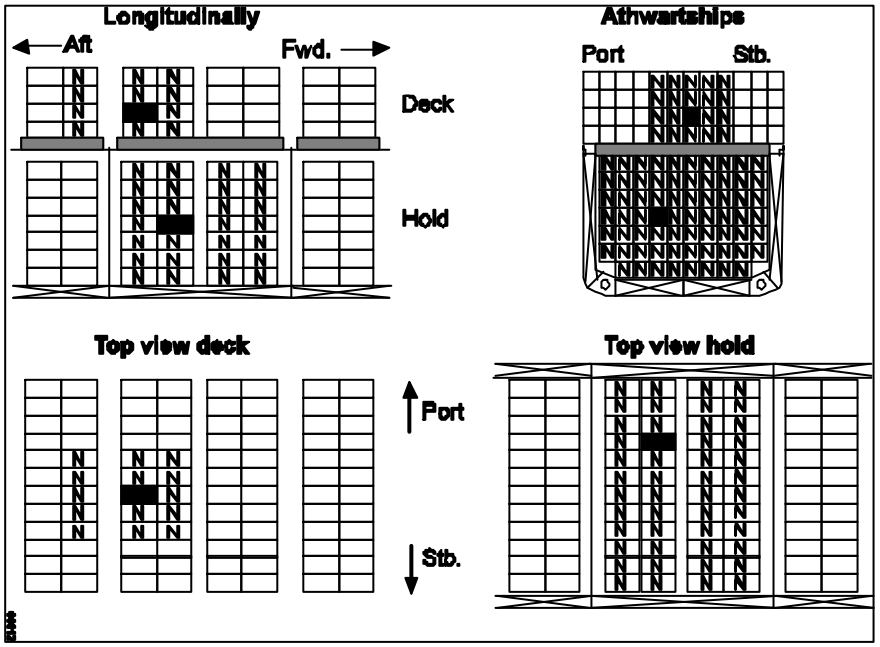
"SEPARATED FROM" .2			
CLOSED VERSUS OPEN	**HORIZONTAL**		**VERTICAL**
	ON DECK	**UNDER DECK**	
FORE AND AFT	One container space	One container space or one bulkhead	NOT in the same vertical line unless segregated by a deck
ATHWARTSHIPS	One container space	Two container spaces	



2 - Situation *closed* versus *open*

Note: All bulkheads and decks shall be resistant to fire and liquids.

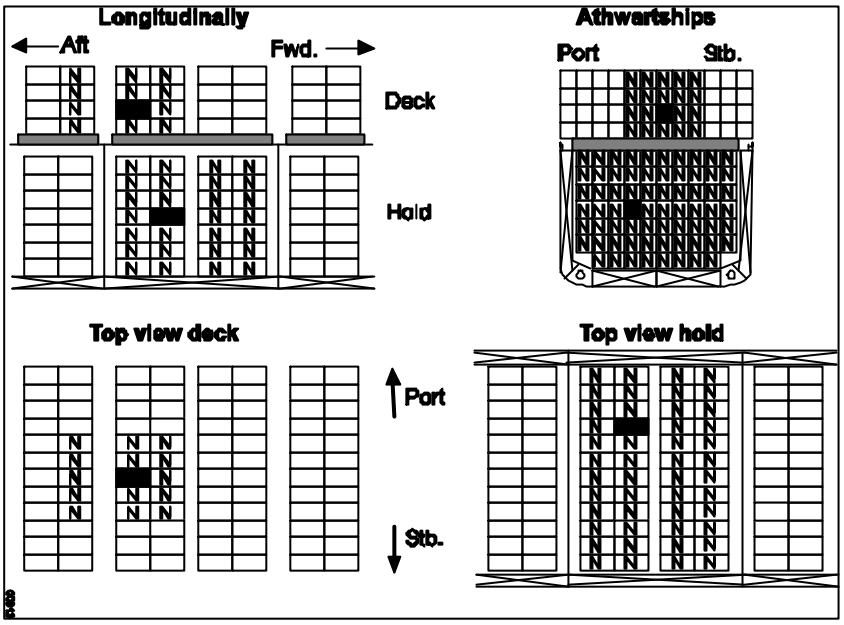
"SEPARATED FROM" .2			
OPEN VERSUS OPEN	**HORIZONTAL**		**VERTICAL**
	ON DECK	**UNDER DECK**	
FORE AND AFT	One container space	One bulkhead	NOT in the same vertical line unless segregated by a deck
ATHWARTSHIPS	Two container spaces	One bulkhead	



2 - Situation *open* versus *open*

Note: All bulkheads and decks shall be resistant to fire and liquids.

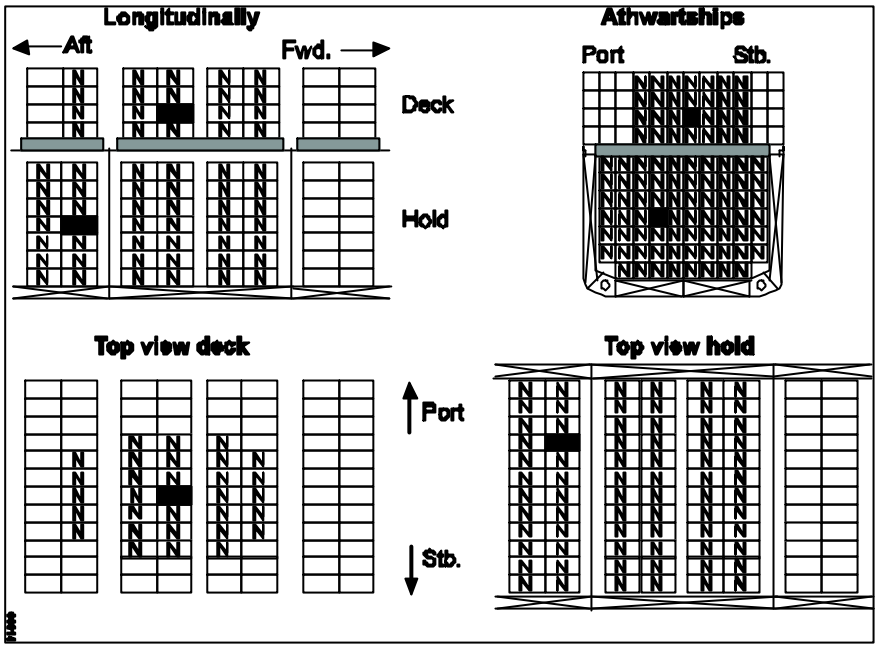
"SEPARATED BY A COMPLETE COMPARTMENT OR HOLD FROM" .3			
CLOSED VERSUS CLOSED OR CLOSED VERSUS OPEN	HORIZONTAL		VERTICAL
	ON DECK	UNDER DECK	
FORE AND AFT	One container space	One bulkhead	NOT in the same vertical line unless segregated by a deck
ATHWARTSHIPS	Two container spaces	One bulkhead	



3 - Situations *closed* versus *closed* and *closed* versus *open*

Note: All bulkheads and decks shall be resistant to fire and liquids.

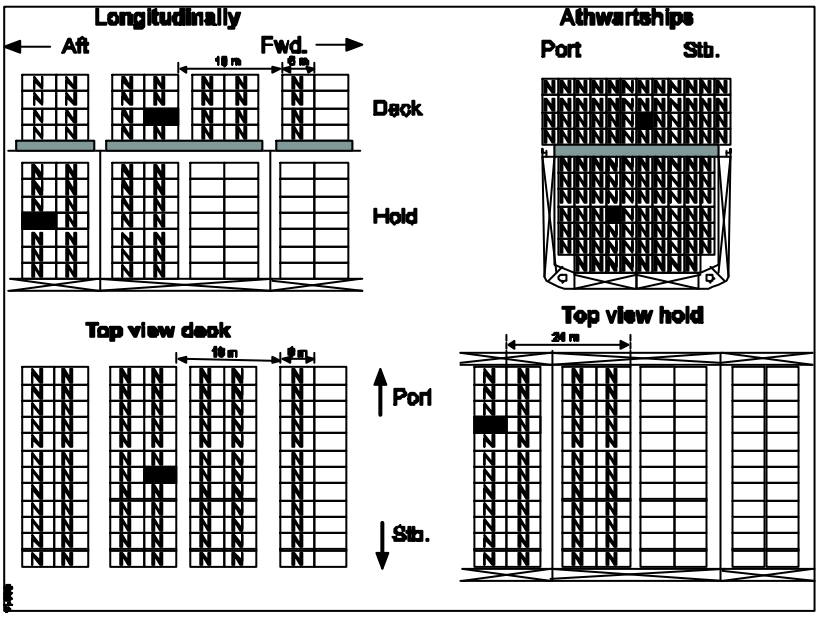
"SEPARATED BY A COMPLETE COMPARTMENT OR HOLD FROM" .3			
OPEN VERSUS OPEN	HORIZONTAL		VERTICAL
	ON DECK	UNDER DECK	
FORE AND AFT	Two container spaces	Two bulkheads	NOT in the same vertical line unless segregated by a deck
ATHWARTSHIPS	Three container spaces	Two bulkheads	



3 - Situation *open* versus *open*

Note: All bulkheads and decks shall be resistant to fire and liquids.

"SEPARATED LONGITUDINALLY BY AN INTERVENING COMPLETE COMPARTMENT OR HOLD FROM" .4			
CLOSED VERSUS CLOSED	**HORIZONTAL**		**VERTICAL**
	ON DECK	**UNDER DECK**	
FORE AND AFT	Minimum Horizontal distance of 24 metres	One bulkhead and minimum horizontal distance of 24 metres*	**Prohibited**
ATHWARTSHIPS	**Prohibited**	**Prohibited**	

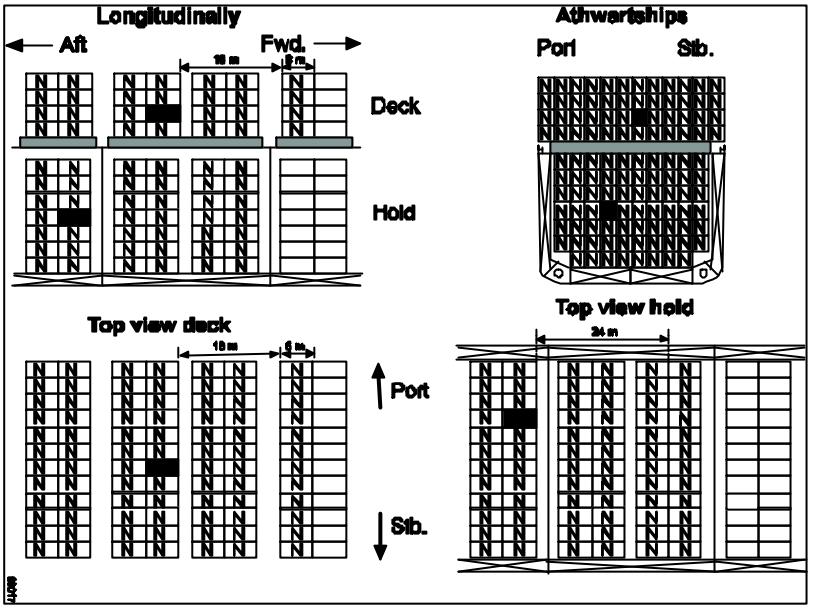


4 - Situation *closed* versus *closed*

Note: All bulkheads and decks shall be resistant to fire and liquids.

* Containers not less than 6 m from intervening bulkhead.

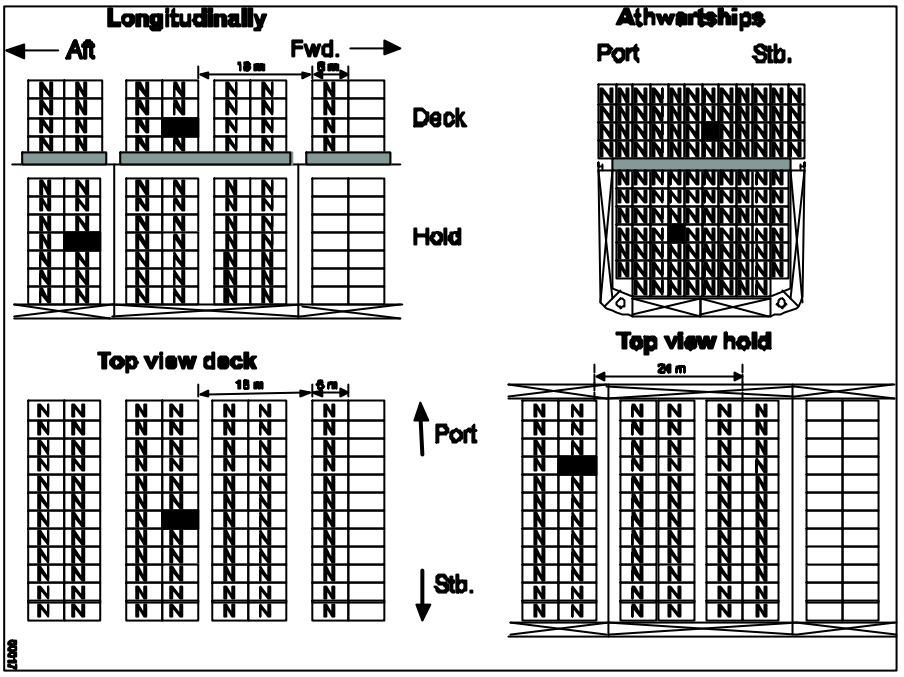
"SEPARATED LONGITUDINALLY BY AN INTERVENING COMPLETE COMPARTMENT OR HOLD FROM" .4			
CLOSED VERSUS OPEN	**HORIZONTAL**		**VERTICAL**
	ON DECK	**UNDER DECK**	
FORE AND AFT	Minimum Horizontal distance of 24 m	Two bulkheads	**Prohibited**
ATHWARTSHIPS	**Prohibited**	**Prohibited**	



4 - Situation *closed* versus *open*

Note: All bulkheads and decks shall be resistant to fire and liquids.

"SEPARATED LONGITUDINALLY BY AN INTERVENING COMPLETE COMPARTMENT OR HOLD FROM" .4			
OPEN VERSUS OPEN	**HORIZONTAL**		**VERTICAL**
	ON DECK	**UNDER DECK**	
FORE AND AFT	Minimum Horizontal distance of 24 metres	Two bulkheads	**Prohibited**
ATHWARTSHIPS	**Prohibited**	**Prohibited**	



4 - Situation *open* versus *open*

Note: All bulkheads and decks shall be resistant to fire and liquids.

7.2.3.3 Table of segregation of cargo transport units on board hatchless container ships

SEGREGATION REQUIREMENT	VERTICAL			HORIZONTAL							
	CLOSED VERSUS CLOSED	CLOSED VERSUS OPEN	OPEN VERSUS OPEN		CLOSED VERSUS CLOSED		CLOSED VERSUS OPEN		OPEN VERSUS OPEN	
					ON DECK	UNDER DECK	ON DECK	UNDER DECK	ON DECK	UNDER DECK
"AWAY FROM" .1	ONE ON TOP OF THE OTHER PERMITTED	OPEN ON TOP OF CLOSED PERMITTED OTHERWISE AS FOR "OPEN VERSUS OPEN"	*NOT* IN THE SAME VERTICAL LINE	FORE AND AFT	NO RESTRICTION	NO RESTRICTION	NO RESTRICTION	NO RESTRICTION	*ONE* CONTAINER SPACE	*ONE* CONTAINER SPACE OR *ONE* BULKHEAD
				ATHWART-SHIPS	NO RESTRICTION	NO RESTRICTION	NO RESTRICTION	NO RESTRICTION	*ONE* CONTAINER SPACE	*ONE* CONTAINER SPACE
"SEPARATED FROM" .2	*NOT* IN THE SAME VERTICAL LINE	AS FOR "OPEN VERSUS OPEN"		FORE AND AFT	*ONE* CONTAINER SPACE	*ONE* CONTAINER SPACE OR *ONE* BULKHEAD	*ONE* CONTAINER SPACE	*ONE* CONTAINER SPACE OR *ONE* BULKHEAD	*ONE* CONTAINER SPACE AND NOT IN OR ABOVE SAME HOLD	*ONE* BULKHEAD
				ATHWART-SHIPS	*ONE* CONTAINER SPACE	*ONE* CONTAINER SPACE	*TWO* CONTAINER SPACES	*TWO* CONTAINER SPACES	*TWO* CONTAINER SPACES AND NOT IN OR ABOVE SAME HOLD	*ONE* BULKHEAD
"SEPARATED BY A COMPLETE COMPARTMENT OR HOLD FROM" .3				FORE AND AFT	*ONE* CONTAINER SPACE AND NOT IN OR ABOVE SAME HOLD	*ONE* BULKHEAD	*ONE* CONTAINER SPACE AND NOT IN OR ABOVE SAME HOLD	*ONE* BULKHEAD	*TWO* CONTAINER SPACES AND NOT IN OR ABOVE SAME HOLD	*TWO* BULKHEADS
				ATHWART-SHIPS	*TWO* CONTAINER SPACES AND NOT IN OR ABOVE SAME HOLD	*ONE* BULKHEAD	*TWO* CONTAINER SPACES AND NOT IN OR ABOVE SAME HOLD	*ONE* BULKHEAD	*THREE* CONTAINER SPACES AND NOT IN OR ABOVE SAME HOLD	*TWO* BULKHEADS
"SEPARATED LONGITUDINALLY BY AN INTERVENING COMPLETE COMPARTMENT OR HOLD FROM" .4	PROHIBITED			FORE AND AFT	MINIMUM HORIZONTAL DISTANCE OF 24 M AND NOT IN OR ABOVE SAME HOLD	*ONE* BULKHEAD *AND* MINIMUM HORIZONTAL DISTANCE OF 24 M*	MINIMUM HORIZONTAL DISTANCE OF 24 M AND NOT IN OR ABOVE SAME HOLD	*TWO* BULKHEADS	MINIMUM HORIZONTAL DISTANCE OF 24 M AND NOT IN OR ABOVE SAME HOLD	*TWO* BULKHEADS
				ATHWART-SHIPS	PROHIBITED	PROHIBITED	PROHIBITED	PROHIBITED	PROHIBITED	PROHIBITED

*****CONTAINERS NOT LESS THAN 6 M FROM INTERVENING BULKHEAD.

NOTE: ALL BULKHEADS AND DECKS SHALL BE RESISTANT TO FIRE AND LIQUID

7.2.3.3.1 *Illustrations of segregation of cargo transport units on board hatchless container ships*

7.2.3.3.1.1 The illustrations of this subsection apply to the segregation of cargo transport units which are transported on board hatchless container ships provided that the cargo spaces are properly fitted to give permanent stowage of the cargo transport units during transport*.

7.2.3.3.1.2 To determine locations in which cargo transport units are not permitted to contain dangerous goods that are incompatible with those in a reference cargo transport unit, the following method shall be used: container spaces (such as one container space, two container spaces) are identified in accordance with the applicable segregation provisions in the direct fore-and-aft and athwartship directions from the reference cargo transport unit. Lines are projected

* For partly hatchless container ships with conventional container cargo spaces, the illustrations of 7.2.3.2.1 apply to such spaces

between the outermost corners of the cargo transport units occupying these spaces as shown in the figure. Cargo transport units located partially or complete completely between these lines and the reference cargo transport unit shall not contain dangerous goods that are incompatible with those in the reference cargo transport unit.

7.2.3.3.1.3 The deck/hold lay-out used for the illustrations is:

- two 20' containers stowed in a 40' container space
- distance between two 40'container spaces is 2 feet/60 cm

7.2.3.3.1.4 *Definitions of the segregation terms*

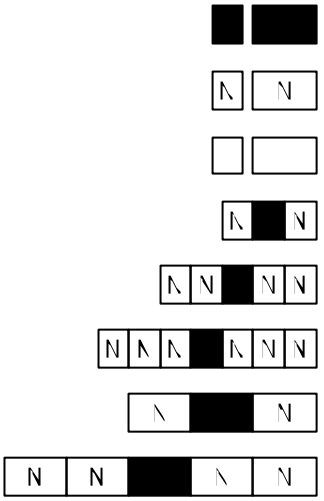
(1) Reference cargo transport unit (CTU) .....

(2) CTU containing incompatible goods NOT permitted .....

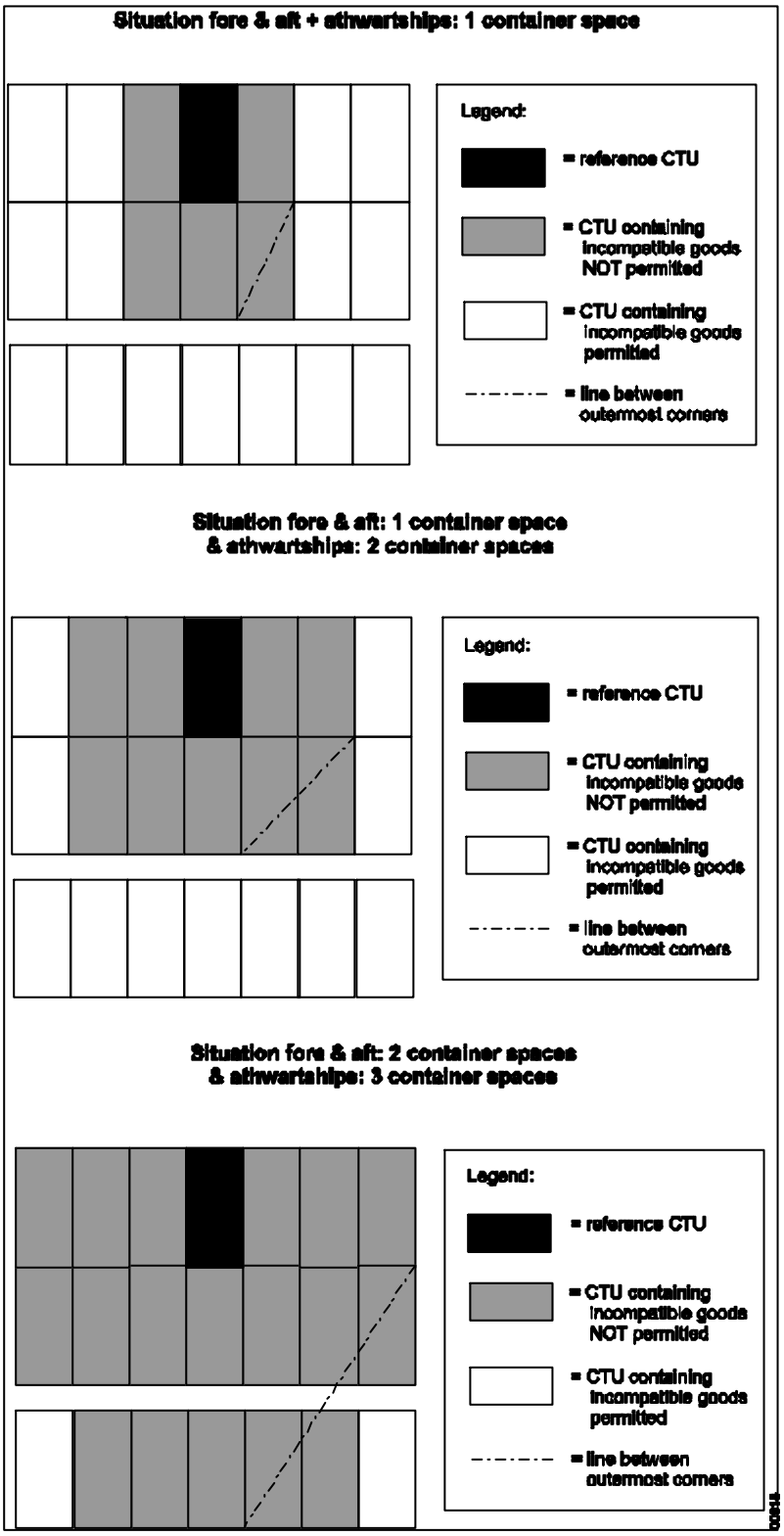
(3) CTU containing incompatible goods permitted .....

(4) Distance athwarthships
- (a) two container spaces .....
- (b) two container space.....
- (c) Three container spaces .....

(5) Distance Fore and Aft:
- (a) one container space.....
- (b) two container spaces .....

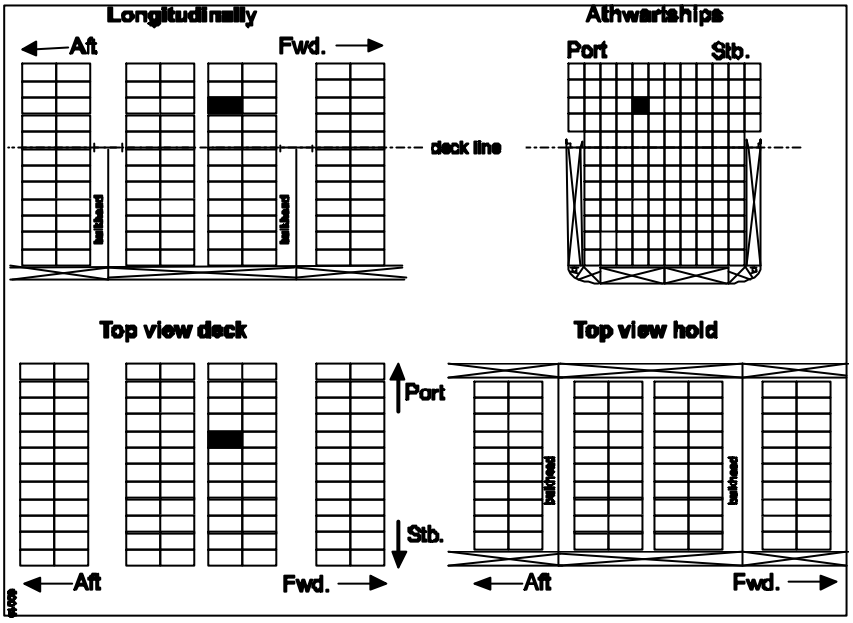


Note: All bulkheads and decks shall be resistant to fire and liquids.



Note: All bulkheads and decks shall be resistant to fire and liquids.

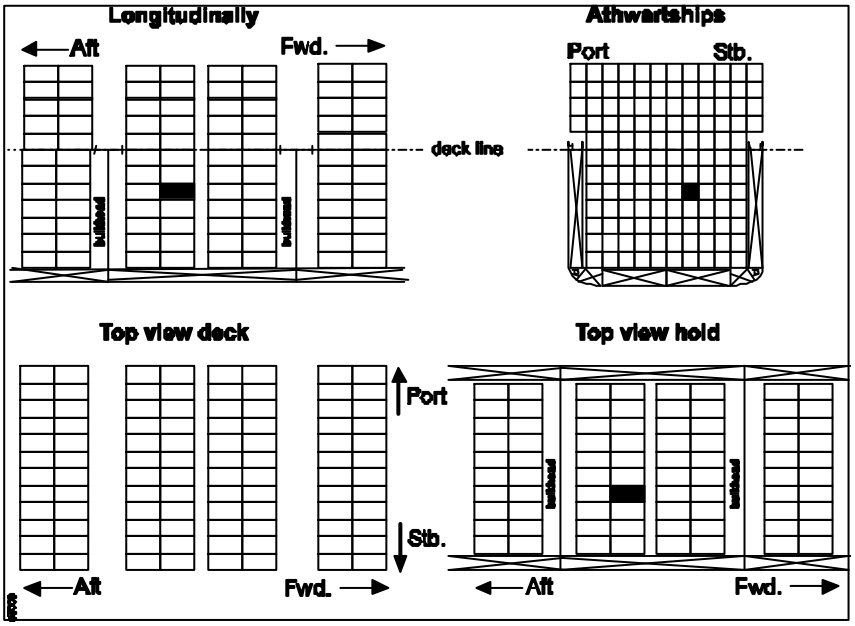
"AWAY FROM" .1		
CLOSED VERSUS CLOSED	**HORIZONTAL**	**VERTICAL**
	ON DECK	
FORE AND AFT	No Restriction	One on top of the other permitted
ATHWARTSHIPS	No Restriction	



1 - Situation *closed* versus *closed* - ON DECK

Note: All bulkheads and decks shall be resistant to fire and liquids.

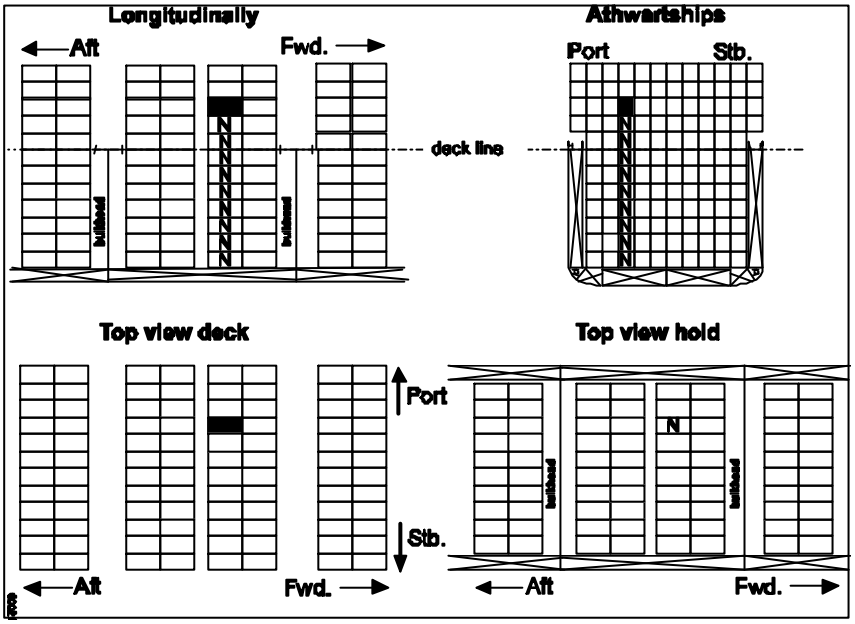
"AWAY FROM" .1		
CLOSED VERSUS CLOSED	**HORIZONTAL**	**VERTICAL**
	UNDER DECK	
FORE AND AFT	No Restriction	One on top of the other permitted
ATHWARTSHIPS	No Restriction	



1 - Situation *closed* versus *closed* - UNDER DECK

Note: All bulkheads and decks shall be resistant to fire and liquids.

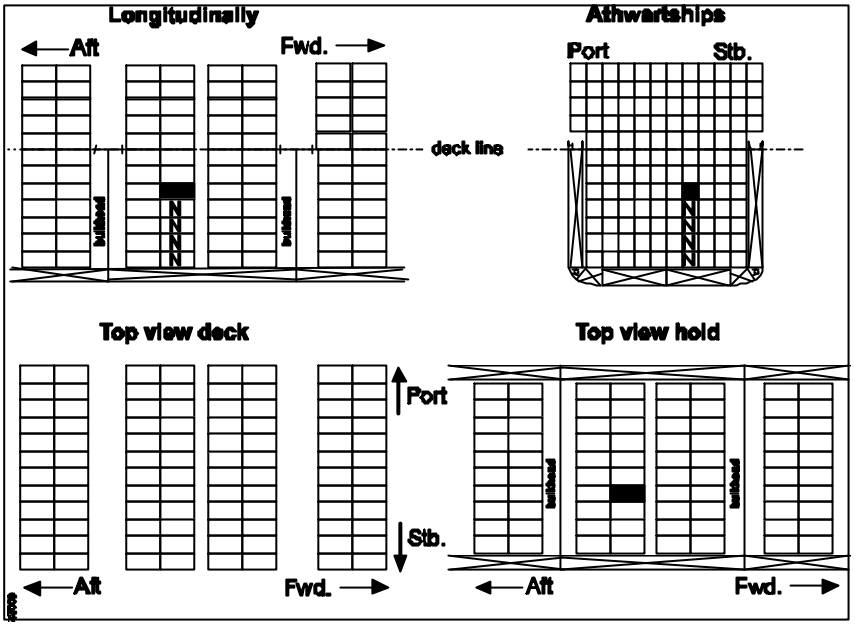
"AWAY FROM" .1		
CLOSED VERSUS OPEN	**HORIZONTAL**	**VERTICAL**
	ON DECK	
FORE AND AFT	No Restriction	Open on top of closed permitted
ATHWARTSHIPS	No Restriction	Otherwise NOT in the same vertical line



1 - Situation *closed* versus *open* - ON DECK

Note: All bulkheads and decks shall be resistant to fire and liquids.

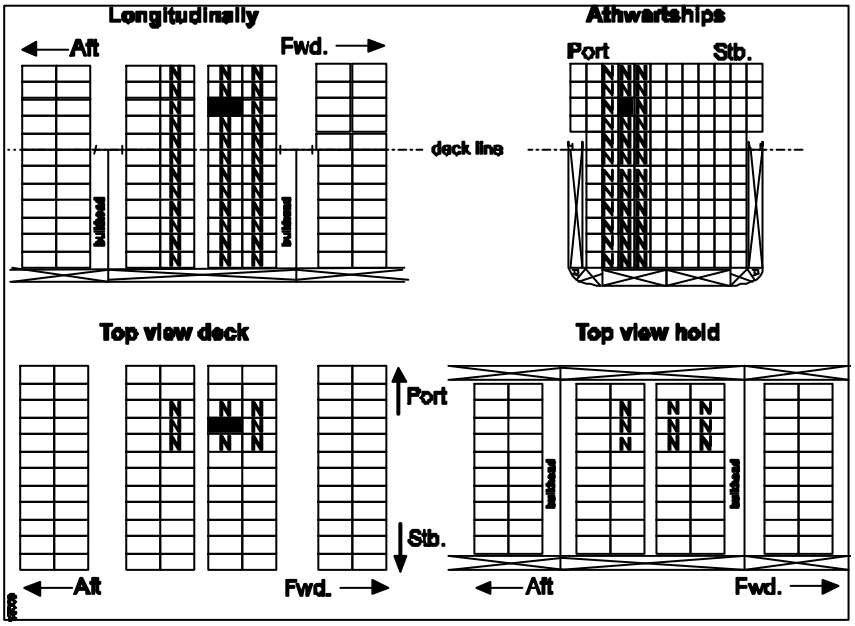
"AWAY FROM" .1		
CLOSED VERSUS OPEN	**HORIZONTAL**	**VERTICAL**
	UNDER DECK	
FORE AND AFT	No Restriction	Open on top of closed permitted
ATHWARTSHIPS	No Restriction	Otherwise NOT in the same vertical line



1 - Situation *closed* versus *open* - UNDER DECK

Note: All bulkheads and decks shall be resistant to fire and liquids.

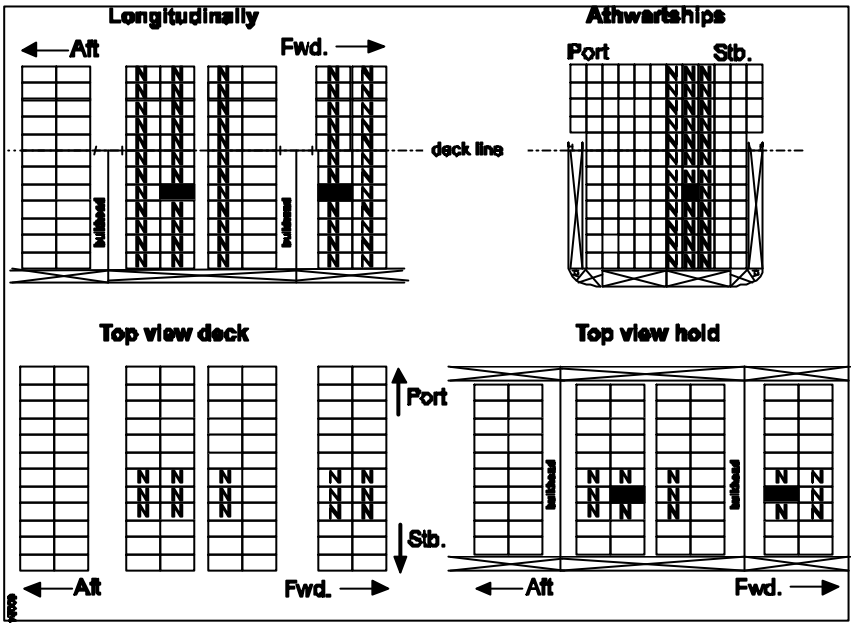
"AWAY FROM" .1		
OPEN VERSUS OPEN	**HORIZONTAL**	**VERTICAL**
	ON DECK	
FORE AND AFT	One container space	NOT in the same vertical line
ATHWARTSHIPS	One container space	



1 - Situation *open* versus *open* - ON DECK

Note: All bulkheads and decks shall be resistant to fire and liquids.

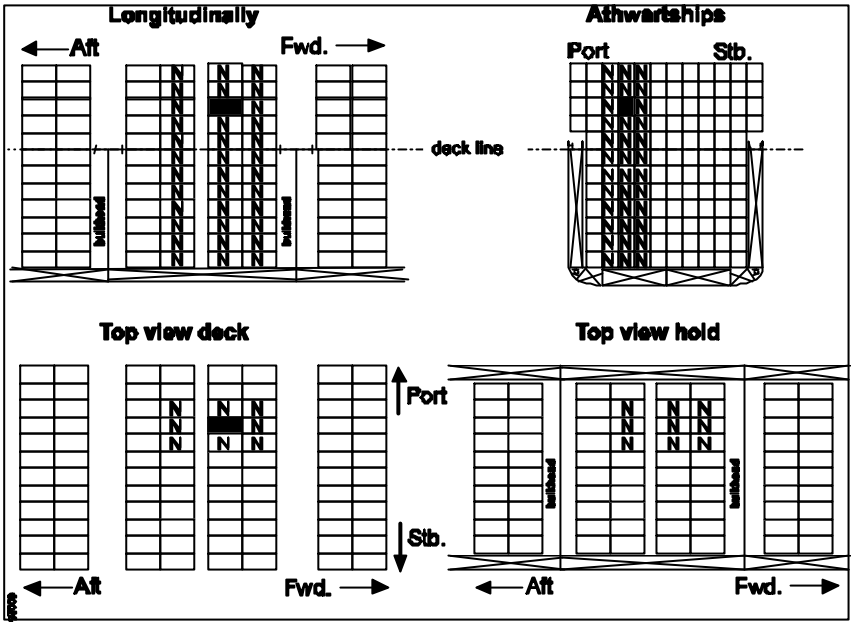
"AWAY FROM" .1		
OPEN VERSUS OPEN	**HORIZONTAL**	**VERTICAL**
	UNDER DECK	
FORE AND AFT	One container space or one bulkhead	NOT in the same vertical line
ATHWARTSHIPS	One container space	



1 - Situation *open* versus *open* - UNDER DECK

Note: All bulkheads and decks shall be resistant to fire and liquids.

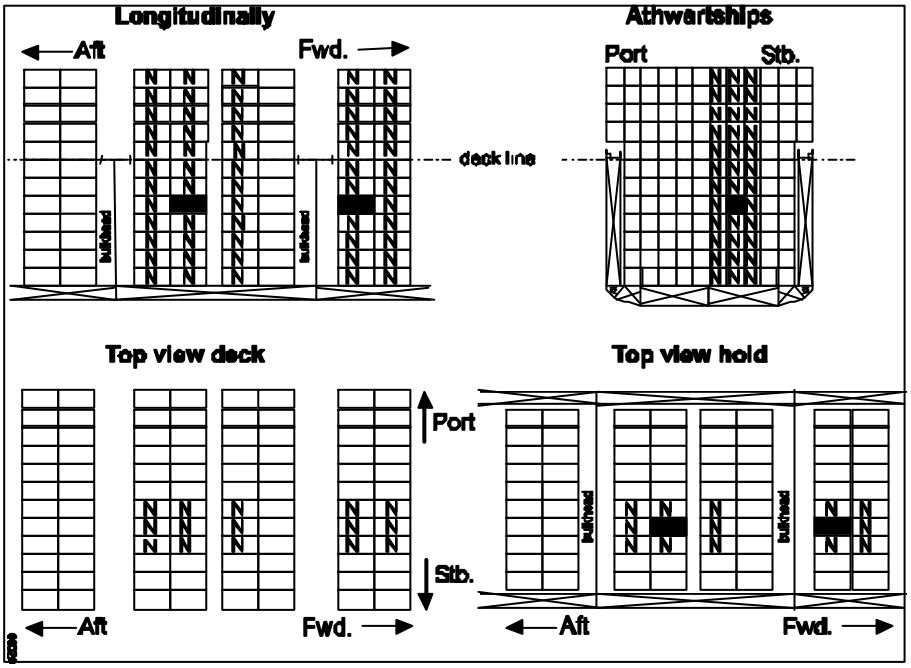
"SEPARATED FROM" .2		
CLOSED VERSUS CLOSED	**HORIZONTAL**	**VERTICAL**
	ON DECK	
FORE AND AFT	One container space	NOT in the same vertical line
ATHWARTSHIPS	One container space	



2 - Situation *closed* versus *closed* - ON DECK

Note: All bulkheads and decks shall be resistant to fire and liquids.

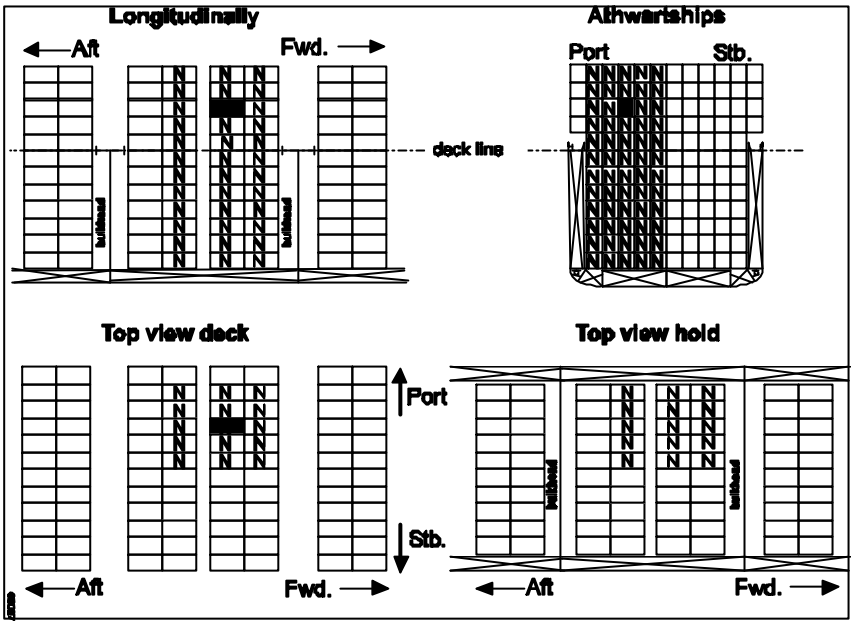
"SEPARATED FROM" .2		
CLOSED VERSUS CLOSED	**HORIZONTAL**	**VERTICAL**
	UNDER DECK	
FORE AND AFT	One container space or one bulkhead	NOT in the same vertical line
ATHWARTSHIPS	One container space	



2 - Situation *closed* versus *closed* - UNDER DECK

Note: All bulkheads and decks shall be resistant to fire and liquids.

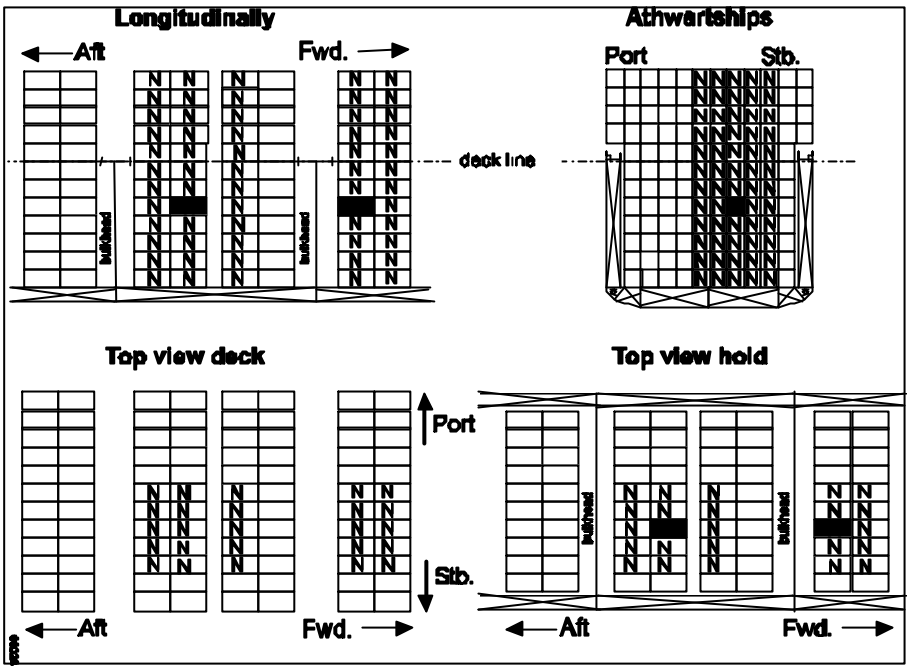
"SEPARATED FROM" .2		
CLOSED VERSUS OPEN	**HORIZONTAL**	**VERTICAL**
	ON DECK	
FORE AND AFT	One container space	NOT in the same vertical line
ATHWARTSHIPS	Two container spaces	



2 - Situation *closed* versus *open* - ON DECK

Note: All bulkheads and decks shall be resistant to fire and liquids.

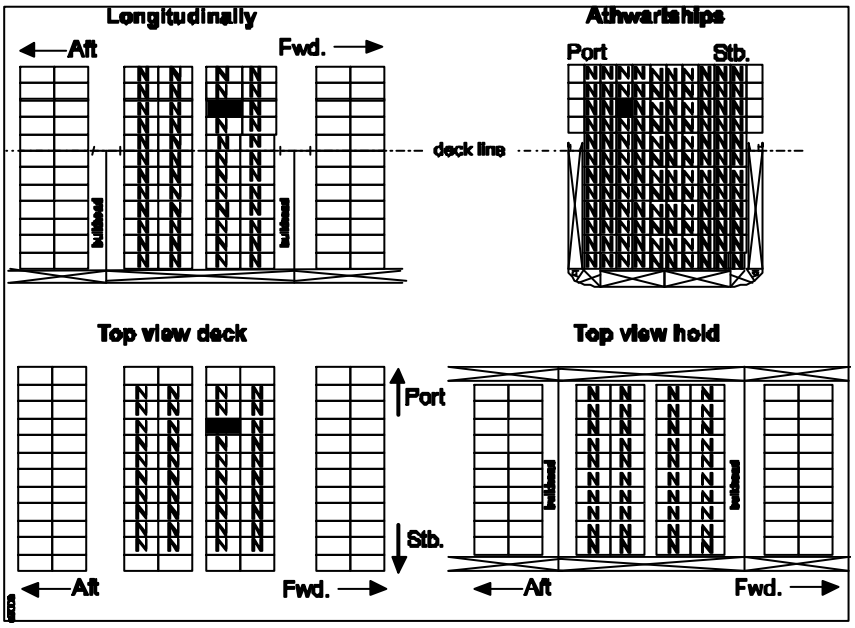
"SEPARATED FROM" .2		
CLOSED VERSUS OPEN	**HORIZONTAL**	**VERTICAL**
	UNDER DECK	
FORE AND AFT	One container space or one bulkhead	NOT in the same vertical line
ATHWARTSHIPS	Two container spaces	



2 - Situation *closed* versus *open* - UNDER DECK

Note: All bulkheads and decks shall be resistant to fire and liquids.

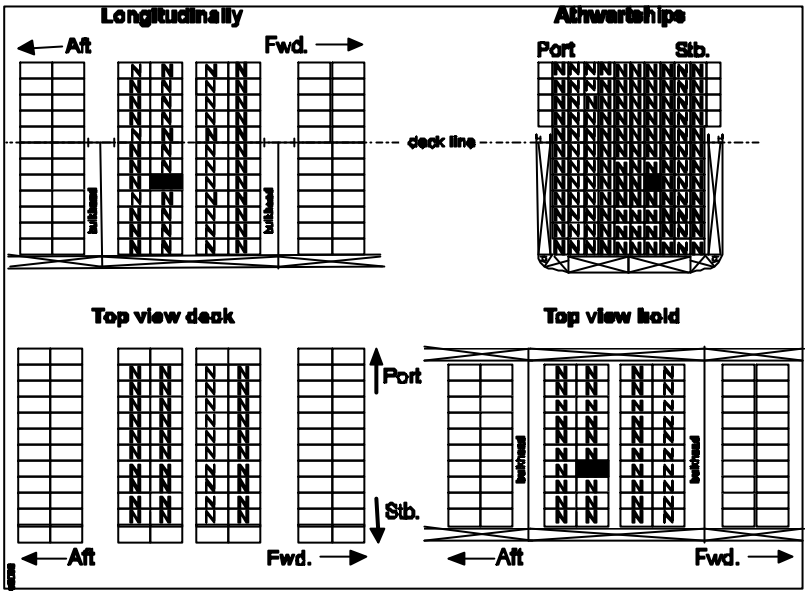
"SEPARATED FROM" .2		
OPEN VERSUS OPEN	**HORIZONTAL**	**VERTICAL**
	ON DECK	
FORE AND AFT	One container space and not in or above same hold	NOT in the same vertical line
ATHWARTSHIPS	Two container spaces and not in or above same hold	



2 - Situation *open* versus *open* - ON DECK

Note: All bulkheads and decks shall be resistant to fire and liquids.

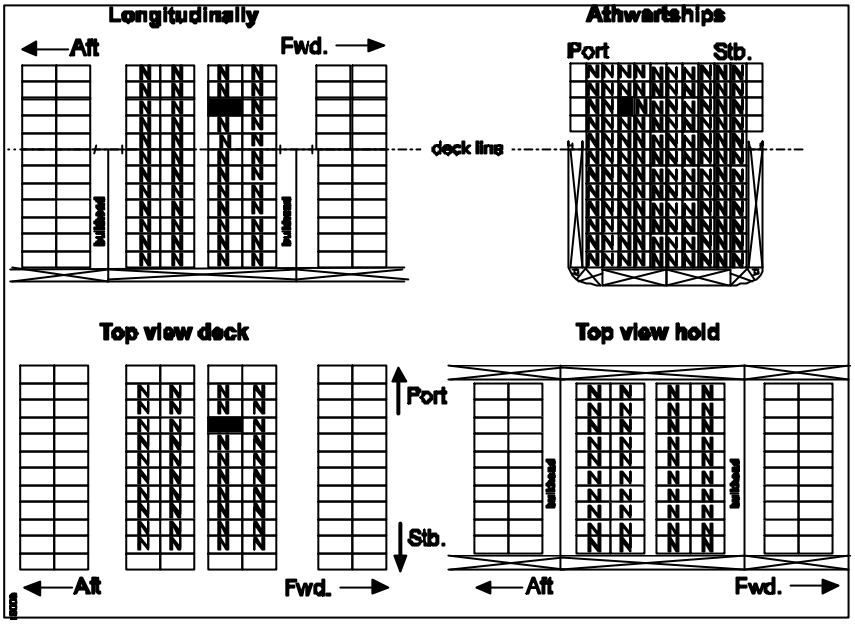
"SEPARATED FROM" .2		
OPEN VERSUS OPEN	**HORIZONTAL**	**VERTICAL**
	UNDER DECK	
FORE AND AFT	One bulkhead	NOT in the same vertical line
ATHWARTSHIPS	One bulkhead	



2 - Situation *open* versus *open* - UNDER DECK

Note: All bulkheads and decks shall be resistant to fire and liquids.

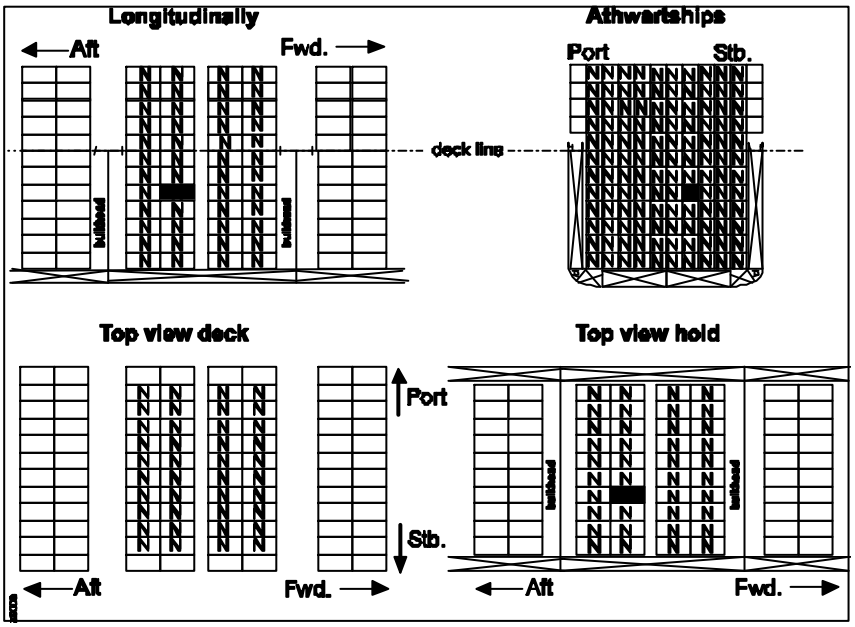
"SEPARATED BY A COMPLETE COMPARTMENT OR HOLD FROM" .3		
CLOSED VERSUS CLOSED	**HORIZONTAL**	**VERTICAL**
	ON DECK	
FORE AND AFT	One container space and not in or above same hold	NOT in the same vertical line
ATHWARTSHIPS	Two container spaces and not above same hold	



3 - Situation *closed* versus *closed* - ON DECK

Note: All bulkheads and decks shall be resistant to fire and liquids.

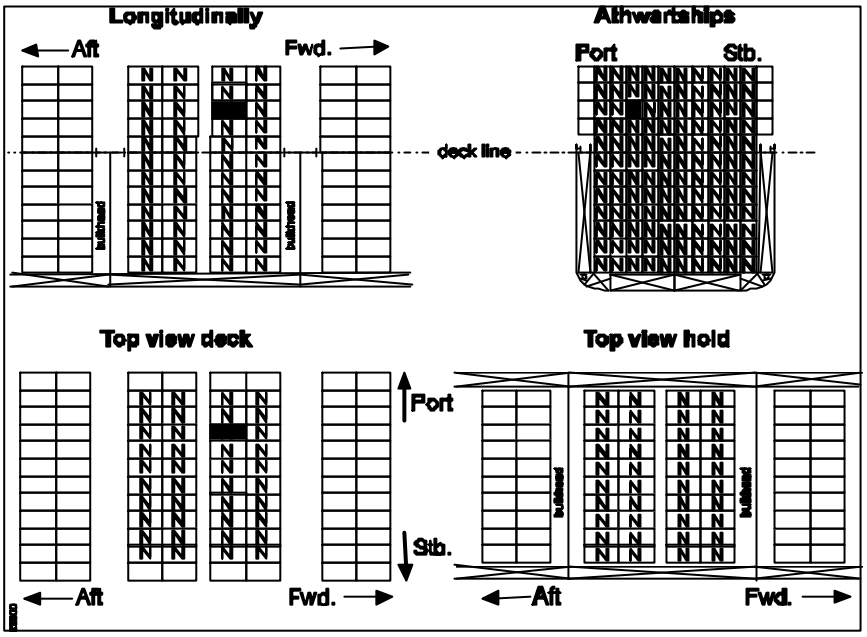
"SEPARATED BY A COMPLETE COMPARTMENT OR HOLD FROM" .3		
CLOSED VERSUS CLOSED	**HORIZONTAL**	**VERTICAL**
	UNDER DECK	
FORE AND AFT	One bulkhead	NOT in the same vertical line
ATHWARTSHIPS	One bulkhead	



3 - Situation *closed* versus *closed* - UNDER DECK

Note: All bulkheads and decks shall be resistant to fire and liquids.

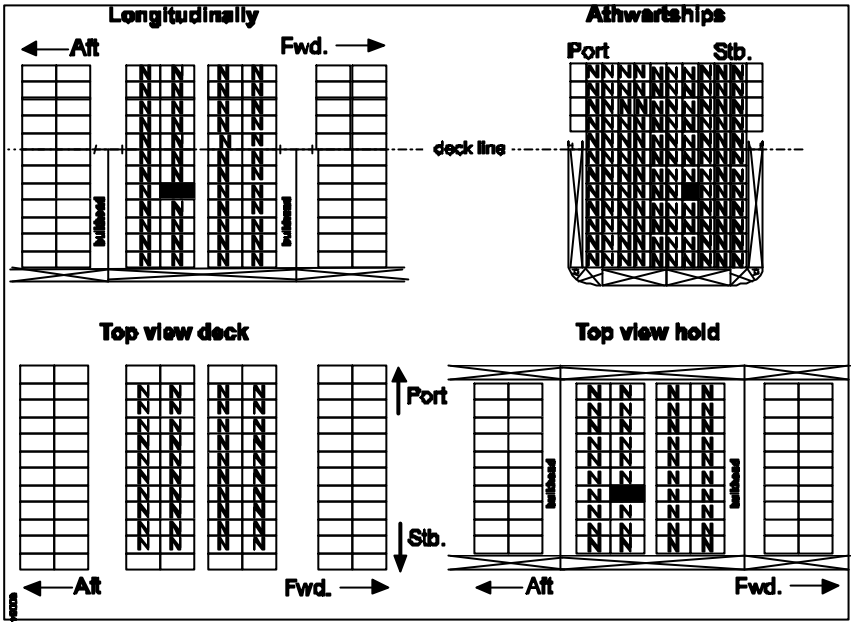
"SEPARATED BY A COMPLETE COMPARTMENT OR HOLD FROM" .3		
CLOSED VERSUS OPEN	**HORIZONTAL**	**VERTICAL**
	ON DECK	
FORE AND AFT	One container space and not in or above same hold	NOT in the same vertical line
ATHWARTSHIPS	Two container spaces and not above same hold	



3 - Situation *closed* versus *open* - ON DECK

Note: All bulkheads and decks shall be resistant to fire and liquids.

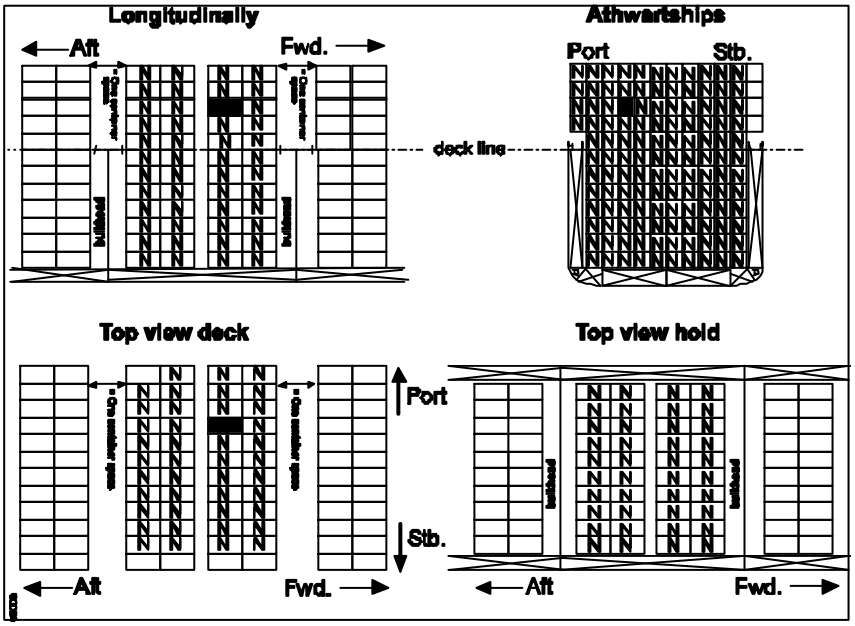
"SEPARATED BY A COMPLETE COMPARTMENT OR HOLD FROM" .3		
CLOSED VERSUS OPEN	**HORIZONTAL**	**VERTICAL**
	UNDER DECK	
FORE AND AFT	One bulkhead	NOT in the same vertical line
ATHWARTSHIPS	One bulkhead	



3 - Situation *closed* versus *open* - UNDER DECK

Note: All bulkheads and decks shall be resistant to fire and liquids.

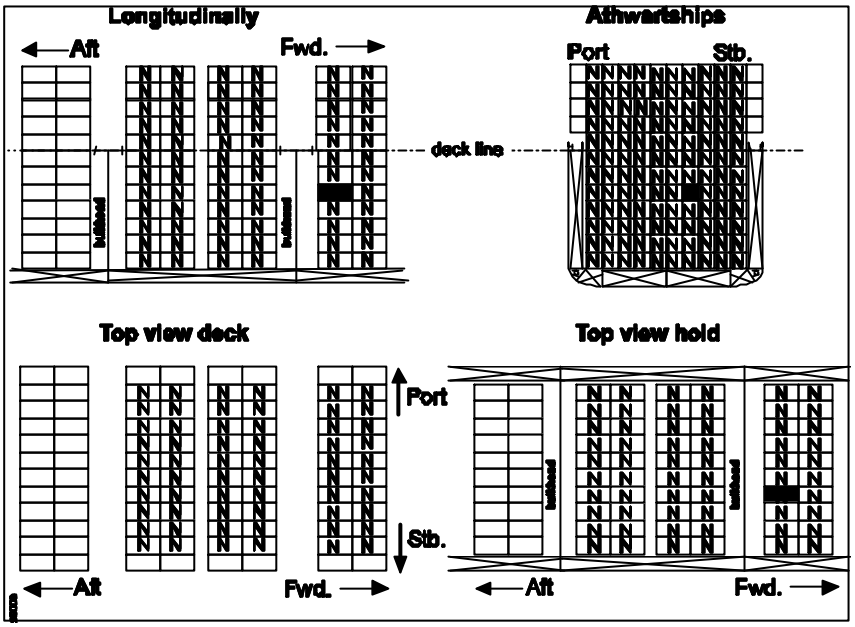
"SEPARATED BY A COMPLETE COMPARTMENT OR HOLD FROM" .3		
OPEN VERSUS OPEN	**HORIZONTAL**	**VERTICAL**
	ON DECK	
FORE AND AFT	Two container spaces and not in or above same hold	NOT in the same vertical line
ATHWARTSHIPS	Three container spaces and not above same hold	



3 - Situation *Open* versus *Open* - ON DECK

Note: All bulkheads and decks shall be resistant to fire and liquids.

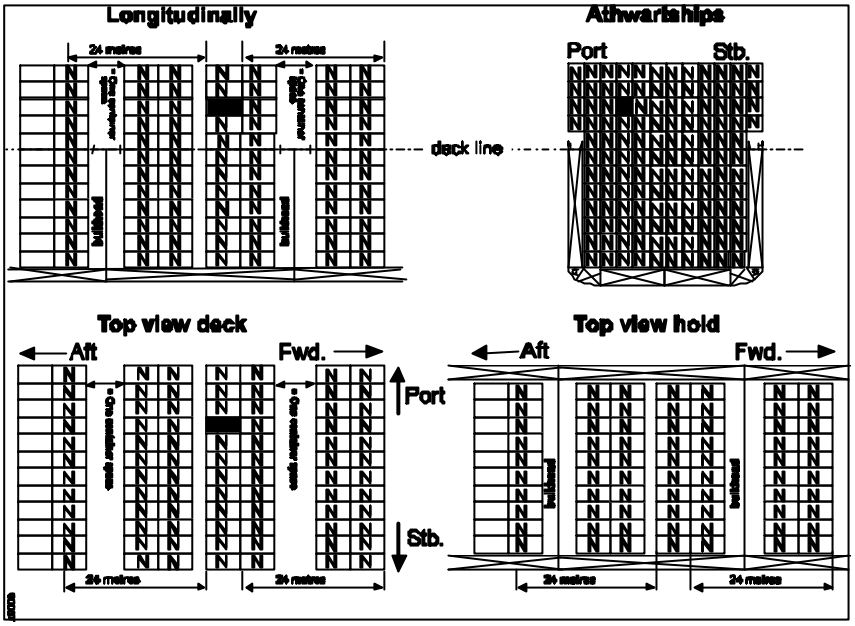
"SEPARATED BY A COMPLETE COMPARTMENT OR HOLD FROM" .3		
OPEN VERSUS OPEN	**HORIZONTAL**	**VERTICAL**
	UNDER DECK	
FORE AND AFT	Two bulkheads	NOT in the same vertical line
ATHWARTSHIPS	Two bulkheads	



3 - Situation *Open* versus *Open* - UNDER DECK

Note: All bulkheads and decks shall be resistant to fire and liquids.

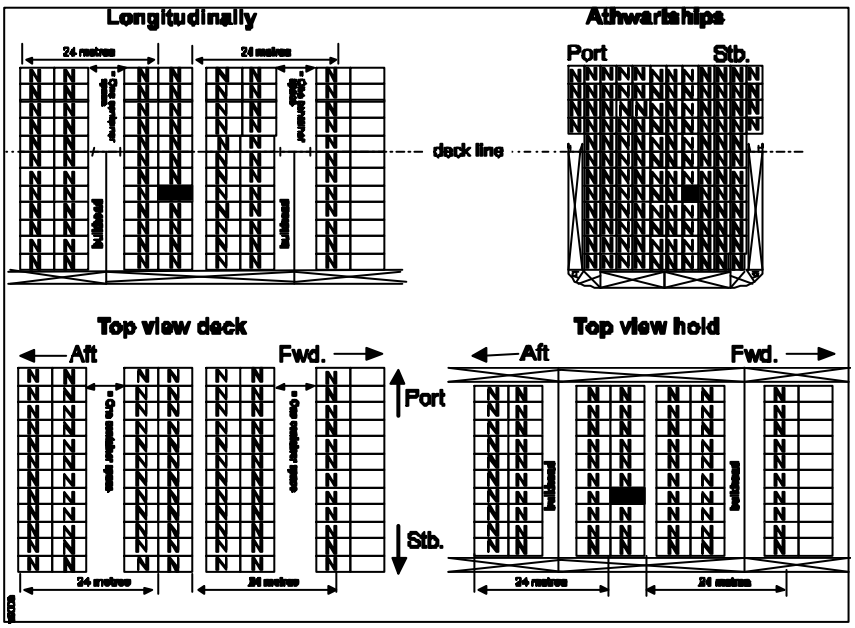
"SEPARATED LONGITUDINALLY BY AN INTERVENING COMPLETE COMPARTMENT OR HOLD FROM" .4		
CLOSED VERSUS CLOSED	**HORIZONTAL**	**VERTICAL**
	ON DECK	
FORE AND AFT	Minimum horizontal distance of 24 metres and not in or above same hold	**Prohibited**
ATHWARTSHIPS	**Prohibited**	



4 - Situation *closed* versus *closed* - ON DECK

Note: All bulkheads and decks shall be resistant to fire and liquids

"SEPARATED LONGITUDINALLY BY AN INTERVENING COMPLETE COMPARTMENT OR HOLD FROM" .4		
CLOSED VERSUS CLOSED	**HORIZONTAL**	**VERTICAL**
	UNDER DECK	
FORE AND AFT	One bulkhead and minimum horizontal distance of 24 metres*	**Prohibited**
ATHWARTSHIPS	**Prohibited**	

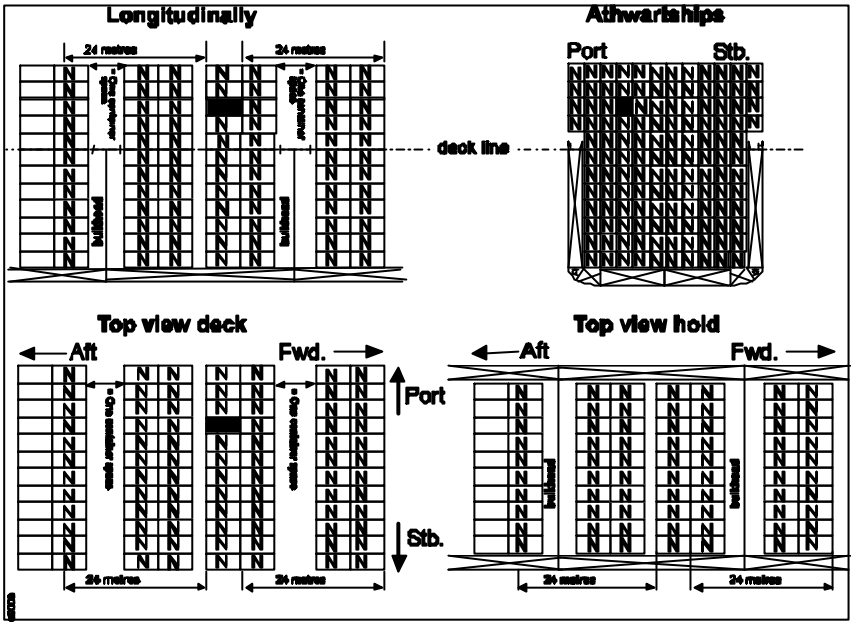


4 - Situation *closed* versus *closed* - UNDER DECK

Note: All bulkheads and decks shall be resistant to fire and liquids

* Containers not less than 6 m from intervening bulkhead.

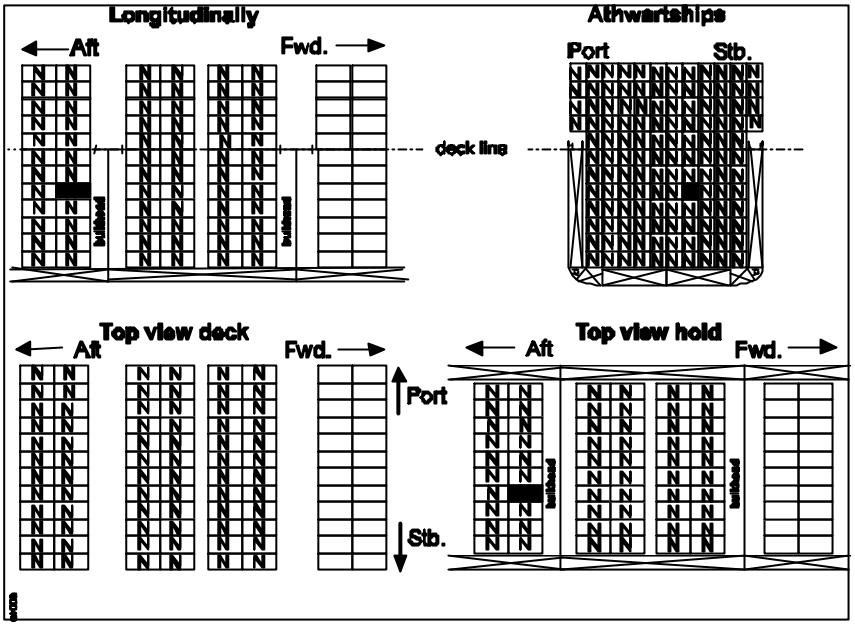
"SEPARATED LONGITUDINALLY BY AN INTERVENING COMPLETE COMPARTMENT OR HOLD FROM" .4		
CLOSED VERSUS OPEN OR OPEN VERSUS OPEN	**HORIZONTAL**	**VERTICAL**
	ON DECK	
FORE AND AFT	Minimum horizontal distance of 24 metres and not above same hold	**Prohibited**
ATHWARTSHIPS	**Prohibited**	



4 - Situation *closed versus open* and *open versus open*- ON DECK

Note: All bulkheads and decks shall be resistant to fire and liquids

"SEPARATED LONGITUDINALLY BY AN INTERVENING COMPLETE COMPARTMENT OR HOLD FROM" .4		
CLOSED VERSUS OPEN OR OPEN VERSUS OPEN	**HORIZONTAL**	**VERTICAL**
	UNDER DECK	
FORE AND AFT	Two bulkheads	**Prohibited**
ATHWARTSHIPS	**Prohibited**	



4 - Situation *closed versus open* and *open versus open*- UNDER DECK

Note: All bulkheads and decks shall be resistant to fire and liquids

7.2.4 Segregation of cargo transport units on board roll-on/roll-off ships

7.2.4.1 Applicability

7.2.4.1.1 These provisions apply to the segregation of cargo transport units which are transported on board roll-on/roll-off ships or in roll-on/roll-off cargo spaces.

7.2.4.1.2 For roll-on/roll-off ships which carry cargo transport units on decks or in holds, and when these cargo spaces are properly arranged for the permanent stowage of such cargo transport units during transport, the provisions of 7.2.3 shall apply to such spaces.

7.2.4.1.3 For roll-on/roll-off ships which incorporate conventional cargo spaces or any other method of stowage, the appropriate paragraph of this chapter shall apply to the relevant cargo space.

7.2.4.2 Table of segregation of cargo transport units on board ro-ro ships

SEGREGATION REQUIREMENT		HORIZONTAL					
		CLOSED VERSUS CLOSED		CLOSED VERSUS OPEN		OPEN VERSUS OPEN	
		ON DECK	UNDER DECK	ON DECK	UNDER DECK	ON DECK	UNDER DECK
"AWAY FROM" .1	FORE AND AFT	NO RESTRICTION	NO RESTRICTION	NO RESTRICTION	NO RESTRICTION	AT LEAST 3 METRES	AT LEAST 3 METRES
	ATHWART-SHIPS	NO RESTRICTION	NO RESTRICTION	NO RESTRICTION	NO RESTRICTION	AT LEAST 3 METRES	AT LEAST 3 METRES
"SEPARATED FROM" .2	FORE AND FAT	AT LE AST 6 METRES	AT LEAST 6 METRES OR *ONE* BULKHEAD	AT LEAST 6 METRES	AT LEAST 6 METRES OR *ONE* BULKHEAD	AT LEAST 6 METRES	AT LEAST 12 METRES OR *ONE* BULKHEAD
	ATHWART-SHIPS	AT LEAST 3 METRES	AT LEAST 3 METRES OR *ONE* BULKHEAD	AT LEAST 3 METRES	AT LEAST 6 METRES OR *ONE* BULKHEAD	AT LEAST 6 METRES	AT LEAST 12 METRES OR *ONE* BULKHEAD
"SEPARATED BY A COMPLETE COMPARTMENT OR HOLD FROM" .3	FORE AND FAT	AT LEAST 12 METRES	AT LEAST 24 METRES + DECK	AT LEAST 24 METRES	AT LEAST 24 METRES + DECK	AT LEAST 36 METRES	*TWO* DECKS OR *TWO* BULKHEADS
	ATHWART-SHIPS	AT LEAST 12 METRES	AT LEAST 24 METRES + DECK	AT LEAST 24 METRES	AT LEAST 24 METRES + DECK	PROHIBITED	PROHIBITED
"SEPARATED LONGITUDINALLY BY AN INTERVENING COMPLETE COMPARTMENT OR HOLD FROM" .4	FORE AND FAT	AT LEAST 36 METRES	*TWO* BULKHEADS OR AT LEAST 36 METRES + *TWO* DECKS	AT LEAST 36 METRES	AT LEAST 48 METRES INCLUDING *TWO* BULKHEADS	AT LEAST 48 METRES	PROHIBITED
	ATHWART-SHIPS	PROHIBITED	PROHIBITED	PROHIBITED	PROHIBITED	PROHIBITED	PROHIBITED

NOTE: ALL BULKHEADS AND DECKS SHALL BE RESISTANT TO FIRE AND LIQUID.

7.2.4.2.1 *Illustrations of segregation of cargo transport units on board ro-ro ships*

7.2.4.2.1.1 The illustrations of this subsection apply to the segregation of cargo transport units which are transported on board roll-on/roll-off ships or in roll-on/roll-of cargo spaces*.

7.2.4.2.1.2 To determine locations in which cargo transport units are not permitted to contain dangerous goods that are incompatible with those in a reference cargo transport unit, the following method shall be used: locations where incompatible dangerous goods are not permitted with respect to the referenced cargo transport unit are first determined in the direct fore and aft and athwartships directions. Lines are projected between the outermost corners of the cargo transport units occupying these spaces as shown in the figure. Cargo transport units located

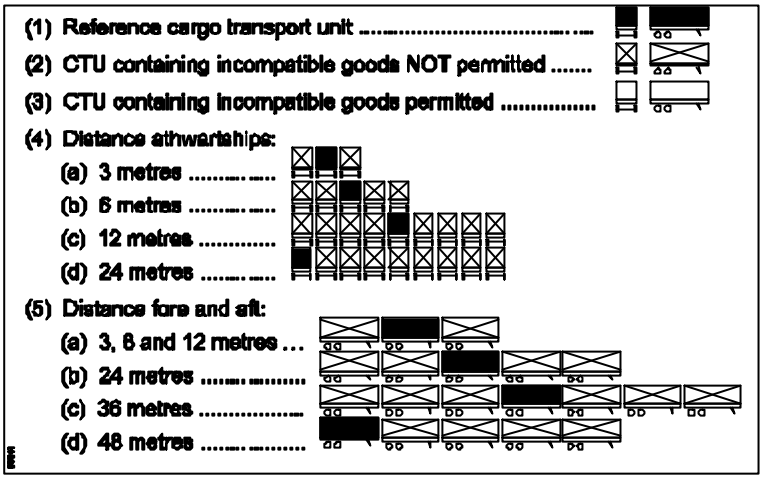
* For ro-ro ships which carry cargo transport units on decks or in holds, the illustrations of 7.2.3.2.1 apply to such spaces.

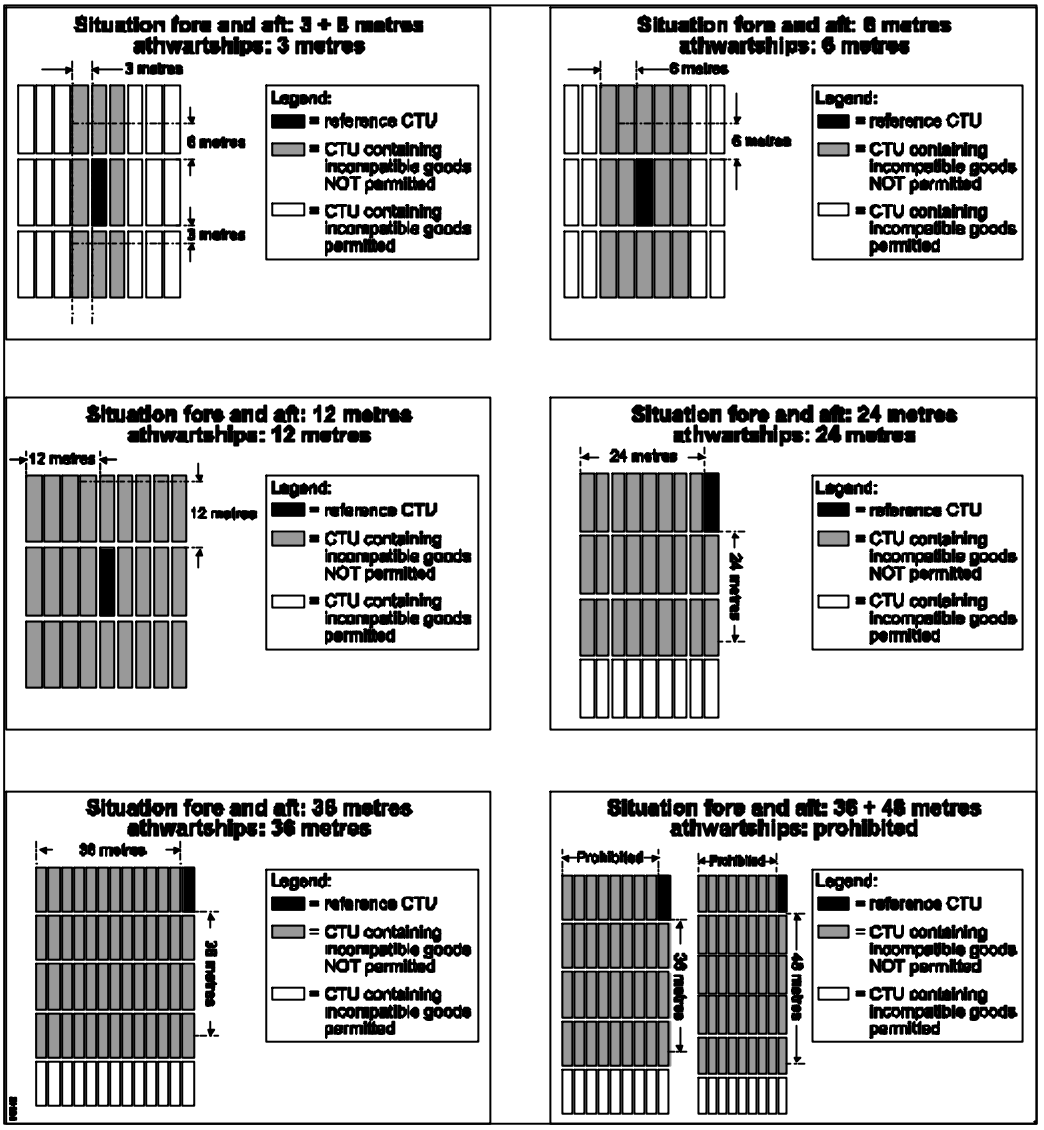
partially or completely between these lines and the reference cargo transport unit shall not contain dangerous goods that are incompatible with those in the reference cargo transport unit.

7.2.4.2.1.3 The standard dimension of a cargo transport unit used for the illustrations is:

- length: 12 m
- width: 2.50 m

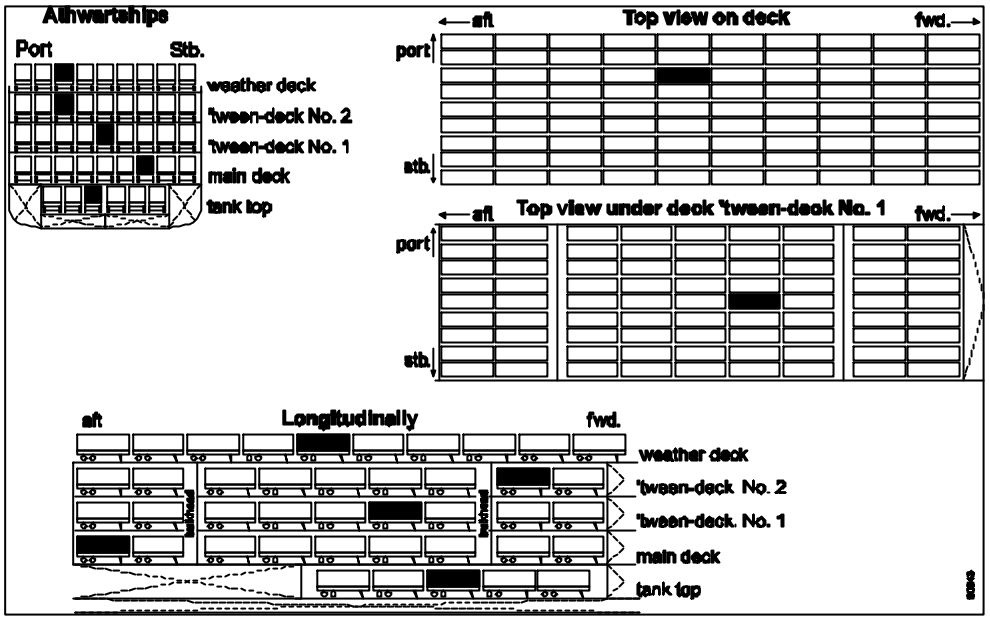
7.2.4.2.1.4 *Definitions of the segregation terms*





Note: All bulkheads and decks shall be resistant to fire and liquid.

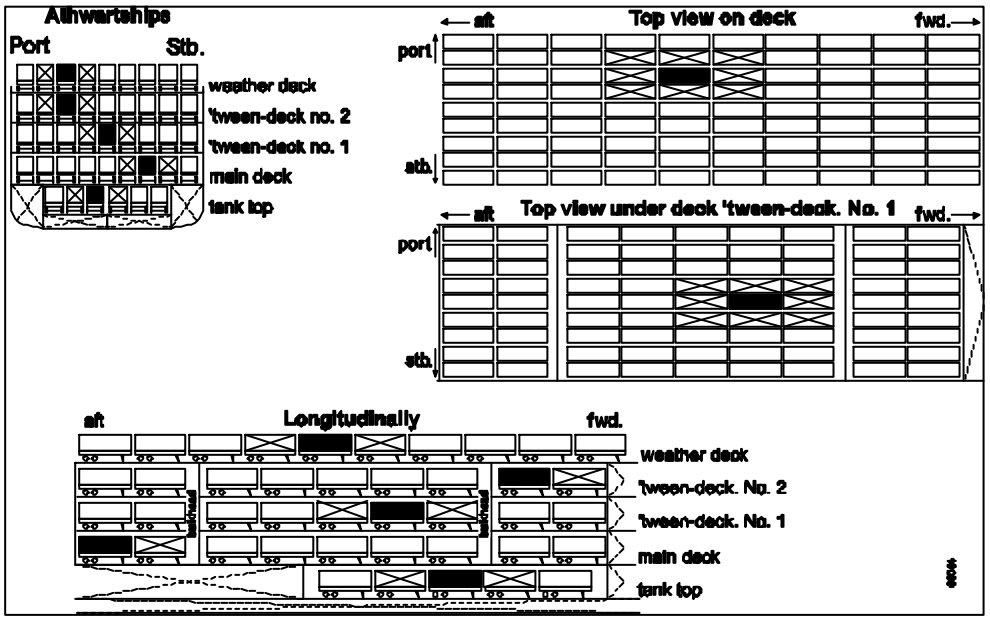
"AWAY FROM" .1		
CLOSED VERSUS CLOSED OR CLOSED VERSUS OPEN	**ON DECK**	**UNDER DECK**
FORE AND AFT	No restriction	No restriction
ATHWARTSHIPS	No restriction	No restriction



1 - Situations *closed* versus *closed* and *closed* versus *open*

Note: All bulkheads and decks shall be resistant to fire and liquids.

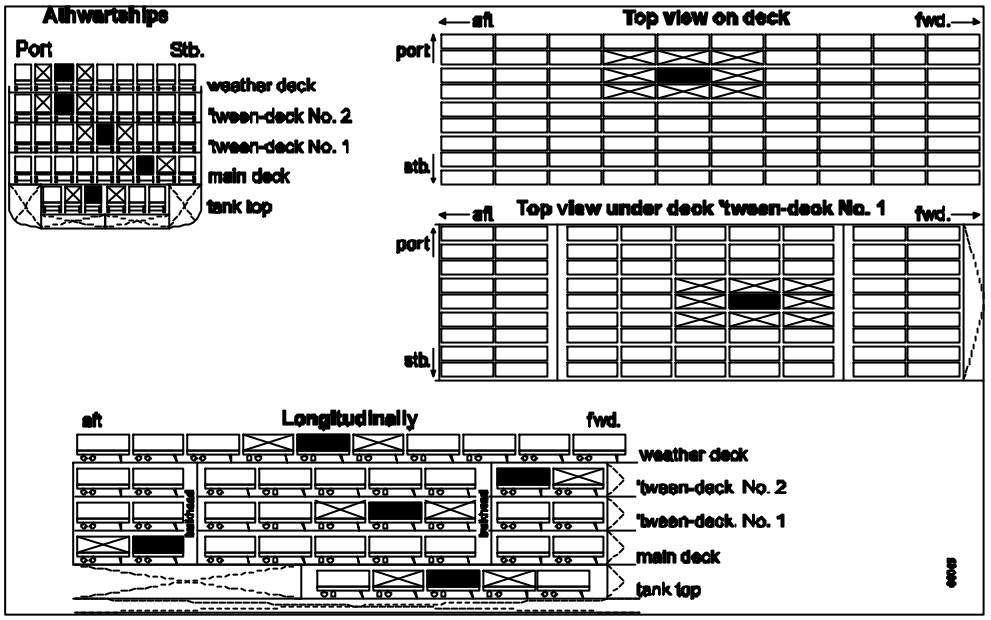
"AWAY FROM" .1		
OPEN VERSUS OPEN	**ON DECK**	**UNDER DECK**
FORE AND AFT	At least 3 metres	At least 3 metres
ATHWARTSHIPS	At least 3 metres	At least 3 metres



1 - Situation *open* versus *open*

Note: All bulkheads and decks shall be resistant to fire and liquids.

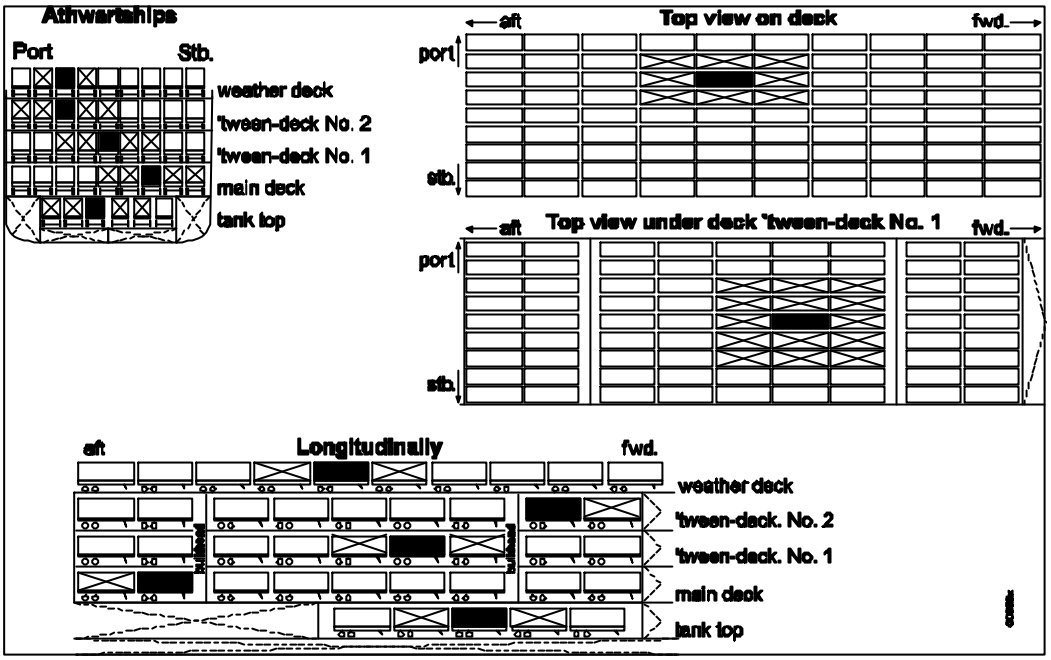
"SEPARATED FROM" .2		
CLOSED VERSUS CLOSED	**ON DECK**	**UNDER DECK**
FORE AND AFT	At least 6 metres	At least 6 metres or ONE bulkhead
ATHWARTSHIPS	At least 3 metres	At least 3 metres or ONE bulkhead



2 - Situation *closed* versus *closed*

Note: All bulkheads and decks shall be resistant to fire and liquids.

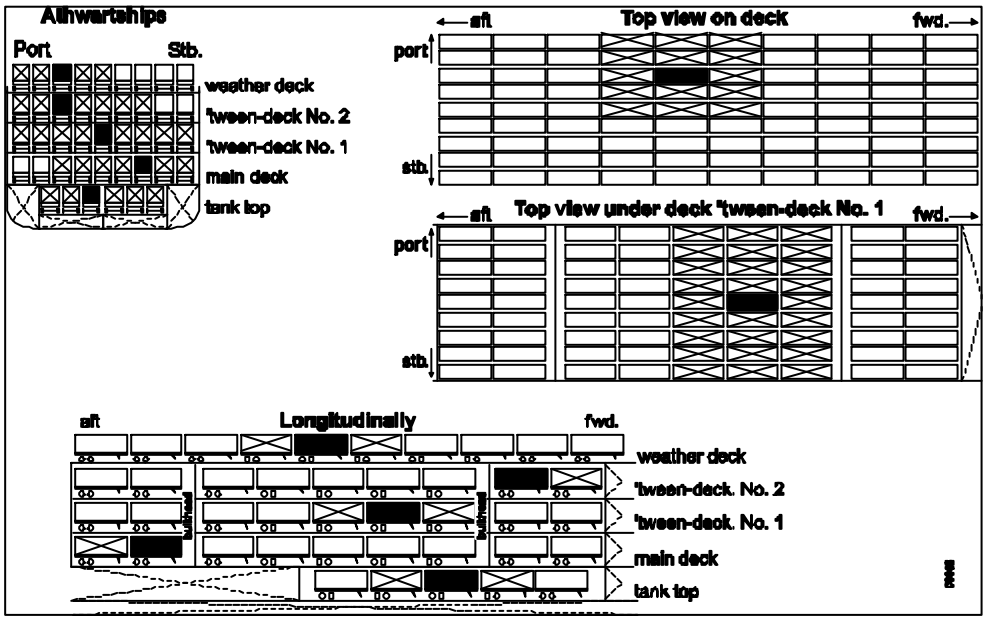
"SEPARATED FROM" .2		
CLOSED VERSUS OPEN	**ON DECK**	**UNDER DECK**
FORE AND AFT	At least 6 metres	At least 6 metres or ONE bulkhead
ATHWARTSHIPS	At least 3 metres	At least 6 metres or ONE bulkhead



2 - Situation *closed* versus *open*

Note: All bulkheads and decks shall be resistant to fire and liquids.

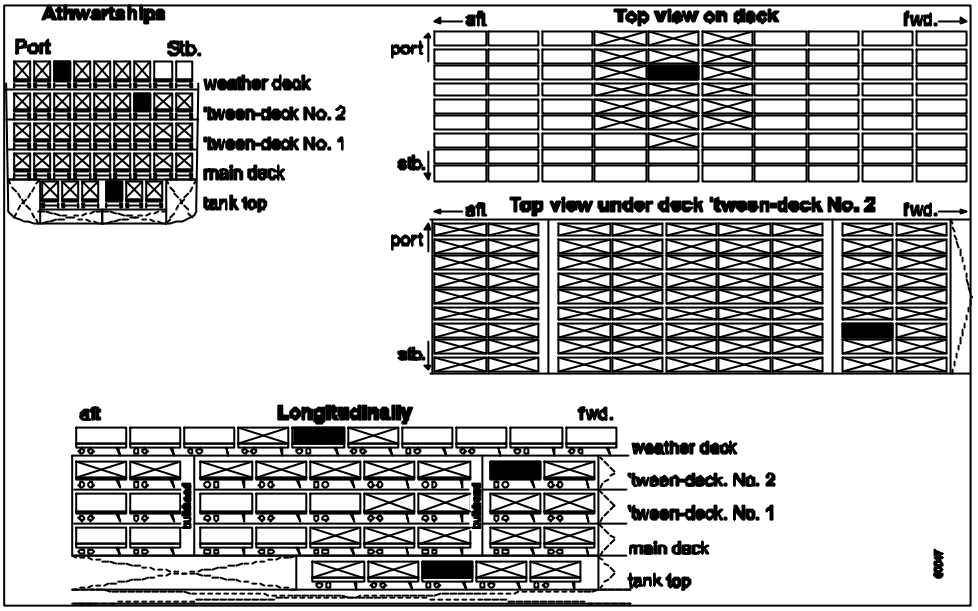
"SEPARATED FROM" .2		
OPEN VERSUS OPEN	**ON DECK**	**UNDER DECK**
FORE AND AFT	At least 6 metres	At least 12 metres or ONE bulkhead
ATHWARTSHIPS	At least 6 metres	At least 12 metres or ONE bulkhead



2 - Situation *open* versus *open*

Note: All bulkheads and decks shall be resistant to fire and liquids.

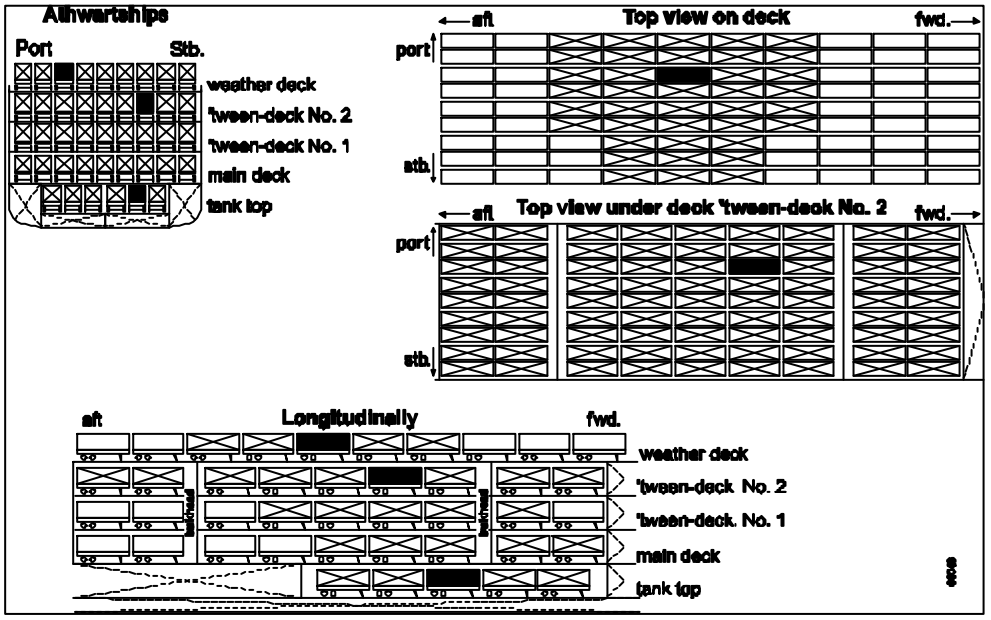
"SEPARATED BY A COMPLETE COMPARTMENT OR HOLD FROM" .3		
CLOSED VERSUS CLOSED	**ON DECK**	**UNDER DECK**
FORE AND AFT	At least 12 metres	At least 24 metres + deck
ATHWARTSHIPS	At least 12 metres	At least 24 metres + deck



3 - Situation *closed* versus *closed*

Note: All bulkheads and decks shall be resistant to fire and liquids.

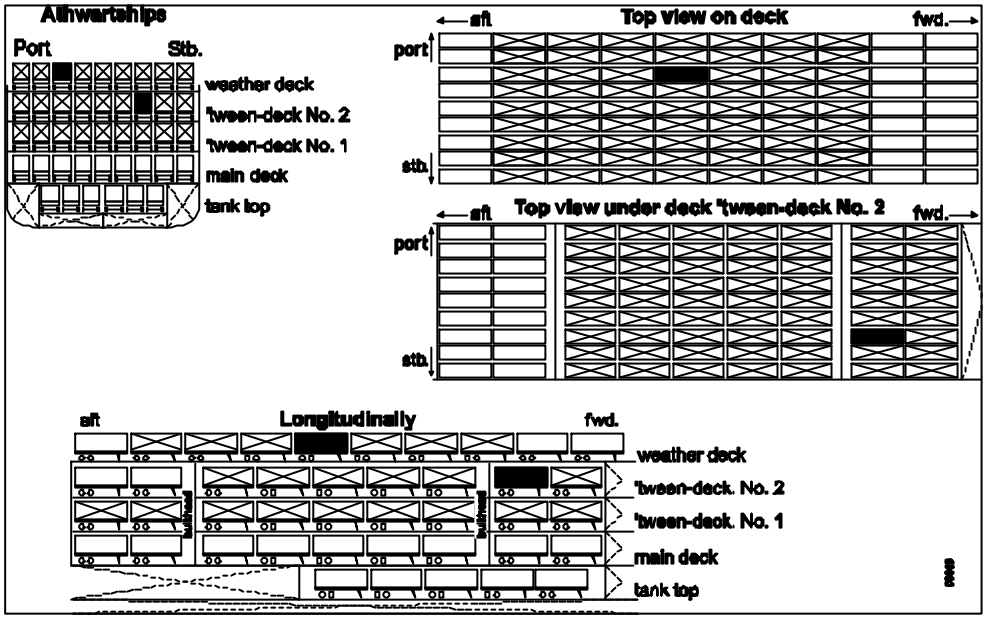
"SEPARATED BY A COMPLETE COMPARTMENT OR HOLD FROM" .3		
CLOSED VERSUS OPEN	**ON DECK**	**UNDER DECK**
FORE AND AFT	At least 24 metres	At least 24 metres + deck
ATHWARTSHIPS	At least 24 metres	At least 24 metres + deck



3 - Situation *closed* versus *open*

Note: All bulkheads and decks shall be resistant to fire and liquids.

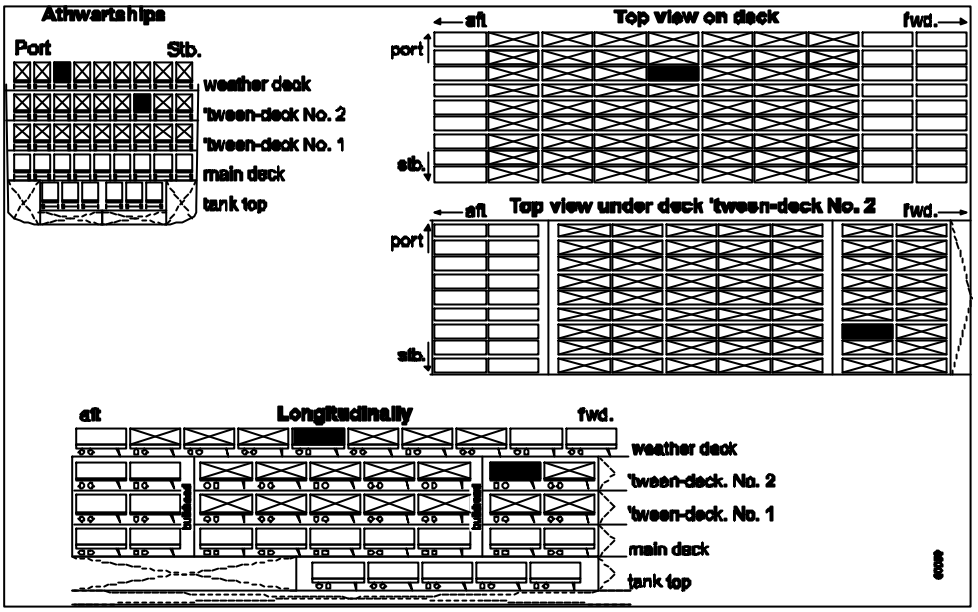
"SEPARATED BY A COMPLETE COMPARTMENT OR HOLD FROM" .3		
OPEN VERSUS OPEN	**ON DECK**	**UNDER DECK**
FORE AND AFT	At least 36 metres	Two decks or TWO bulkheads
ATHWARTSHIPS	**Prohibited**	**Prohibited**



3 - Situation *open* versus *open*

Note: All bulkheads and decks shall be resistant to fire and liquids.

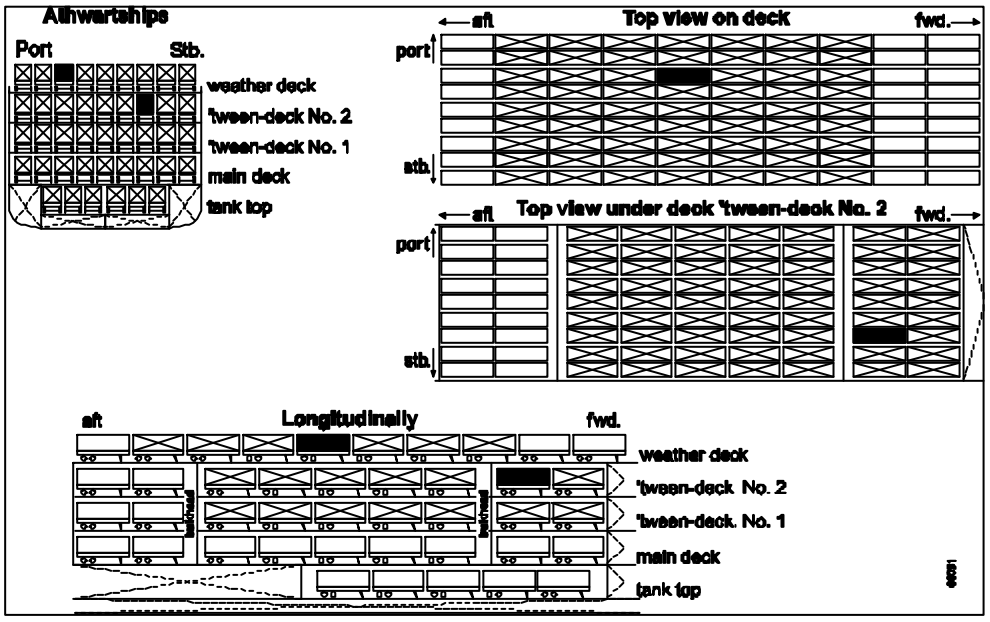
"SEPARATED LONGITUDINALLY BY AN INTERVENING COMPLETE COMPARTMENT OR HOLD FROM" .4		
CLOSED VERSUS CLOSED	**ON DECK**	**UNDER DECK**
FORE AND AFT	At least 36 metres	Two bulkheads or at least 36 metres + two decks
ATHWARTSHIPS	**Prohibited**	**Prohibited**



4 - Situation *closed* versus *closed*

Note: All bulkheads and decks shall be resistant to fire and liquids.

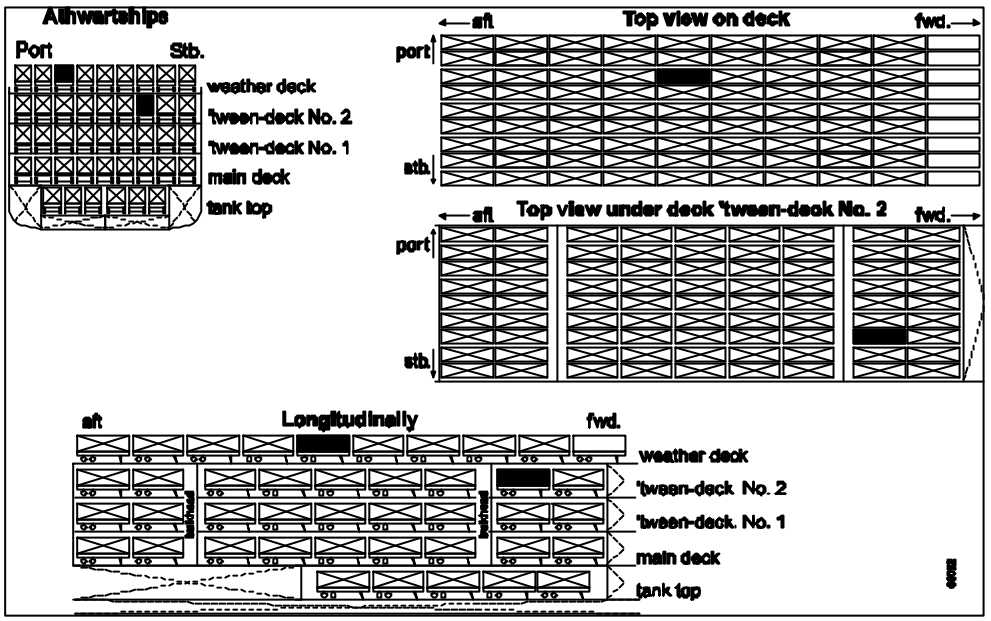
"SEPARATED LONGITUDINALLY BY AN INTERVENING COMPLETE COMPARTMENT OR HOLD FROM" .4		
CLOSED VERSUS OPEN	**ON DECK**	**UNDER DECK**
FORE AND AFT	At least 36 metres	At least 48 m including TWO bulkheads
ATHWARTSHIPS	**Prohibited**	**Prohibited**



4 - Situation *closed* versus *open*

Note: All bulkheads and decks shall be resistant to fire and liquids.

"SEPARATED LONGITUDINALLY BY AN INTERVENING COMPLETE COMPARTMENT OR HOLD FROM" .4		
OPEN VERSUS OPEN	**ON DECK**	**UNDER DECK**
FORE AND FAFT	At least 48 metres	**Prohibited**
ATHWARTSHIPS	**Prohibited**	**Prohibited**



4 - Situation *open* versus *open*

Note: All bulkheads and decks shall be resistant to fire and liquids.

7.2.5 Segregation in shipborne barges and on board barge-carrying ships

7.2.5.1 Applicability

7.2.5.1.1 The provisions of this subsection apply to the segregation in shipborne barges as well as the segregation between shipborne barges transported on board ships specially designed and equipped to carry such barges, see also chapter 7.6.

7.2.5.1.2 For barge-carrying ships which incorporate other cargo spaces or any other method of stowage, the appropriate subsection of this chapter shall apply to the relevant cargo space.

7.2.5.2 Segregation in shipborne barges

For segregation in shipborne barges, the appropriate subsections of this chapter shall apply.

7.2.5.3 Segregation between shipborne barges on barge-carrying ships

7.2.5.3.1 When a shipborne barge is loaded with two or more substances with different provisions for segregation, the most stringent segregation applicable shall be applied.

7.2.5.3.2 "Away from" and "separated from" require no segregation between shipborne barges.

7.2.5.3.3 "Separated by a complete compartment or hold from" means, for barge-carrying ships with vertical holds, that separate holds are required. On barge-carrying ships having horizontal barge levels, separate barge levels are required and the barges shall not be in the same vertical line.

7.2.5.3.4 "Separated longitudinally by an intervening complete compartment or hold from" means, for barge-carrying ships with vertical holds, that separation by an intervening hold or engine-room is required. On barge-carrying ships having horizontal barge levels, separate barge levels and a longitudinal separation by at least two intervening barge spaces is required.

7.2.6 Segregation between bulk materials possessing chemical hazards and dangerous goods in packaged form

7.2.6.1 Applicability

7.2.6.1.1 Unless otherwise required in this chapter or in the Dangerous Goods List, segregation between bulk materials possessing chemical hazards and dangerous goods in packaged form shall be in accordance with the following table.

7.2.6.1.2 *Segregation table*

	Dangerous goods in packaged form																
Bulk materials (classified as dangerous goods)	**CLASS**	**1.1 1.2 1.5**	**1.3 1.6**	**1.4**	**2.1**	**2.2 2.3**	**3**	**4.1**	**4.2**	**4.3**	**5.1**	**5.2**	**6.1**	**6.2**	**7**	**8**	**9**
Flammable solids	**4.1**	4	3	2	2	2	2	X	1	X	1	2	X	3	2	1	X
Substances liable to spontaneous combustion	**4.2**	4	3	2	2	2	2	1	X	1	2	2	1	3	2	1	X
Substances which, in contact with water, emit flammable gases	**4.3**	4	4	2	1	X	2	X	1	X	2	2	X	2	2	1	X
Oxidizing substances (agents)	**5.1**	4	4	2	2	X	2	1	2	2	X	2	1	3	1	2	X
Toxic substances	**6.1**	2	2	X	X	X	X	X	1	X	1	1	X	1	X	X	X
Radioactive material	**7**	2	2	2	2	2	2	2	2	2	1	2	X	3	X	2	X
Corrosive substance	**8**	4	2	2	1	X	1	1	1	1	2	2	X	3	2	X	X
Miscellaneous dangerous substances and articles	**9**	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Materials hazardous only in bulk (MHB)		X	X	X	X	X	X	X	X	X	X	X	X	3	X	X	X

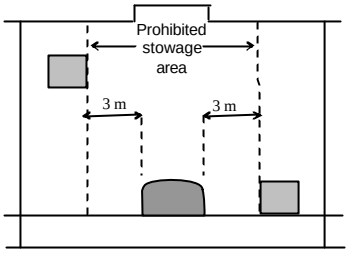
Numbers and symbols relate to the following terms, as defined in this chapter:

1 - "Away from"
2 - "Separated from"
3 - "Separated by a complete compartment or hold from"
4 - "Separated longitudinally by an intervening complete compartment or hold from"
X - The segregation, if any, is shown in the Dangerous Goods List in this Code or the individual entries in the Code of Safe Practice for Solid Bulk Cargoes.

7.2.6.1.3 ***Definitions of the segregation terms***

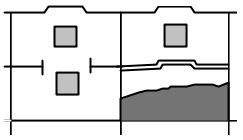
7.2.6.1.3.1 *Away from:*

Effectively segregated so that incompatible materials cannot interact dangerously in the event of an accident but may be transported in the same compartment or hold or *on deck* provided a minimum horizontal separation of 3 m, projected vertically, is provided.



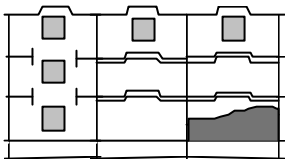
7.2.6.1.3.2 *Separated from:*

In different holds when stowed *under deck*. Provided an intervening deck is resistant to fire and liquid, a vertical separation, i.e. in different compartments, may be accepted as equivalent to this segregation.



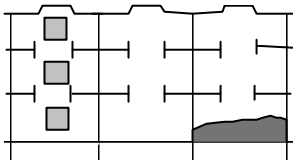
7.2.6.1.3.3 *Separated by a complete compartment or hold from:*

Either a vertical or a horizontal separation. If the decks are not resistant to fire and liquid, then only a longitudinal separation, i.e. by an intervening complete compartment, is acceptable.



7.2.6.1.3.4 *Separated longitudinally by an intervening complete compartment or hold from:*

Vertical separation alone does not meet this requirement.

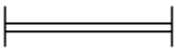


Legend

(1) Reference *bulk material*.....

(2) *Package* containing incompatible goods .....

(3) Deck resistant to fire and liquid .....



Note: Vertical lines represent transverse watertight bulkheads between cargo spaces.

7.2.7 Segregation of goods of class 1

7.2.7.1 Segregation from dangerous goods of other classes

7.2.7.1.1 Notwithstanding the segregation provisions of this chapter, AMMONIUM NITRATE ~~and sodium nitrate of class 5.1~~ (UN 1942), AMMONIUM NITRATE FERTILZERS (UN 2067), alkali metal nitrates (e.g., UN 1486) and alkaline earth metal nitrates (e.g., UN 1454) may be stowed together with blasting explosives (except EXPLOSIVE, BLASTING, TYPE C, UN 0083) provided the aggregate is treated as blasting explosives under class 1.

7.2.7.1.2 For the segregation of goods of class 1 from solid bulk materials possessing chemical hazards, see 7.2.6.

7.2.7.1.3 Dangerous goods of extreme flammability

7.2.7.1.3.1 Certain dangerous substances, because of their extreme flammability, may not be transported in a ship carrying goods of class 1. This restriction is indicated in the following Dangerous Goods List entries:

Proper Shipping Name	UN No.	Class
CARBON DISULPHIDE	1131	3
NICKEL CARBONYL	1259	6.1
PYROPHORIC LIQUID, ORGANIC, N.O.S.	2845	4.2
PYROPHORIC LIQUID, INORGANIC, N.O.S.	3194	4.2
ORGANOMETALLIC SUBSTANCE, LIQUID, PYROPHORIC	3392	4.2
ORGANOMETALLIC SUBSTANCE, LIQUID, PYROPHORIC, WATER-REACTIVE	3394	4.2

7.2.7.1.3.2 The restriction of 7.2.7.1.3.1 does not apply in the case of:

.1 goods in division 1.4, compatibility group S; or

.2 explosive articles for life-saving purposes as identified in the individual schedules, if the total net explosives mass of such articles does not exceed 50 kg per ship; or

.3 goods in compatibility groups C, D and E, if the total net explosives mass does not exceed 10 kg per ship; or

.4 articles in compatibility group G other than fireworks and those requiring special stowage, if the total net explosives mass does not exceed 10 kg per ship.

7.2.7.1.3.3 Notwithstanding the provisions of 7.2.7.1.3.1, additional quantities or types of goods of class 1 in excess of those mentioned in 7.2.7.1.3.2 may be transported together with dangerous goods of extreme flammability only with the approval of the competent authority.

7.2.7.1.3.4 Where the ship is carrying goods of class 1 and dangerous goods of extreme flammability, they are to be segregated in accordance with this chapter and care shall be taken that they are stowed in parts of the ship as remote as possible from each other.

7.2.7.2 Segregation within class 1

7.2.7.2.1 ***General***

7.2.7.2.1.1 Goods of class 1 may be stowed within the same compartment, magazine, or cargo transport unit as indicated in 7.2.7.2.1.4. In other cases, they shall be stowed in separate containers except as provided in 7.2.7.2.2 and 7.2.7.2.1.5.

7.2.7.2.1.2 When goods requiring different stowage arrangements are permitted by 7.2.7.2.1.4 to be transported in the same compartment, magazine, or cargo transport unit or vehicle, the appropriate stowage arrangement shall conform to the most stringent provisions for the entire load.

7.2.7.2.1.3 Where a mixed load of different divisions is transported within the same compartment, magazine, or cargo transport unit, the entire load shall be treated as if belonging to the hazard division in the order 1.1 (most dangerous), 1.5, 1.2, 1.3, 1.6 and 1.4 (least dangerous) and the stowage arrangement shall conform to the most stringent provisions for the entire load.

7.2.7.2.1.4 *Permitted mixed stowage for goods of class 1*

Compatibility group	A	B	C	D	E	F	G	H	J	K	L	N	S
A	X												
B		X											X
C			X	X[6]	X[6]		X[1]					X[4]	X
D			X[6]	X	X[6]		X[1]					X[4]	X
E			X[6]	X[6]	X		X[1]					X[4]	X
F						X							X
G			X[1]	X[1]	X[1]		X						X
H								X					X
J									X				X
K										X			X
L											X[2]		
N			X[4]	X[4]	X[4]							X[3]	X[5]
S		X	X	X	X	X	X	X	X	X		X[5]	X

"X" indicates that goods of the corresponding compatibility groups may be stowed in the same compartment, magazine, cargo transport unit or vehicle.

Notes:

[1] Explosive articles in compatibility group G (other than fireworks and those requiring special stowage) may be stowed with explosive articles of compatibility groups C, D and E provided no explosive substances are transported in the same compartment, magazine, cargo transport unit or vehicle.

[2] A consignment of one type in compatibility group L shall only be stowed with a consignment of the same type within compatibility group L.

[3] Different types of articles of Division 1.6, compatibility group N, may only be transported together when it is proven that there is no additional risk of sympathetic detonation between the articles. Otherwise they shall be treated as Division 1.1.

[4] When articles of compatibility group N are transported with articles or substances of compatibility groups C, D or E, the goods of compatibility group N shall be treated as compatibility group D.

[5] When articles of compatibility group N are transported together with articles or substances of compatibility group S, the entire load shall be treated as compatibility group N.

[6] Any combination of articles in compatibility groups C, D and E shall be treated as compatibility group E. Any combination of substances in compatibility groups C and D shall be treated as the most appropriate compatibility group shown in 2.1.2.3, taking into account the predominant characteristics of the combined load. This overall classification code shall be displayed on any label or placard placed on a unit load or cargo transport unit as prescribed in 5.2.2.2.2.

7.2.7.2.1.5 Cargo transport units carrying different goods of class 1 do not require segregation from each other provided 7.2.7.2.1 and 7.2.7.2.2 authorize the goods to be transported together. Where this is not permitted by 7.2.7.2.1.4, cargo transport unit shall be "separated from" one another.

7.2.7.2.2 ***Segregation on deck***

When goods in different compatibility groups are transported on deck, they shall be stowed not less than 6 m apart unless their mixed stowage is allowed according to 7.2.7.2.1.4.

7.2.7.2.3 ***Segregation in single-hold ships***

In a single-hold ship carrying dangerous goods other than those of class 1, segregation shall be as for larger ships except that:

.1 Goods in Division 1.1 or 1.2 of compatibility group B may be stowed in the same hold as substances of compatibility group D provided:

- the net explosives mass of goods of compatibility group B does not exceed 50 kg; and
- such goods are stowed in a steel magazine which is stowed at least 6 m from the substances of compatibility group D.

.2 Goods in Division 1.4 of compatibility group B may be stowed in the same hold as substances of compatibility group D provided they are separated either by a distance of at least 6 m or by a steel division.

7.2.7.3 Segregation from non-dangerous goods

7.2.7.3.1 In general, it is not necessary to segregate goods of class 1 from other non-dangerous cargo.

7.2.7.3.2 Mail, baggage, personal effects and household effects, however, shall not be stowed in the same compartment, or in compartments immediately above or below goods of class 1 other than those in compatibility group S.

7.2.7.3.3 Where goods of class 1 are stowed against an intervening bulkhead, any mail on the other side of the bulkhead shall be stowed "away from" it, preferably with the intervening space filled by other non-dangerous cargo.

7.2.8 Segregation provisions for goods of class 4.1 and class 5.2

.1 Segregation as for class 1, Division 1.3, shall be applied for packages carrying a subsidiary risk label of class 1.

7.2.9 Segregation for goods of class 7

7.2.9.1 Radioactive material shall be segregated sufficiently from crew and passengers. The following values for dose shall be used for the purpose of calculating segregation distances or radiation levels:

(a) for crew in regularly occupied working areas, a dose of 5 mSv in a year;

(b) for passengers, in areas where the passengers have regular access, a dose of 1 mSv in a year to the critical group, taking account of the exposures expected to be delivered by all other relevant sources and practices under control.

7.2.9.2 Radioactive material shall be sufficiently segregated from undeveloped photographic film. The basis for determining segregation distances for this purpose shall be that the radiation exposure of undeveloped photographic film due to the transport of radioactive material be limited to 0.1 mSv per consignment of such film.

7.2.9.3 Category II-YELLOW or III-YELLOW packages or overpacks shall not be transported in spaces occupied by passengers, except those exclusively reserved for couriers specially authorized to accompany such packages or overpacks.

7.2.9.4 Any group of packages, overpacks, and freight containers containing fissile material stored in transit in any one storage area shall be so limited that the total sum of the criticality safety indexes in the group does not exceed 50. Each group shall be stored so as to maintain a spacing of at least 6 m from other such groups.

7.2.9.5 Where the total sum of the criticality safety indexes on board a conveyance or in a freight container exceeds 50, as permitted in the table under 7.1.14.5.4, storage shall be such as to maintain a spacing of at least 6 m from other groups of packages, overpacks or freight containers containing fissile material or other conveyances carrying radioactive material.

7.2.9.6 Any departure from the segregation provisions shall be approved by the competent authority of the flag State of the ship and, when requested, by the competent authority at each port of call.

7.2.9.7 The segregation requirements specified in 7.2.9.1 may be established in one of the following two ways:

- By following the segregation tables (I and III hereafter) in respect of living quarters or spaces regularly occupied by persons. Table III includes comprehensive provisions which are of general applicability. Table I provides simplified information which is applicable to certain ship sizes, or
- By demonstration that, for the following indicated exposure times, the direct measurement of the radiation level in regularly occupied spaces and living quarters is less than:

for the crew:
0.0070 mSv/h up to 700 hours in a year, or
0.0018 mSv/h up to 2750 hours in a year; and

for the passengers:
0.0018 mSv/h up to 550 hours in a year,

taking into account any relocation of cargo during the voyage. In all cases, the measurements of radiation level must be made and documented by a suitably qualified person.

7.2.9.8 The radiation exposure of undeveloped photographic film and plates shall be based upon a single-voyage exposure of 0.1 mSv. One of the segregation tables (II and III hereafter) shall be followed. Table III includes comprehensive provisions which are of general applicability. Table II provides simplified information which is applicable to certain ship sizes and voyage durations only.

7.2.9.9 As an alternative to the use of tables II and III, separation distances may be estimated by the use of the nomograph in 7.2.9.10. This nomograph will be particularly useful in cases where stowage factors (cargo density or thickness of cargo) are significantly different from the figures given in tables II and III.

TABLE I
CLASS 7 - Radioactive material
Simplified segregation table for persons

Sum of transport indices (TI)	**Segregation distance of radioactive material from passengers and crew**			
	General cargo ship[1]		**Ferry etc.[2]**	**Offshore support vessel[3]**
	Break-bulk (metres)	**Containers (TEUs)[4]**		
Up to 10	6	1	Stow at bow or stern furthest from living quarters and regularly occupied work areas	Stow at stern or at platform midpoint
More than 10 but not more than 20	8	1	as above	as above
More than 20 but not more than 50	13	2	as above	not applicable
More than 50 but not more than 100	18	3	as above	not applicable
More than 100 but not mor e than 200	26	4	as above	not applicable
More than 200 but not more than 400	36	6	as above	not applicable

[1] General cargo, break-bulk or ro-ro container ship of 150 m minimum length.

[2] Ferry or cross-channel, coastal and inter-island ship of 100 m minimum length.

[3] Offshore support vessel of 50 m minimum length. (In this case the practical maximum sum of TIs carried is 20).

[4] TEU means "20 ft Equivalent Unit" (this is equivalent to a standard freight container of 6m nominal length).

TABLE II

CLASS 7 - Radioactive material

Simplified segregation table for photographic films and plates

<table>
<tr><th rowspan="2">Sum of Transport indices (TI)</th><th colspan="5">Duration of voyage in days</th></tr>
<tr><th>Not more than 1[1,2]</th><th>More than 1 but not more than 4[1,2]</th><th>More than 4 but not more than 10[2]</th><th>More than 10 but not more than 30[2]</th><th>More than 30 but not more than 50[2]</th></tr>
<tr><td>Not more than 10</td><td colspan="5" rowspan="4"></td></tr>
<tr><td>More than 10 but not more than 20</td></tr>
<tr><td>More than 20 but not more than 50</td></tr>
<tr><td>More than 50 but not more than 400</td></tr>
<tr><td></td><td colspan="2">1/3 ship length</td><td colspan="3">½ ship length</td></tr>
<tr><td></td><td>¾ ship length</td><td colspan="4">1/3 ship length (shielding required)[3]</td></tr>
</table>

1 Ferry or cross-channel, coastal and inter-island ship of 100 m minimum length.

2 General cargo, break-bulk or ro-ro container ship of 150 m minimum length.

3 Shielding required in the form of intervening cargo, either as a complete layer of filled containers or as a cargo space with 6 m (minimum) carried between the film and class 7 packages.

TABLE III

CLASS 7 - Radioactive material

Segregation table in metres - Safe distances for persons and undeveloped photographic films and plates

	Minimum distance in metres from living quarters or spaces regularly occupied by persons		**Minimum distance in metres from undeveloped films and plate**																							
			1 day voyage			**2 day voyage**			**4 day voyage**			**10 day voyage**			**20 day voyage**			**30 day voyage**			**40 day voyage**			**50 day voyage**		
Cargo thick - ness, metres (unit density) / **Sum of Transport indices** *(Note(7))*	**Nil**	**1**	**Nil**	**1**	**2**	**Nil**	**1**	**2**	**Nil**	**1**	**2**	**Nil**	**1**	**2**	**Nil**	**1**	**2**	**Nil**	**1**	**2**	**Nil**	**1**	**2**	**Nil**	**1**	**2**
0.5	2	X	2	X	X	3	X	X	4	X	X	6	2	X	8	2	X	10	3	X	11	3	X	12	3	X
1	2	X	3	X	X	4	X	X	5	2	X	8	2	X	11	3	X	13	4	X	15	4	X	17	4	X
2	3	X	4	X	X	5	2	X	7	2	X	11	3	X	15	4	X	19	5	X	22	5	X	24	6	X
3	4	X	5	X	X	6	2	X	9	2	X	13	4	X	19	5	X	23	6	X	27	7	X	30	7	X
5	4	X	6	2	X	8	2	X	11	3	X	17	4	X	24	6	X	30	7	X	34	8	X	38	9	3
10	6	2	8	2	X	11	3	X	15	4	X	24	6	X	34	8	X	42	10	3	48	12	3	54	13	3
20	8	2	11	3	X	15	4	X	22	5	X	34	8	X	48	12	3	59	14	4	68	16	4	76	18	5
30	10	3	13	4	X	19	5	X	26	7	X	42	10	3	59	14	4	72	17	4	83	20	5	93	22	6
50	13	3	17	4	X	24	6	X	34	8	X	54	13	3	76	18	5	92	23	6	110	26	7	120	29	7
100	18	5	24	6	X	34	8	X	48	12	3	76	18	5	110	25	6	130	32	8	150	36	9	170	40	10
150	22	6	30	7	X	42	10	3	59	14	4	93	22	6	130	31	8	160	39	10	185	45	11	*	50	12
200	26	6	34	8	X	48	12	3	68	16	4	110	26	7	150	36	9	185	43	11	*	51	13	*	58	14
300	32	8	42	10	3	59	14	4	83	20	5	130	32	8	185	44	11	*	55	13	*	63	15	*	70	17
400	36	9	48	12	3	68	16	4	95	23	6	150	36	9	*	50	13	*	63	15	*	73	18	*	81	20

NOTES:

(1) X - indicates that thickness of screening cargo is sufficient without any additional segregation distance.

(2) By using 2 metres of intervening unit density cargo for persons, and 3 metres for films and plates, no distance shielding is necessary for any length of voyage specified.

(3) Using 1 steel bulkhead or steel deck - multiply segregation distance by 0.8. Using 2 steel bulkheads or steel decks - multiply segregation distance by 0.64.

(4) "Cargo of unit density" means cargo stowed at a density of 1 tonne per cubic metre, where density is less than this the depth of cargo specified must be increased in proportion.

(5) "Minimum distance" means the least distance in any direction, whether vertical or horizontal, from the outer surface of the nearest package.

(6) The figures in the 300 and 400 rows shall be used in those cases where the appropriate provisions of this class permit the total transport index to exceed 200.

(7) Transport indices of packages, overpacks, freight containers and tanks, as appropriate.

* Not to be carried unless screening by other cargo and bulkheads can be arranged in accordance with the other columns.

7.2.9.10 Rules for the use of the nomographs

7.2.9.10.1 When there is no intervening cargo between the radioactive material and the persons or the undeveloped photographic film or plates, calculate the safe distance as follows:

.1 for persons - use the FG scales, read off the safe separation distance in metres (Dp) on the G scale adjacent to the sum of the transport indices (N) on the F scale; and

.2 for film and plates - draw a straight line between the length of the voyage (t), I scale, and the sum of the transport indices (N), F scale; separation distance in metres (Df) will be the intersection on the H scale.

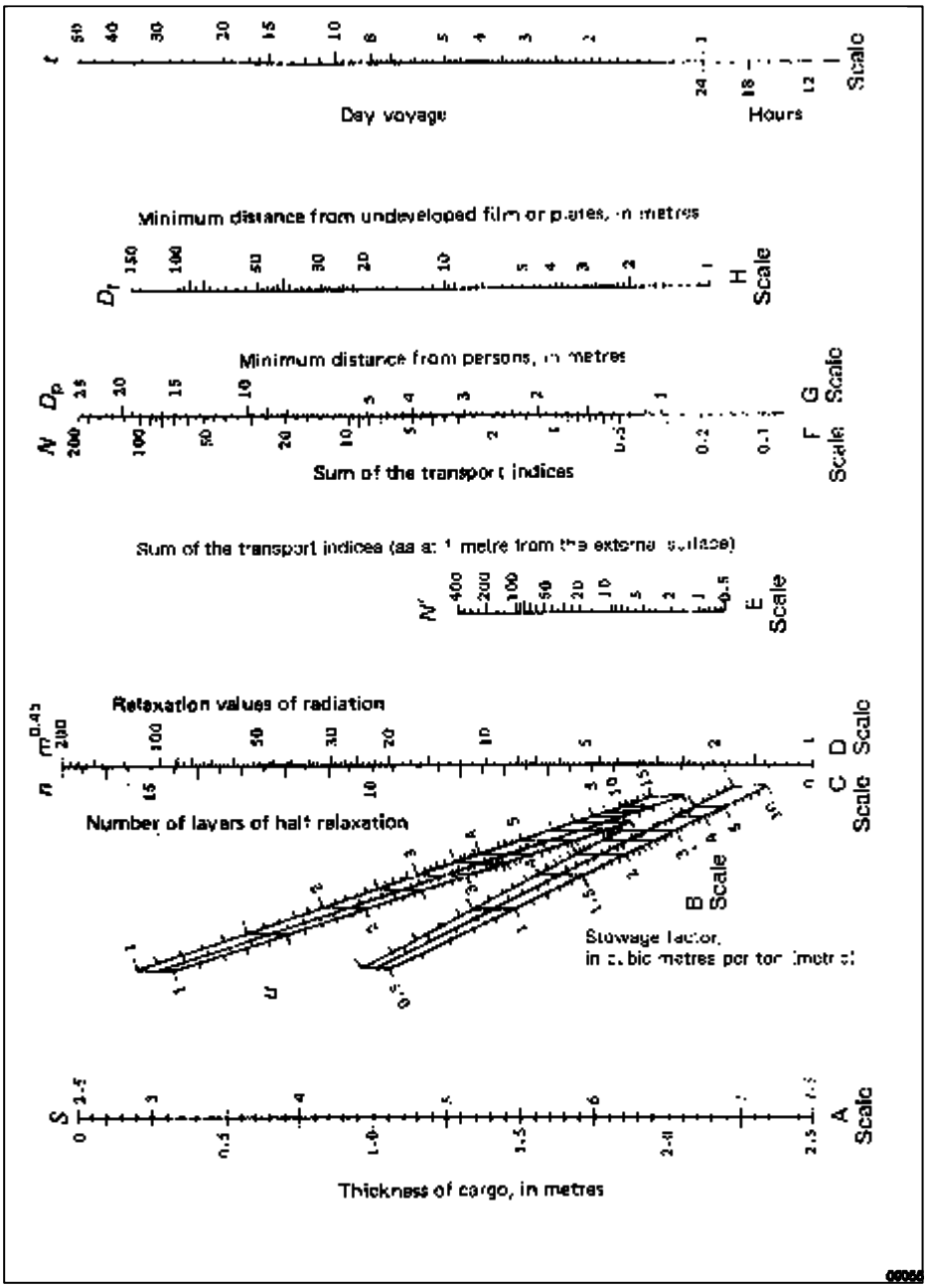
7.2.9.10.2 When there is intervening cargo between the radioactive material and the persons or undeveloped photographic film or plates, calculate the safe distance as follows:

.1 for persons - draw a straight line through the thickness of cargo (S) in metres, A scale, and the stowage factor (u), B scale, which is the cargo density, intersecting the CD scales. From this intersection draw another straight line through the value of the sum of the transport indices (as at 1 metre from the external surface), E scale, cutting the G scale at the safe separation distance figure (Dp); and

.2 for film and plates - as for persons, but from intersection on FG scales draw a straight line to the I scale; this line will cut the H scale at the separation distance for film and plates in metres (Df).

Note: For thickness of cargo (S) up to 2.5 m, use the left of A scale and the left (lower) of B scale. For S between 2.5 m and 7.5 m use the right of A scale and the right (or upper) of B scale. For S in excess of 7.5 m divide both S and u by 10 and use the corresponding parts of A and B scales. When there is no intervening bulkhead use the lower lines of B scale, for one bulkhead the middle lines, and for two bulkheads the top lines.

7.2.9.10.3 Other problems, such as estimating the minimum thickness of cargo or determining the stowage factor of intervening cargo when the thickness of the cargo is known, can also be solved by means of the nomographs.


Day voyage
Hours
Scale
Minimum distance from undeveloped film or plates, in metres
Minimum distance from persons, in metres
Sum of the transport indices
Sum of the transport indices (as at 1 metre from the external surface)
Relaxation values of radiation
Number of layers of half relaxation
Stowage factor,
in cubic metres per tonne metric
Thickness of cargo, in metres

Chapter 7.3

Special provisions in the event of an incident and fire precautions involving dangerous goods

Note: The provisions of this chapter are not mandatory.

7.3.1 General

7.3.1.1 In the event of an incident involving dangerous goods, detailed recommendations are contained in *The EmS Guide: Emergency Response Procedures for Ships Carrying Dangerous Goods*.

7.3.1.2 In the event of personnel exposure during an incident involving dangerous goods, detailed recommendations are contained in *Medical First Aid Guide for Use in Accidents Involving Dangerous Goods (MFAG).*

7.3.1.3 In the event that a package containing dangerous goods is found to be suffering from breakage or leakage while the ship is in port, the port authorities should be informed and appropriate procedures should be followed.

7.3.2 General provisions in the event of incidents

7.3.2.1 Recommendations on emergency action may differ depending on whether or not the goods are stowed *on deck* or *under deck* or whether a substance is gaseous, liquid or solid. When dealing with incidents involving flammable gases, or flammable liquids with a flashpoint of 60 °C closed cup (c.c.) or below, all sources of ignition (such as naked lights, unprotected light bulbs, electric handtools) should be avoided.

7.3.2.2 In general, the recommendation is to wash spillages *on deck* overboard with copious quantities of water and, where there is likely to be a dangerous reaction with water, from as far away as practicable. Disposal of spilt dangerous goods overboard is a matter for judgement by the master, bearing in mind that the safety of the crew has priority over pollution of the sea. If it is safe to do so, spillages and leakages of substances, articles and materials identified in this Code as MARINE POLLUTANT should be collected for safe disposal. Inert absorbent material should be used for liquids.

7.3.2.3 Toxic, corrosive and/or flammable vapours in *under deck* cargo spaces should, where possible, be dispersed before undertaking any emergency action. Where a mechanical ventilation system is used, care will be necessary to ensure that flammable vapours are not ignited.

7.3.2.4 If there is any reason to suspect leakage of these substances, entry into a hold or cargo space should not be permitted until the master or responsible officer has taken all safety considerations into account and is satisfied that it is safe to do so.

7.3.2.5 Emergency entry into the hold under other circumstances should only be undertaken by trained crew wearing self-contained breathing apparatus and other protective clothing.

7.3.2.6 A careful inspection for structural damage should be carried out after dealing with spillages of substances corrosive to steel and cryogenic liquids.

7.3.3 Special provisions for incidents involving infectious substances

7.3.3.1 If any person responsible for the transport or opening of packages containing infectious substances becomes aware of damage to or leakage from such packages, he should:

.1 avoid handling the package or keep handling to a minimum;

.2 inspect adjacent packages for contamination and put aside any that have been contaminated;

.3 inform the appropriate public health authority or veterinary authority, and provide information on any other countries of transit where persons may have been exposed to danger; and

.4 notify the consignor and/or the consignee.

7.3.3.2 Decontamination

A cargo transport unit, a bulk container or a cargo space of a ship, which has been used to transport infectious substances, shall be inspected for release of the substance before re-use. If infectious substances were released during transport, the cargo transport unit, the bulk container or the cargo space of a ship shall be decontaminated before it is re-used. Decontamination may be achieved by any means which effectively inactivates the infectious substance released.

7.3.4 Special provisions for incidents involving radioactive material

7.3.4.1 If it is evident that a package is damaged or leaking, or if it is suspected that the package may have leaked or been damaged, access to the package should be restricted and a qualified person should, as soon as possible, assess the extent of contamination and the resultant radiation level of the package. The scope of the assessment should include the package, the conveyance, the adjacent loading and unloading areas, and, if necessary, all other material which has been transported in the conveyance. When necessary, additional steps for the protection of persons, property and the environment, in accordance with provisions established by the relevant competent authority, should be taken to overcome and minimize the consequences of such leakage or damage.

7.3.4.2 Packages damaged or leaking radioactive contents in excess of allowable limits for normal conditions of transport may be removed to an acceptable interim location under supervision, but should not be forwarded until repaired or reconditioned and decontaminated.

7.3.4.3 In the event of accidents or incidents during the transport of radioactive material, emergency provisions, as established by relevant national and/or international organizations, should be observed to protect persons, property and the environment. Appropriate guidelines for such provisions are contained in the International Atomic Energy Agency's document *"Planning and Preparing for Emergency Response to Transport Accidents involving Radioactive Material"*, ~~Safety Guide No. TS-G-1.2 (ST-3) (ISBN 92-0-111602-0)~~ Safety Standard Series No. TS-G-1.2 (ST-3), IAEA, Vienna (2002).

7.3.4.4 Attention is drawn to the latest versions of both *The EmS Guide: Emergency Response Procedures for Ships Carrying Dangerous Goods* and the *Medical First Aid Guide for Use in Accidents Involving Dangerous Goods (MFAG)*.

7.3.4.5 Emergency response procedures should take into account the formation of other dangerous substances that may result from the reaction between the contents of a consignment and the environment in the event of an accident.

7.3.4.6 In the event of a package containing radioactive material suffering from breakage or leakage while the ship is in port, the port authorities should be informed and advice obtained from them or from the competent authority.* Procedures have been drawn up in many countries for summoning radiological assistance in any such emergency.

7.3.5 General fire precautions

7.3.5.1 The prevention of fire in a cargo of dangerous goods is achieved by practising good seamanship, observing in particular the following precautions:

.1 keep combustible material away from ignition sources;

.2 protect a flammable substance by adequate packing;

.3 reject damaged or leaking packages;

.4 stow packages protected from accidental damage or heating;

.5 segregate packages from substances liable to start or spread fire;

.6 where appropriate and practicable, stow dangerous goods in an accessible position so that packages in the vicinity of a fire may be protected;

.7 enforce prohibition of smoking in dangerous areas and display clearly recognizable "NO SMOKING" notices or signs; and

.8 the dangers from short-circuits, earth leakages or sparking will be apparent. Lighting and power cables and fittings should be maintained in good condition. Cables or equipment found to be unsafe should be disconnected. Where a bulkhead is required to be suitable for segregation purposes, cables and conduit penetrations of the decks and bulkheads should be sealed against the passage of gas and vapours. When stowing dangerous goods on deck, the position and design of auxiliary machinery, electrical equipment and cable runs should be considered in order to avoid sources of ignition.

7.3.5.2 Fire precautions applying to individual classes, and where necessary to individual substances, are recommended in 7.3.2 and 7.3.6 to 7.3.9 and in the Dangerous Goods List.

7.3.6 Special fire precautions for class 1

7.3.6.1

.1 The greatest risk in the handling and transport of goods of class 1 is that of fire from a source external to the goods, and it is vital that any fire is detected and extinguished before it can reach such goods. Consequently, it is essential that fire precautions, fire-fighting measures and equipment are of a high standard and ready for immediate application and use.

* Reference is made to chapter 7.9 and the IAEA list of national competent authorities responsible for approvals and authorizations in respect of the transport of radioactive material. The list is updated annually.

.2 Compartments containing goods of class 1 and adjacent cargo spaces should be provided with a fire-detection system. If such spaces are not protected by a fixed fire-extinguishing system, they should be accessible for fire-fighting operations.

.3 No repair work should be carried out in a compartment containing goods of class 1. Special care should be exercised in carrying out repairs in any adjacent space. No welding, burning, cutting, or riveting operations involving the use of fire, flame, spark, or arc-producing equipment should be carried out in any space other than machinery spaces and workshops where fire-extinguishing arrangements are available, except in any emergency and, if in port, with prior authorization of the port authority.

7.3.7 Special fire precautions for class 2

7.3.7.1 Effective ventilation should be provided to remove any leakage of gas from within the cargo space or spaces, bearing in mind that some gases are heavier than air and may accumulate in dangerous concentrations in the lower part of the ship.

7.3.7.2 Measures should be taken to prevent leaking gases from penetrating into any other part of the ship.

7.3.7.3

.1 If there is any reason to suspect leakage of a gas, entry into cargo spaces or other enclosed spaces should not be permitted until the master or responsible officer has taken all safety considerations into account and is satisfied that it is safe to do so. Emergency entry under other circumstances should only be undertaken by trained crew wearing self-contained breathing apparatus, and protective clothing when recommended, and always under the supervision of a responsible officer.

.2 Leakage from pressure receptacles containing flammable gases may give rise to explosive mixtures with air. Such mixtures, if ignited, may result in explosion and fire.

7.3.8 Special fire precautions for class 3

7.3.8.1 Flammable liquids give off flammable vapours which, especially in an enclosed space, form explosive mixtures with air. Such vapours, if ignited, may cause a "flashback" to the place in which the substances are stowed. Due regard should be paid to the provision of adequate ventilation to prevent accumulation of vapours.

7.3.9 Special fire precautions and fire fighting for class 7

7.3.9.1 The radioactive contents of Excepted, Industrial, and Type A packages are so restricted that, in the event of an accident and damage to the package, there is a high probability that any material released, or shielding efficiency lost, would not give rise to such radiological hazard as to hamper fire-fighting or rescue operations.

7.3.9.2 Type B(U) packages, Type B(M) packages and Type C packages are designed to be strong enough to withstand severe fire without significant loss of contents or dangerous loss of radiation shielding.

Chapter 7.4

Transport of cargo transport units on board ships

7.4.1 Applicability

7.4.1.1 The provisions of this chapter apply to the transport, loading and unloading of dangerous goods in cargo transport units on board ships.

7.4.2 General provisions for cargo transport units

7.4.2.1 Cargo transport units used for the transport of dangerous goods shall be of adequate strength to resist the possible stress imposed by the conditions of the services in which they are employed. They shall be adequately maintained.

7.4.2.2 Unless otherwise specified, the applicable provisions of the International Convention for Safe Containers (CSC) 1972, as amended, shall be followed for the use of any cargo transport unit which meets the definition of a "container" within the terms of that convention.

7.4.2.3 The International Convention for Safe Containers does not apply to offshore containers that are handled in open seas. The design and testing of offshore containers shall take into account the dynamic lifting and impact forces that may occur when a container is handled in open seas in adverse weather and sea conditions. The requirement for such containers shall be determined by the approving competent authority. Such provisions shall be based on MSC/Circ.860 "Guidelines for the Approval of Offshore Containers handled in Open Seas". Such containers shall be clearly marked with the words "OFFSHORE CONTAINER" on the safety approval plate.

7.4.2.4 Loading of cargo transport units on board ships

7.4.2.4.1 Before loading, cargo transport units used for the transport of dangerous goods shall be examined for external signs of damage, leakage or sifting of contents. Any cargo transport unit found to be damaged, leaking or sifting shall not be accepted for shipment until repairs have been effected or damaged packages have been removed.

7.4.2.5 Ventilation[*] and condensation

7.4.2.5.1 Unless otherwise specified in this Code, the provisions concerning ventilation that are set out in various places in this Code shall be taken to refer to the space aboard the ship in which cargo transport units are stowed and shall not be interpreted to require ventilation into the cargo transport unit.

7.4.2.5.2 When, for any reason, it is necessary to open the doors of a cargo transport unit, the nature of the contents and the possibility that leakage may have caused an unsafe concentration of toxic or flammable vapours or have produced an oxygen-enriched or -depleted atmosphere shall be considered. If such a possibility exists, then the interior of the cargo transport unit shall be approached with caution.

[*] For cargo transport units under fumigation, see ~~3.5 of the IMO publication Recommendations on the Safe Use of Pesticides in Ships.~~ MSC.1/Circ.1265 Recommendations on the safe use of pesticides in ships applicable to the fumigation of cargo transport units

7.4.2.5.3 Where class 4.3 substances are to be packed in a cargo transport unit, the possibility that the cargo transport unit could suffer from heavy condensation on the internal surface shall be kept in mind. The degree of such condensation is dependent upon the amount of moisture contained within the closed cargo transport unit, in addition to the temperature differences experienced. The risk is minimized if the moisture content of the packaging and securing materials is kept low.

7.4.2.6 Heat Protection

7.4.2.6.1 Where it is required that dangerous goods shall be kept as cool as practicable, this requirement shall be applied to the cargo transport unit as a whole.

Note: The surface of a cargo transport unit can heat rapidly when in direct sunlight in nearly windless conditions and the cargo may also become heated.

7.4.3 Fumigated units

7.4.3.1 Cargo transport units under fumigation (fumigated units) shall be carried on board ships in accordance with the provisions of this Code relevant to the Proper Shipping Name FUMIGATED UNIT and UN number UN 3359 shown in the Dangerous Goods List in chapter 3.2. Particular transport conditions concerning UN 3359 are set out in special provision 910 in chapter 3.3.

7.4.3.2 A fumigated unit shall not be allowed on board until a sufficient period has elapsed to attain a reasonable uniform gas concentration throughout the cargo in it. Because of variations due to types and amounts of fumigants and commodities and temperature levels, the period between fumigant application and loading of the fumigated unit on board the ship shall be determined by the competent authority. Twenty-four hours is normally sufficient for this purpose. Unless the doors of a fumigated unit have been opened to allow the fumigant gas(es) and residues to be completely ventilated or the unit has been mechanically ventilated, the shipment shall conform to the provisions of this Code concerning UN 3359. Ventilated containers shall be marked with the date of ventilation on the fumigated warning sign(s). When the fumigated goods or materials have been unloaded, the fumigation warning sign(s) shall be removed.

7.4.3.3 The master shall be informed prior to the loading of a fumigated unit.

7.4.4 Stowage of cargo transport units in cargo spaces other than ro-ro cargo spaces

7.4.4.1 The following provisions shall apply to the stowage of cargo transport units on board ships in cargo spaces other than ro-ro cargo spaces:

.1 A cargo transport unit packed or loaded with flammable gases or liquids having a flashpoint of less than 23 °C c.c. ~~or less~~ shall only be stowed *under deck* together in the same cargo space with refrigerated or heated cargo transport units, the coolant or heating equipment of which could provide a possible source of ignition, if:

- the cooling compartment and the cooling or heating equipment of the cargo transport units comply with 7.7.3; and
- the design, construction and equipment of the cargo space complies with the provisions of regulation II-2/19 of SOLAS 74, as amended, or regulation II-2/54 of SOLAS 74, as amended by the resolutions indicated in II-2/1.2.1, as applicable,

otherwise the stowage is restricted to *on deck only* .

.2 A temperature-controlled cargo transport unit packed or loaded with flammable gases or liquids having a flashpoint ~~below~~ of less than 23 °C c.c. shall only be stowed under deck if the provisions under .1 above are met; otherwise the stowage is restricted to on deck only.

.3 A cargo transport unit packed or loaded with flammable gas or flammable liquid having a flashpoint ~~below~~ of less than +23 °C c.c. transported on deck shall be stowed "away from" (as defined in 7.2.2.2.1) possible sources of ignition. In the case of container ships, a distance equivalent to one container space athwartships away from possible sources of ignition applied in any direction will satisfy this requirement.

7.4.4.2 Additional provisions for hatchless container holds

7.4.4.2.1 Dangerous goods shall only be transported in or vertically above hatchless container holds if:

.1 The dangerous goods are permitted for under deck stowage as specified in the Dangerous Goods List; and

.2 The hatchless container hold is in full compliance with the provisions of regulation II-2/19 of SOLAS 74, as amended, or regulation II-2/54 of SOLAS 74, as amended by the resolutions indicated in II-2/1.2.1, as applicable.

7.4.5 Stowage of cargo transport units in ro-ro cargo spaces

7.4.5.1 Loading and unloading operations on each vehicle deck shall take place under the supervision of either a working party consisting of officers and other crew members or responsible persons appointed by the master.

7.4.5.2 Passengers and other unauthorized persons shall be excluded from vehicle decks on which dangerous goods have been loaded. All doors leading directly to these decks shall be securely closed during the voyage and notices or signs prohibiting entrance to such decks shall be conspicuously displayed.

7.4.5.3 During the voyage, access to such decks by passengers and other unauthorized persons shall only be permitted when such persons are accompanied by an authorized crew member.

7.4.5.4 The transport of dangerous goods shall be prohibited on any vehicle deck on which the foregoing provisions cannot be met.

7.4.5.5 Closing arrangements for the openings between ro-ro cargo spaces and machinery and accommodation spaces shall be such as to avoid the possibility of dangerous vapours and liquids entering such spaces. Such openings shall normally be kept securely closed when dangerous cargo is on board, except to permit access by authorized persons or for emergency use.

7.4.5.6 Ro-ro ships may carry dangerous goods in cargo transport units or stowed in the conventional way on vehicle decks, in cargo holds or on weather decks. The provisions for such stowage shall be in compliance with the relevant provisions laid down elsewhere in this Code.

7.4.5.7 Dangerous goods required to be carried *on deck only* shall not be carried on closed vehicle decks, but may be carried on open vehicle decks when authorized by the competent authority concerned.

7.4.5.8 Flammable gases or liquids having a flashpoint of less than 23 °C c.c. ~~or less~~ shall not be stowed in a closed ro-ro space or special category space unless:

- the design, construction and equipment of the space comply with the provisions of regulation II-2/19 of SOLAS 74, as amended, or regulation II-2/54 of SOLAS 74, as amended by the resolutions indicated in II-2/1.2.1, as applicable, and the ventilation system is operated to maintain at least six air changes per hour; or
- the ventilation system of the space is operated to maintain at least ten air changes per hour and non-certified safe electrical systems in the space are capable of being isolated by means other than removal of fuses in the event of failure of the ventilation system or any other circumstance likely to cause accumulation of flammable vapours.

Otherwise stowage is restricted to *on deck only*.

7.4.5.9 The provisions in this paragraph are without prejudice to relevant ventilation requirements of SOLAS 74, as amended.

In stowage conditions defined in 7.1.1, if continuous ventilation is impracticable in a closed ro-ro cargo space other than a special category space, ventilation fans shall be operated daily for a limited period, as weather permits. In any case, prior to discharge, the fans shall be operated for a reasonable period. The ro-ro cargo space shall be proved gas-free at the end of the period. When the ventilation is not continuous, electrical systems which are not certified safe shall be isolated.

7.4.5.10 Certain dangerous goods are required "to be stowed in a mechanically ventilated space". When such goods are transported in a closed ro-ro cargo space or a special category space, this space shall be mechanically ventilated.

7.4.5.11 Cargo transport units packed or loaded with flammable gases or liquids having a flashpoint of less than 23 °C c.c. ~~or less~~ and transported on deck shall be stowed "away from" (as defined in 7.2.2.2.1.1) possible sources of ignition.

7.4.5.12 Mechanically operated refrigeration or heating equipment fitted to any cargo transport unit shall not be operated during the voyage when stowed in a closed ro-ro cargo space or a special category space.

7.4.5.13 Electrically operated refrigeration or heating equipment fitted to any cargo transport unit stowed in a closed ro-ro cargo space or special category space shall not be operated when flammable gases or liquids having a flashpoint of less than 23 °C c.c. ~~or less~~ may be present in the cargo transport unit or in the same space, unless:

- the design, construction and equipment of the space comply with the provisions of regulation II-2/19 of SOLAS 1974, as amended, or regulation II-2/54 of SOLAS 1974, as amended by the resolutions indicated II-2/1.2.1, as applicable, and the refrigeration or heating equipment of the cargo transport unit complies with paragraph 7.7.3; or

- the ventilation system of the space is operated to maintain at least ten air changes per hour and all electrical systems in the space are capable of being isolated by means other than removal of fuses in the event of ventilation failure or other circumstance likely to cause accumulation of flammable vapours.

7.4.5.14 Stowage of portable tanks, road tank vehicles and railway tank wagons containing dangerous goods shall be in accordance with the provisions of the Dangerous Goods List and chapter 7.1.

7.4.5.15 The master of a ship carrying dangerous goods on vehicle decks shall ensure that, during loading and unloading operations and during the voyage, regular inspections of these decks are made by an authorized crew member or responsible person in order to achieve early detection of any hazard.

7.4.6 Transport of dangerous goods of class 1 in cargo transport units

7.4.6.1 Special structural provisions may be applicable to cargo transport units used for the stowage of class 1 dangerous goods. The special provisions that are applicable are indicated under "stowage" in the Dangerous Goods List.

7.4.6.2 In ships other than specially fitted container ships, cargo transport units shall be stowed in the bottom layer only.

7.4.6.3 Loading and unloading cargo transport units packed with goods of class 1 on to a ship needs special care, and the precautions detailed in the IMO *Recommendations on the Safe Transport of Dangerous Cargoes and Related Activities in Port Areas* should be observed.

7.4.6.4 Structural serviceability of freight containers and vehicles packed with goods of class 1

7.4.6.4.1 Freight containers used for substances requiring magazine stowage type "A" shall be fitted with a close-boarded floor and shall have a non-metallic lining.

7.4.6.4.2 Freight containers and vehicles shall not be offered for the transport of goods of class 1 other than division 1.4 unless the container or the vehicle is structurally serviceable, as witnessed by a current International Convention for Safe Containers (CSC) approval plate (applicable to freight containers only) and a detailed visual examination, as follows:

.1 prior to packing a freight container or vehicle with goods of class 1, it shall be checked to ensure it is free of any residue of previous cargo and is structurally serviceable, and that the interior floor and walls are free from protrusions;

.2 "structurally serviceable" means the freight container or vehicle shall not have major defects in its structural components, e.g., top and bottom side rails, top and bottom end rails, door sill and header, floor cross-members, corner posts, and corner fittings in a freight container. Major defects are: dents or bends in the structural members greater than 19 mm in depth, regardless of length: cracks or breaks in structural members; more than one splice (e.g., a lapped splice) in top or bottom end rails or door headers; more than two splices in any one top or bottom side rail; or any splice in a door sill or corner post; door hinges and hardware that are seized, twisted, broken, missing or otherwise inoperative; gaskets and seals that do not seal; or, for freight containers, any distortion of the overall configuration great enough to prevent proper alignment of handling equipment, mounting and securing on chassis or vehicle, or insertion into ship's cells:

.3 in addition, deterioration in any component of the freight container or vehicle, regardless of the material of construction, such as rusted-out metal in sidewalls or disintegrated fibreglass, is unacceptable. Normal wear, however, including oxidation (rust), slight dents and scratches and other damage that does not affect serviceability or the weathertight integrity of the units, is acceptable; and

.4 for free-flowing powdery substances of 1.1C, 1.1D, 1.1G, 1.3C and 1.3G and fireworks of 1.1G, 1.2G and 1.3G, the floor of the freight container shall have a non-metallic surface or covering.

Chapter 7.5

Packing of cargo transport units

7.5.1 General provisions for cargo transport units

7.5.1.1 Cargo transport units used for the transport of dangerous goods shall be of adequate strength to resist the possible stress imposed by the conditions of the services in which they are employed. They shall be adequately maintained.

7.5.1.2 Unless otherwise specified, the applicable provisions of the International Convention for Safe Containers (CSC) 1972, as amended, shall be followed for the use of any cargo transport unit which meets the definition of a "container" within the terms of that Convention.

7.5.1.3 The International Convention for Safe Containers does not apply to offshore containers that are handled in open seas. The design and testing of offshore containers shall take into account the dynamic lifting and impact forces that may occur when a container is handled in open seas in adverse weather and sea conditions. The requirement for such containers shall be determined by the approving competent authority. Such provisions should be based on MSC/Circ.860 "Guidelines for the Approval of Offshore Containers handled in Open Seas". Such containers shall be clearly marked with the words "OFFSHORE CONTAINER" on the safety approval plate.

7.5.2 Packing of cargo transport units*

7.5.2.1 Packages shall be examined and any found to be damaged, leaking or sifting shall not be packed into a cargo transport unit. Care shall be taken to see that excessive water, snow, ice or foreign matter adhering to packages is removed before packing into a cargo transport unit.

7.5.2.2 Packaged dangerous goods and any other goods within the same cargo transport unit shall be tightly packed and adequately braced and secured for the voyage. The packages shall be packed in such a way that there will be a minimum likelihood of damage to fittings during transport. Such fittings on packages shall be adequately protected.

7.5.2.3 When a dangerous goods consignment forms only part of the load of a cargo transport unit, it shall, preferably, be packed so as to be accessible (such as packing near the doors of the cargo transport unit).

7.5.2.4 If the doors of a cargo transport unit are locked, the means of locking shall be such that, in cases of emergency, the doors can be opened without delay.

7.5.2.5 Before being packed, cargo transport units shall be examined visually for damage and if there is evidence of material damage the cargo transport unit shall not be packed.

7.5.2.6 Irrelevant markings, labels, placards, orange panels, signs and marine pollutant marks shall be removed or masked before packing a cargo transport unit.

* [5] See IMO/ILO/UNECE Guidelines for Packing of Cargo Transport Units.

7.5.2.7 Those responsible for the packing of dangerous goods into a cargo transport unit shall provide a "container/vehicle packing certificate": see chapter 5.4. This document is not required for tanks.

7.5.2.8 Cargo transport units shall be loaded so that the cargo is uniformly distributed consistent with the referenced guidelines.*

7.5.3 Empty cargo transport units

7.5.3.1 After a cargo transport unit carrying dangerous goods has been unpacked or unloaded, precautions shall be taken to ensure that there is no contamination likely to make the cargo transport unit dangerous.

7.5.3.2 After unpacking or unloading corrosive substances, particular attention shall be paid to cleaning, as residues may be highly corrosive to the metal structures.

* See IMO/ILO/UNECE Guidelines for Packing of Cargo Transport Units.

Chapter 7.6

Transport of dangerous goods in shipborne barges on barge-carrying ships

7.6.1 Applicability

7.6.1.1 Because of the structural differences of barge-carrying ships from other ships, this chapter contains alternative and special or additional provisions for the transport of packaged dangerous goods or solid bulk materials possessing chemical hazards on these ships.

7.6.1.2 The provisions of this chapter are applicable to shipborne barges which carry packaged dangerous goods or solid bulk materials possessing chemical hazards while aboard barge-carrying ships or barge feeder vessels.

7.6.1.3 The provisions of this chapter are not intended to apply to shipborne barges designed for transport aboard barge-carrying ships while the shipborne barges are operating independently of the barge-carrying ship.

7.6.1.4 Barges used for the shipborne transport of packaged dangerous goods or solid bulk materials possessing chemical hazards shall be of proper design and adequate strength to resist the stresses imposed by the conditions of the services in which they are employed and they shall be adequately maintained. Shipborne barges shall be approved in accordance with provisions for certification of a recognized classification society, or any organization approved by and acting on behalf of the competent authority of the countries concerned.

7.6.1.5 Except as otherwise specified in this chapter, all the provisions laid down for each substance in this Code shall apply to the transport of packaged dangerous goods or solid bulk materials possessing chemical hazards in shipborne barges on barge-carrying ships.

7.6.1.6 The provisions of this chapter apply only to shipborne barges of steel construction. Packaged dangerous goods or solid bulk materials possessing chemical hazards shall only be transported in shipborne barges constructed of other materials, including the hatch covers, under conditions specified by the competent authority concerned.

7.6.2 Definitions

7.6.2.1 *Loading and unloading,* for the purpose of this chapter, means the placement or removal of cargo into or out of a shipborne barge.

7.6.2.2 *Stowage* means, for the purposes of this chapter, the placement of a shipborne barge aboard the barge-carrying ship or barge feeder vessel.

7.6.3 Permitted shipments

7.6.3.1 Packaged dangerous goods or solid bulk materials possessing chemical hazards shall only be transported aboard shipborne barges on barge-carrying ships when they are packaged in accordance with chapter 4 except as provided in 7.6.4.2, 7.6.4.3 and 7.6.4.4 below.

7.6.3.2 Portable tanks (tank containers) containing liquid dangerous goods in bulk aboard shipborne barges shall comply with the applicable provisions of chapter 4.

7.6.3.3 Certain dry dangerous goods in bulk may be transported in shipborne barges; this is indicated in the packing instructions in chapter 4.

7.6.3.4 Because of their particular hazard, certain commodities may not be shipped or may only be shipped in shipborne barges aboard barge-carrying ships under conditions specified in this Code or by the competent authority concerned after taking due account of the circumstances of the intended voyage.

7.6.4 Barge loading

7.6.4.1 Packages shall be examined and any found to be damaged, leaking or sifting shall not be loaded into a shipborne barge. Care shall be taken to ensure that excessive water, snow, ice or foreign matter adhering to packages shall be removed before loading into a shipborne barge.

7.6.4.2 Packages containing dangerous goods, portable tanks, cargo transport units and any other goods within a shipborne barge shall be properly immobilized by stowage and adequately braced and secured for the voyage. Packages shall be loaded in such a way that there will be a minimum likelihood of damage to them and to any fittings during transport. Fittings on packages or portable tanks (tank containers) shall be adequately protected.

7.6.4.3 Where solid bulk materials possessing chemical hazards are transported in shipborne barges, it shall be ensured that at all times the cargo is evenly distributed, properly trimmed and secured.

7.6.4.4 Shipborne barges into which packaged dangerous goods or solid bulk materials possessing chemical hazards are to be loaded shall be examined visually for hull or hatch cover damage which could impair watertight integrity. If there is evidence of such damage, the shipborne barge may not be used for the transport of packaged dangerous goods or solid bulk materials possessing chemical hazards and shall not be loaded.

7.6.4.5 For segregation on shipborne barges and on board barge-carrying ships, see 7.2.5.

7.6.5 Stowage of shipborne barges

7.6.5.1 Stowage of shipborne barges carrying packaged dangerous goods or solid bulk materials possessing chemical hazards aboard barge-carrying ships shall be as required for the substance in the Dangerous Goods List in this Code. When a shipborne barge is loaded with more than one substance, and the stowage locations differ for the substances (i.e. some substances require *on deck* stowage while other substances require *under deck* stowage), the shipborne barge containing these substances shall be stowed on deck.

7.6.6 Ventilation and condensation

7.6.6.1 The provisions concerning ventilation that are specified for various substances or materials in this Code shall be taken to apply to the cargo in the shipborne barge in which that substance or material is loaded.

7.6.6.2 Provision shall be made to ensure that shipborne barges stowed under deck and loaded with cargoes requiring ventilation because of their dangerous nature are ventilated to the extent necessary.

7.6.6.3 Where class 4.3 substances or materials hazardous only in bulk (MHB only*) having similar properties or being subject to the same segregation provisions or substances liable to spontaneous heating are transported in shipborne barges, the possibility that the shipborne barges could suffer from heavy condensation on the internal surface shall be kept in mind. The degree of such condensation is dependent upon the amount of moisture contained within a closed shipborne barge, in addition to the temperature variances experienced. The risk is minimized if the moisture content of packagings and securing materials is kept low.

7.6.6.4 When, for any reason, it is necessary to remove the hatch cover from a shipborne barge, the nature of the contents and the possibility that leakage may have caused an unsafe concentration of toxic or flammable vapour or have produced an oxygen-rich or oxygen-depleted atmosphere shall be considered.

7.6.6.5 Shipborne barges containing a residue of a dangerous cargo or shipborne barges loaded with empty packagings still containing a residue of a dangerous substance shall comply with the same provisions as barges loaded with the substance itself.

7.6.6.6 For barges containing solid goods under fumigation, see 7.4.3.

7.6.7 Fire protection

7.6.7.1 Shipborne barges loaded with significant quantities of packaged dangerous goods or solid bulk materials possessing chemical hazards shall be stowed as far as practicable from accommodation and navigational areas.

7.6.7.2 Where it is recommended that a cargo shall be kept as cool as practicable, this provision shall be applied to the shipborne barge as a whole, unless suitable alternative measures are provided.

7.6.7.3 When packaged dangerous goods or solid bulk materials possessing chemical hazards are loaded in shipborne barges aboard barge-carrying ships having the capability of providing fixed fire-fighting systems or fire-detection systems to individual barges, care shall be taken to ensure that these systems are attached to the shipborne barge and operating properly.

7.6.7.4 When packaged dangerous goods or solid bulk materials possessing chemical hazards are loaded in shipborne barges aboard barge-carrying ships having fixed fire-fighting systems or fire-detection systems installed in individual barge holds, care shall be taken to ensure that the ventilation closures on the shipborne barges are open, to permit the fire-fighting medium to enter the barges in case of fire.

7.6.7.5 When ventilation ducts are provided to individual shipborne barges, the ventilation fans shall be secured when fire-fighting medium is introduced into the hold to permit the medium to enter the shipborne barges.

7.6.8 Transport of goods of class 1 in shipborne barges

7.6.8.1 General stowage provisions for goods of class 1 are given in 7.1.7.3. Stowage arrangements under deck and on deck are described in 7.1.7.4 and 7.1.7.5 respectively.

7.6.8.2 Fixed magazines may be built within a shipborne barge. Cargo transport units may also be used as magazines within such a barge.

* Reference is made to the Code of Safe Practice for Solid Bulk Cargoes, 2004, as may be amended.

7.6.8.3 Shipborne barges may be used for the transport of all types of goods of class 1. When carrying those requiring special stowage, the following shall apply:

.1 goods in compatibility group G or H shall be in cargo transport units unless other arrangements are approved by the competent authority; and

.2 goods in compatibility group K or L shall be in steel magazines at all times.

7.6.8.4 Goods of different compatibility groups in class 1 may not be stowed within the same shipborne barge unless 7.2.7.2.1 and 7.2.7.2.2 would permit them to be stowed together.

Chapter 7.7

Temperature control provisions

7.7.1 Preamble

7.7.1.1 If the temperature of certain substances (such as organic peroxides and self-reactive substances) exceeds a value which is typical of the substance as packaged for transport, a self-accelerating decomposition, possibly of explosive violence, may result. To prevent such decomposition, it is necessary to control the temperature of such substances during transport. Other substances not requiring temperature control for safety reasons may be transported under controlled temperature conditions for commercial reasons.

7.7.1.2 The provisions for the temperature control of certain specified substances are based on the assumption that the temperature in the immediate surroundings of the cargo does not exceed 55°C during transport and attains this value for a relatively short time only during each period of 24 hours.

7.7.1.3 If a substance which is not normally temperature-controlled is transported under conditions where the temperature may exceed 55°C, it may require temperature control; in such cases, adequate measures shall be taken.

7.7.2 General provisions

7.7.2.1 A self-accelerating decomposition temperature (SADT)* shall be determined in order to decide if a substance shall be subjected to temperature control during transport. The relationship between SADT, the control temperature and the emergency temperature is as follows:

Type of receptacle	SADT*	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
Portable tanks	< 50 °C	10 °C below SADT	5 °C below SADT

7.7.2.2 The substances for which a control temperature and an emergency temperature are indicated in 2.4.2.3.2.3 or 2.5.3.2.4 shall be transported under conditions of temperature control such that the temperature of the immediate surroundings of the cargo does not exceed the control temperature.

7.7.2.3 The actual transport temperature may be lower than the control temperature but shall be selected so as to avoid dangerous separation of phases.

7.7.2.4 During transport, the temperature (see 7.7.3) shall be monitored at regular intervals (at least once every four to six hours) and the temperature readings shall be logged. If, during transport, the control temperature is exceeded, an alerting procedure shall be initiated

* The self-accelerating decomposition temperature (SADT) shall be determined in accordance with the latest version of the United Nations Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria. Test methods for determining flammability are given in Part III, 32.4 of the United Nations Manual of Tests and Criteria. Because organic peroxides may react vigorously when heated, it is recommended to determine their flashpoint using small sample sizes such as described in ISO 3679.

involving either repair of the refrigeration machinery or an increase in the cooling capacity (such as by adding liquid or solid refrigerants). If an adequate cooling capacity is not restored, emergency procedures shall be started.

7.7.2.5 The stowage of the cargo shall be such as to ensure that, if disposal is necessary at sea, the packages or closed cargo transport unit can be jettisoned[†] with reasonable safety.

7.7.2.6 The refrigeration system shall be subjected to a thorough inspection and a test prior to the cargo transport unit being packed to ensure that all parts are functioning properly.

7.7.2.7 When a cargo transport unit is to be filled with packages containing substances having different control temperatures, all packages shall be pre-cooled to avoid exceeding the lowest control temperature.

7.7.2.7.1 In the event that non-temperature-controlled substances are transported in the same cargo transport unit as temperature-controlled substances, the package(s) containing substances that require refrigeration shall be stowed in such a way as to be readily accessible from the door(s) of the cargo transport unit.

7.7.2.7.2 If substances with different control temperatures are loaded in the cargo transport unit, the substances with the lowest control temperature shall be stowed in the most readily accessible position from the doors of the cargo transport unit.

7.7.2.7.3 The door(s) shall be capable of being opened readily in case of emergency so that the package(s) can be removed. The carrier shall be informed about the location of the different substances within the unit. The cargo shall be secured to prevent packages from falling when the door(s) is (are) opened. The packages shall be securely stowed so as to allow for adequate air circulation throughout the cargo.

7.7.2.8 The master shall be provided with operating instructions for the refrigeration system, procedures to be followed in the event of loss of control and instructions for regular monitoring of operating temperatures. Spare parts shall be carried for the systems described in 7.7.3.2.3 and 7.7.3.2.4 so that they are available for emergency use shall the refrigeration system malfunction during transport.

7.7.2.9 In cases where it may not be possible to carry specific substances according to the general provisions, full details of the proposed method of shipment shall be submitted to the competent authority concerned for approval.

7.7.3 Methods of temperature control

7.7.3.1 The suitability of a particular means of temperature control for transport depends on a number of factors. Among those to be considered are:

.1 the control temperature(s) of the substance(s) to be transported;

.2 the difference between the control temperature and the anticipated ambient temperature conditions;

[†] See also General Principles for Ship Reporting Systems and Ship Reporting Requirements, including Guidelines for Reporting Incidents involving Dangrous Goods, Harmful Substances and/or Marine Pollutants (Resolution A.851 (20)).

.3 the effectiveness of the thermal insulation of the cargo transport unit. The overall heat-transfer coefficient shall not be more than 0.4 $W/(m^2.K)$ ~~$W/m^2.K$~~ for cargo transport units and 0.6 $W/(m^2.K)$ ~~$W/m^2.K$~~ for tanks; and

.4 the duration of the voyage.

7.7.3.2 Suitable methods for preventing the control temperature being exceeded are, in order of increasing capability:

.1 thermal insulation, provided that the initial temperature of the substance is sufficiently below the control temperature;

.2 thermal insulation with a coolant system, provided that:

- an adequate quantity of non-flammable coolant (such as liquid nitrogen or solid carbon dioxide), allowing a reasonable margin for delay, is carried;
- liquid oxygen or air is not used as a coolant;
- there is uniform cooling effect even when most of the coolant has been consumed; and
- the need to ventilate the cargo transport unit before entering is clearly indicated by a warning on the door(s);

.3 single mechanical refrigeration, provided that the unit is thermally insulated and, for substances with a flashpoint lower than the sum of the emergency temperature plus 5°C, explosion-proof electrical fittings are used within the cooling compartment to prevent ignition of flammable vapours from the substances;

.4 combined mechanical refrigeration system and coolant system, provided that:

- the two systems are independent of one another; and
- the provisions of 7.7.3.2.2 and 7.7.3.2.3 are met;

.5 dual mechanical refrigeration system, provided that:

- apart from the integral power supply unit, the two systems are independent of one another;
- each system alone is capable of maintaining adequate temperature control; and
- for substances with a flashpoint lower than the sum of the emergency temperature plus 5°C, explosion-proof electrical fittings are used within the coolant compartment to prevent ignition of flammable vapours from the substances.

7.7.3.3 The refrigeration equipment and its controls shall be readily and safely accessible and all electrical connections weatherproof. Inside the cargo transport unit, the temperature shall be measured continuously. The measurement shall be taken in the air-space of the unit, using two measuring devices independent of each other. The type and place of the measuring devices shall be selected so that their results are representative of the actual temperature in the cargo. At least one of the two measurements shall be recorded in such a manner that temperature changes are easily detectable.

7.7.3.4 If substances are transported with a control temperature less than +25°C, the cargo transport unit shall be equipped with a visible and audible alarm effectively set at no higher than the

control temperature. The alarms shall work independently from the power supply of the refrigeration system.

7.7.3.5 If an electrical supply is necessary for the cargo transport unit to operate the refrigeration or heating equipment, it shall be ensured that the correct connecting plugs are fitted. For under-deck stowage, plugs shall, as a minimum, be of an IP 55 enclosure in accordance with IEC Publication 529*, with the specification for electrical equipment of temperature class T4 and explosion group IIB. However, when stowed on deck, these plugs shall be of an IP 56 enclosure in accordance with IEC Publication 529*.

7.7.4 Special provisions for self-reactive substances (class 4.1) and organic peroxides (class 5.2)

7.7.4.1 For self-reactive substances (class 4.1) identified by UN Nos. 3231 and 3232 and organic peroxides (class 5.2) identified by UN Nos. 3111 and 3112, one of the following methods of temperature control described in 7.7.3.2 shall be used:

.1 the methods referred to under 7.7.3.2.4 or 7.7.3.2.5; or

.2 the method referred to under 7.7.3.2.3 when the maximum ambient temperature to be expected during transport is at least 10 °C below the control temperature.

7.7.4.2 For self-reactive substances (class 4.1) identified by UN Nos. 3233 to 3240 and organic peroxides (class 5.2) identified by UN Nos. 3113 to 3120, one of the following methods shall be used:

.1 the methods referred to under 7.7.3.2.4 or 7.7.3.2.5;

.2 the method referred to under 7.7.3.2.3 when the maximum ambient temperature to be expected during transport does not exceed the control temperature by more than 10 °C; or

.3 for short international voyages only (see 1.2.1), the methods referred to under 7.7.3.2.1 and 7.7.3.2.2 when the maximum ambient temperature to be expected during transport is at least 10 °C below the control temperature.

7.7.5 Special provisions applicable to the transport of substances stabilized by temperature control (other than self-reactive substances and organic peroxides)

7.7.5.1 These provisions apply to the transport of substances:

.1 the Proper Shipping Name of which contains the word "STABILIZED"; and

.2 for which the SADT (see 7.7.2.1) as presented for transport in the package, IBC or tank is 50 °C or lower.

When chemical inhibition is not used to stabilize a reactive substance which may generate dangerous amounts of heat and gas, or vapour, under normal transport conditions, these substances shall be transported under temperature control. These provisions do not apply to substances which are stabilized by the addition of chemical inhibitors such that the SADT is greater than 50 °C.

* Reference is made to the Recommendations published by the International Electrotechnical Commission (IEC) and, in particular, to Publication 529 - Classification of Degrees of Protection provided by Enclosures.

7.7.5.2 The provisions in 7.7.2.1 to 7.7.2.3 and 7.7.3 apply to substances meeting criteria .1 and .2 in 7.7.5.1.

7.7.5.3 The actual transport temperature may be lower than the control temperature (see 7.7.2.1) but shall be selected so as to avoid dangerous separation of phases.

7.7.5.4 When these substances are transported in IBCs or portable tanks, the provisions for a SELF-REACTIVE LIQUID TYPE F, TEMPERATURE CONTROLLED shall apply. For transport in IBCs, see the special provisions in 4.1.7.2 and the "Additional provisions" in packing instruction IBC520; for transport in portable tanks, see the additional provisions in 4.2.1.13.

7.7.5.5 If a substance the Proper Shipping Name of which contains the word "STABILIZED" and which is not normally required to be transported under temperature control is transported under conditions where the temperature may exceed 55 °C, it may require temperature control.

7.7.6 Special provisions for flammable gases or liquids having a flashpoint ~~below~~ of less than 23 °C c.c. transported under temperature control

7.7.6.1 When flammable gases or liquids having a flashpoint ~~below~~ of less than 23 °C c.c. are packed or loaded in a cargo transport unit equipped with a refrigerating or heating system, the cooling or heating equipment shall comply with 7.7.3.

7.7.6.2 When flammable liquids having a flashpoint ~~below~~ of less than 23 °C c.c. and not requiring temperature control for safety reasons are transported under temperature control conditions for commercial reasons, explosion-proof electrical fittings are not required, when the substances are pre-cooled to and transported at a control temperature of at least 10 °C below the flashpoint. In case of failure of the refrigerating system, the system shall be disconnected from the power supply.

7.7.7 Special provisions for vehicles transported on ships

7.7.7.1 Insulated, refrigerated and mechanically refrigerated vehicles shall conform to the provisions of 7.7.3 and 7.7.4 or 7.7.5 as appropriate. In addition, the refrigerating appliance of a mechanically refrigerated vehicle shall be capable of operating independently of the engine used to propel the vehicle.

7.7.8 Approval

7.7.8.1 The competent authority may approve that less stringent means of temperature control may be used or that artificial refrigeration may be dispensed with under conditions of transport such as short international voyages or low ambient temperatures.

Chapter 7.8

Transport of wastes

7.8.1 Preamble

Wastes, which are dangerous goods, shall be transported in accordance with the relevant international recommendations and conventions and, in particular, where it concerns transport by sea, with the provisions of this Code.

7.8.2 Applicability

7.8.2.1 The provisions of this chapter are applicable to the transport of wastes by ships and shall be considered in conjunction with all other provisions of this Code.

7.8.2.2 Substances, solutions, mixtures or articles containing or contaminated with radioactive material are subject to the applicable provisions for radioactive material in class 7, and are not to be considered as wastes for the purposes of this chapter.

7.8.3 Transboundary movements under the Basel Convention*

7.8.3.1 Transboundary movement of wastes is permitted to commence only when:

.1 notification has been sent by the competent authority of the country of origin, or by the generator or exporter through the channel of the competent authority of the country of origin, to the country of final destination; and

.2 the competent authority of the country of origin, having received the written consent of the country of final destination stating that the wastes will be safely incinerated or treated by other methods of disposal, has given authorization to the movement.

7.8.3.2 In addition to the transport document required in chapter 5.4, all transboundary movements of wastes shall be accompanied by a waste movement document from the point at which a transboundary movement commences to the point of disposal. This document shall be available at all times to the competent authorities and to all persons involved in the management of waste transport operations.

7.8.3.3 The transport of solid wastes in bulk in cargo transport units and road vehicles is only permitted with the approval of the competent authority of the country of origin.

7.8.3.4 In the event that packages and cargo transport units containing wastes are suffering from leakage or spillage, the competent authorities of the countries of origin and destination shall be immediately informed and advice on the action to be taken obtained from them.

7.8.4 Classification of wastes

7.8.4.1 A waste containing only one constituent which is a dangerous substance subject to the provisions of this Code shall be regarded as being that particular substance. If the

* Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal (1989).

concentration of the constituent is such that the waste continues to present a hazard inherent in the constituent itself, it shall be classified according to the criteria of the applicable classes.

7.8.4.2 A waste containing two or more constituents which are dangerous substances subject to the provisions of this Code shall be classified under the applicable class in accordance with their dangerous characteristics and properties as described in 7.8.4.3 and 7.8.4.4.

7.8.4.3 The classification according to the dangerous characteristics and properties shall be carried out as follows:

.1 determination of the physical and chemical characteristics and physiological properties by measurement or calculation followed by classification according to the criteria of the applicable class(es); or

.2 if the determination is not practicable, the waste shall be classified according to the constituent presenting the predominant hazard.

7.8.4.4 In determining the predominant hazard, the following criteria shall be taken into account:

.1 if one or more constituents fall within a certain class and the waste presents a hazard inherent in these constituents, the waste shall be included in that class; or

.2 if there are constituents falling under two or more classes, the classification of the waste shall take into account the order of precedence applicable to dangerous substances with multiple hazards set out in 2.0.3.

7.8.4.5 Wastes harmful to the marine environment only shall be transported under the class 9 entries for ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., UN 3082, or ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., UN 3077, with the addition of the word "WASTE". However, this is not applicable to substances which are covered by individual entries in this Code.

7.8.4.6 Wastes not otherwise subject to the provisions of this Code but covered under the Basel Convention may be transported under the class 9 entries for ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., UN 3082, or ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., UN 3077.

Chapter 7.9

Exemptions, approvals and certificates

7.9.1 Exemptions

Note 1 The provisions of this section do not apply to exemptions mentioned in chapters 1 to 7.8 of this Code (e.g., exemptions for limited quantities in 3.4.7) and to approvals (including permits, authorizations or agreements) and certificates which are referred to in chapters 1 to 7.8 of this Code. For the said approvals and certificates, see 7.9.2.

Note 2 The provisions of this section do not apply to class 7. For consignments of radioactive material for which conformity with any provision of this Code applicable to class 7 is impracticable, refer to ~~1.1.3.4.~~ 1.5.4.

7.9.1.1 Where this Code requires that a particular provision for the transport of dangerous goods shall be complied with, a competent authority or competent authorities (port State of departure, port State of arrival or flag State) may authorize any other provision by exemption if satisfied that such provision is at least as effective and safe as that required by this Code. Acceptance of an exemption authorized under this section by a competent authority not party to it is subject to the discretion of that competent authority. Accordingly, prior to any shipment covered by the exemption, the recipient of the exemption shall notify other competent authorities concerned.

7.9.1.2 Competent authority or competent authorities which have taken the initiative with respect to the exemption:

.1 shall send a copy of such exemption to the International Maritime Organization which shall bring it to the attention of the Contracting Parties to SOLAS and/or MARPOL, as appropriate, and

.2 if appropriate, take action to amend the IMDG Code to include the provisions covered by the exemption.

7.9.1.3 The period of validity of the exemption shall be not more than five years from the date of authorization. An exemption that is not covered under 7.9.1.2.2 may be renewed in accordance with the provisions of this section.

7.9.1.4 A copy of the exemption shall accompany each consignment when offered to the carrier for transport under the terms of the exemption. A copy of the exemption or an electronic copy thereof shall be maintained on board each ship transporting dangerous goods in accordance with the exemption, as appropriate.

7.9.2 Approvals (including permits, authorizations or agreements) and certificates

7.9.2.1 Approvals, including permits, authorizations or agreements, and certificates referred to in chapters 1 to 7.8 of this Code and issued by the competent authority (authorities when the Code requires a multilateral approval) or a body authorized by that competent authority (e.g., approvals for alternative packaging in 4.1.3.7, approval for segregation as in 7.2.2.3 or certificates for portable tanks in 6.7.2.18.1) shall be recognized, as appropriate:

.1 by other contracting parties to SOLAS if they comply with the requirements of the International Convention for the Safety of Life at Sea (SOLAS), 1974, as amended; and /or

.2 by other contracting parties to MARPOL if they comply with the requirements of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto (MARPOL 73/78, Annex III), as amended.

7.9.3 Contact information for the main designated national competent authorities

Contact information for the main designated national competent authorities concerned is given in this paragraph[*]. Corrections to these addresses should be sent to the Organization[†].

[*] Reference is made to MSC.1/Circ.1201, as may be amended, which provides a more comprehensive listing of contact information for competent authorities and bodies.

[†] International Maritime Organization
4 Albert Embankment
London SE1 7SR
United Kingdom
Email: info@imo.org
Fax: +44 207587 3120

LIST OF CONTACT INFORMATION FOR THE MAIN DESIGNATED NATIONAL COMPETENT AUTHORITIES

Country	Contact information for the main designated national competent authority
ALGERIA	Ministère des Transports/Direction de la Marine Marchande 119 Rue Didouche Mourad Alger ALGÉRIE Telephone: +213 26061 46 Telex: 66063 DGAF DZ
AMERICAN SAMOA	Silila Patane Harbour Master Port Administration Pagopago American Samoa AMERICAN SAMOA 96799
ANGOLA	National Director Marine Safety, Shipping and Ports National Directorate of Merchant Marine and Ports Rua Rainha Ginga 74 Andar Luanda Angola Telephone: +244 239 0034/397 984 Fax: +244 231 037 Mobile: +244 924 393 36 Email: ispscode_angola@snet.co.ao
ARGENTINA	Prefectura Naval Argentina (Argentine Coast Guard) Dirección de protección ambiental Departamento de protección ambiental y mercancías peligrosas Division mercancías y residuos peligrosos Avda. Eduardo Madero 235 4º piso, Oficina 4.36 y 4.37 Buenos Aires (C1106ACC) REPÚBLICA ARGENTINA Telephone: +54 11 4318 7669 Fax: +54 11 4318 7474 Email: dpma-mp@prefecturanaval.gov.ar

Country	Contact information for the main designated national competent authority
AUSTRALIA	Manager, Ship Inspection Maritime Operations Australian Maritime Safety Authority GPO Box 2181 Canberra ACT 2601 AUSTRALIA Telephone: +61 2 6279 5048 Fax: +61 2 6279 5058 Email: psc@amsa.gov.au Website: www.amsa.gov.au
BAHAMAS	~~Bahamas Maritime Authority~~ ~~Second Fbor~~ ~~Latham House~~ ~~16 Minories~~ ~~London, EC3N 1EH~~ ~~UNITED KINGDOM~~ ~~Telephone: +44 (0)20 7264 2550~~ ~~Fax: +44 (0)20 7264 2579~~ ~~Email: tech@bahamasmaritime.com~~ The Director Bahamas Maritime Authority 120 Old Broad Street London EC2N 1AR Telephone: +44 (0) 20 7562 1300 Fax: +44 (0) 20 7614 0650 Website: www.bahamasmaritime.com
BARBADOS	Director of Maritime Affairs Ministry of Tourism and International Transport 2nd Floor Carlisle House Hincks Street Bridgetown St. Michael BARBADOS Telephone: +1 246 426 2710/3342 Fax: +1 246 426 7882 Email: ctech@sunbeach.net

Country	Contact information for the main designated national competent authority
BELGIUM	Federal Public Service Mobility and Transport Directorate-general Maritime Transport Rue du Progrès 56 1210 Brussels B-BELGIUM Telephone: +32 2 277 3500 Fax: +32 2 277 4051 Email: dg.mar@mobilit.fgov.be Website: www.mobilit.fgov.be
BELIZE	Ports Commissioner Belize Port Authority PO Box 633 Belize City BELIZE C.A. Telephone: +501 227 2540/0981 Fax: +501 227 2500
BRAZIL	Diretoria de Portos e Costas (DPC-20) Rua Teófilo Otoni No. 04 Centro Rio de Janeiro CEP 20090-070 BRAZIL Telephone: +55 21 2104 5203 Fax: +55 21 2104 5202 Email: secom@dpc.mar.mil.br
BULGARIA	~~Ministry of Transport~~ ~~Bulgarian Maritime Administration~~ ~~Directorate~~ ~~European Integration and International Affairs~~ ~~9 Diakon Ignatiy Str.~~ ~~Sofia 1000~~ ~~BULGARIA~~ ~~Telephone: +359 2 930 09 10 / 930 09 50~~ ~~Telefax: +359 2 930 09 20~~ ~~E-mail: ivalev@marad.bg~~ ~~Website: www.marad.bg~~

Country	Contact information for the main designated national competent authority
BULGARIA (continued)	Head office: Captain Petar Petrov, Director Directorate "Quality Management" Bulgarian Maritime Administration 9 Dyakon Ignatii Str. Sofia 1000 REPUBLIC OF BULGARIA Telephone: +359 2 93 00 910 / 93 00 912 Telefax: +359 2 93 00 920 Email: bma@marad.bg / petrov@marad.bg Regional offices: Harbour-Master Directorate "Maritime Administration" – Bourgas 3 "Kniaz Alexander Batemberg" Str. Bourgas 8000 REPUBLIC OF BULGARIA Telephone: +359 56 875 775 Fax: +359 56 840 064 Email: hm_bs@marad.bg Harbour-Master Directorate "Maritime Administration" – Varna 5 "Primorski" Bvd Varna 9000 REPUBLIC OF BULGARIA Telephone: +359 52 684 922 Fax: +359 52 602 378 Email: hm_vn@marad.bg
BURUNDI	Minister Ministère des Transports Postes et Télécommunications BP 2000 Bujumbura Burundi Telephone: +257 219 324 Fax: +257 217 773

Country	Contact information for the main designated national competent authority
CANADA	The Chairman Board of Steamship Inspection Transport Canada -Marine Safety Tower C, Place de Ville 330 Sparks Street, 10th Floor Ottawa, Ontario K1A ON5 CANADA Telephone: +1 613 991 3132 +1 613 991 3143 +1 613 991 3139/40 Fax: +1 613 993 8196
CAPE VERDE	The Director General Ministry of Infrastructure and Transports St. Vincente CAPE VERDE Telephone: +238 2 328 199 / 238 2 585 4643 Email: dgmp@cvtelecom.cv
CHILE	~~Dirección General del Territorio Marítimo y de Marina Mercante~~ ~~Dirección de Seguridad y Operaciones Marítimas~~ ~~Depto. Prevención de Riesgos~~ ~~Errázuriz 537~~ ~~Valparaiso~~ ~~CHILIE~~ ~~Telephone: +56 32 208256~~ ~~Fax: +56 32 208262~~ ~~Telex: 230602 DGTM CL~~ ~~330461 DGTM CK~~ Dirección General del Territorio Marítimo y de Marina Mercante Dirección de Seguridad y Operaciones Marítimas Servicio de Inspecciones Marítimas Divisón Prevención de Riesgos y Cargas Peligrosas Subida Cementerio No 300 Playa Ancha Valparaiso CHILE Telephone: +56 32 2208699 +56 32 2208654 +56 32 2208692 Email: cargaspeligrosas@directemar.cl

Country	Contact information for the main designated national competent authority
CHINA	Maritime Safety Administration People's Republic of China 11 Jianguomen Nei Avenue Beijing 100736 CHINA Telephone: +86 10 6529 2588 +86 10 6529 2218 Fax: +86 10 6529 2245 Telex: 222258 CMSAR CN
COMOROS	Ministre D'Etat Ministère du Développement des Infrasturctures des Postes et des Télécommunication et des Transport Internationaux Moroni Union des Comores Telephone: +269 744 287/735 794 Fax: +269 734 241/834 241 Mobile: +269 340 248 Email: houmedms@yahoo.fr
CROATIA	Ministry of Maritime Affairs Transport and Communication Marine Safety Division Prisavlje 14 1000 Zagreb REPUBLIC OF CROATIA Telephone: +385 1 611 5966 Fax: +385 1 611 5968 Email: pomorski-promet@zg.tel.hr
CUBA	Ministerio del Transporte Dirección de Seguridad e Inspección Marítima Boyeros y Tulipán Plaza Ciudad de la Habana CUBA Telephone: +53 7 881 6607 +53 7 881 9498 Fax: +53 7 881 1514 Email: dsim@mitrans.transnet.cu

Country	Contact information for the main designated national competent authority
CYPRUS	Department of Merchant Shipping Ministry of Communications and Works Kylinis Street Mesa Geitonia CY-4007 Lemesos P.O. Box 56193 CY-3305 Lemesos CYPRUS Telephone: +357 5 848 100 Fax: +357 5 848 200 Telex: 2004 MERSHIP CY Email: dms@cytanet.com.cy
CZECH REPUBLIC	Ministry of Transport of the Czech Republic Navigation and Waterways Division Nábr. L. Svobody 12 110 15 Praha 1 CZECH REPUBLIC Telephone: +42 (0)2 230 312 25 Fax: +42 (0)2 248 105 96 Telex: +42 (0)2 12 10 96 Domi C
DENMARK	Danish Maritime Authority P.O. Box 2605 Vermundsgade 38C 2100 Copenhagen Ø DENMARK Telephone: +45 39 17 44 00 Fax: +45 39 17 44 01 Email: SFS@dma.dk
DJIBOUTI	Director of Maritime Affairs Ministère de L'Equipement et des Transports P.O. Box 59 Djibouti Telephone: +253 357 913 Fax: +253 351 538/253 931/355 879
ECUADOR	Dirección General de la Marine Mercante y del Litoral P.O. Box 7412 Guayaquil ECUADOR Telephone: +593 4 526 760 Fax: +593 4 324 246 Telex: 04 3325 DIGMER ED

Country	Contact information for the main designated national competent authority
EQUATORIAL GUINEA	The Director General (Maritime Affairs) Ministro de Transportes, Technologia, Correos y Telecommunicaciones Malabo REPUBLICA DE GUINEA ECUATORIAL Telephone: +240 275 406 Fax: +240 092 618
ERITREA	Director General Department of Maritime Transport Ministry of Transport and Communications Eritrea Telephone: +291 1 121 317/189 156/185 251 Fax: +291 1 184 690 / 186 541 Email: motcrez@eol.com.er
ESTONIA	Estonian Maritime Administration Maritime Safety Division Valge 4 EST-11413 Tallinn ESTONIA Telephone: +372 6205 700/715 Fax: +372 6205 706 Email: mot@vta.ee
ETHIOPIA	Director General Ministry of Transport and Communications P.O. Box 2504 Addis Ababa Ethiopia Telephone: +251 11 551 02 44 Fax: +251 11 551 07 15
FINLAND	Finnish Maritime Administration P.O. Box 171 FI-00181 Helsinki FINLAND Telephone: +358 20 448 1 Fax: +358 20 448 4500 +358 20 448 4336 Email: ~~keskushallinto@fma.fi~~ kirjaamo@fma.fi

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GAMBIA	~~The Managing Director~~ ~~Gambia Ports Authority~~ ~~Banjul~~ ~~THE GAMBIA~~ ~~Telephone: +220 27266~~ ~~Telefax: +220 27268~~ ~~Telex: 2235 GAMPORTS GV~~ The Director General Gambia Port Authority P.O. Box 617 Banjul THE GAMBIA Telephone: +220 4 227 270 / 4 227 260 / 4 227 266 Fax: +220 4 227 268
GERMANY	~~Federal Ministry of Transport, Building and Urban Affairs~~ ~~Dangerous Goods Branch~~ ~~Robert Schuman Platz 1~~ ~~D 53175 Bonn~~ ~~GERMANY~~ ~~Telephone: +49 228 3000 or 300 extension~~ ~~+49 228 300 2643~~ ~~Telefax: +49 228 300 3428~~ ~~Email: Ref A33@bmvbw.bund.de~~ Federal Ministry of transport, Building and Urban Affairs Division A 33 – Transport of Dangerous Goods PO Box 20 01 00 D 53170 Bonn GERMANY Telephone: +49 228 3000 or 300-extension +49 228 300 2643 Fax: +49 228 300 3428 Email: Ref-A33@bmvbs.bund.de

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GHANA	The Director General Ghana Maritime Authority PMB. 34, Ministries Post Office Ministries - Accra GHANA Telephone: +233 21 662 122 / 684 392 Fax: +233 21 677 702 Email: info@ghanamaritime.org
GREECE	Ministry of Mercantile Marine Safety of Navigation Division International Relations Department 150 Gr. Lambraki Av. 185 18 Piraeus GREECE Telephone: +301 4191188 Fax: +301 4128150 Telex: +212022, 212239 YEN GR Email: dan@yen.gr
GUINEA BISSAU	The Minister Ministry of Transport & Communication Av. 3 de Agosto, Bissau GUINEA BISSAU Telephone: +245 212 583 / 245 211 308
GUYANA	Guyana Maritime Authority/Administration Ministry of Public Works and Communications Building Top Floor Fort street Kingston Georgetown REPUBLIC OF GUYANA Telephone: +592 226 3356 +592 225 7330 +592 226 7842 Fax: +592 226 9581 Email: MARAD@networksgy.com

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ICELAND	Iceland Maritime Administration Verturvör 2 IS-202 Kópavogur ICELAND Telephone: +354 560 0000 Fax: +354 560 0060 Email: skrifstofa@vh.is
INDIA	The Directorate General of Shipping Jahz Bhawan Walchand Hirachand Marg Bombay 400 001 INDIA Telephone: +91 22 263651 Telex: +DEGESHIP 2813-BOMBAY
INDONESIA	Director of Marine Safety Directorate-General Sea Communication (Department Perhubungan) JI. Merdeka Barat No.8 Jakarta Pusat. INDONESIA Telephone: +62 381 3269 Fax: +62 384 0788
IRAN (ISLAMIC REPUBLIC OF)	~~Ports and Shipping Organization~~ ~~751 Enghelab Avenue~~ ~~Tehran~~ ~~IRAN~~ ~~Telephone: +98 21 8809280 to 89~~ ~~Telefax: +98 21 8804100~~ ~~Telex: 212271 BNDR IR~~ Ports and Shipping Organization PSO Building, South Didar Ave, Shahid Haghani Highway, Vanak Square Tehran IRAN Telephone: +98 21 8493 2201 Fax: +98 21 8493 2227

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IRELAND	The Chief Surveyor Marine Survey Office Department of Transport Leeson Lane Dublin 2 IRELAND Telephone: +353 1 604 14 20 Fax: +353 1 604 14 08 Email: mso@transport.ie
ISRAEL	Shipping and Ports Inspectorate Itzhak Rabin Government Complex Building 2 Pal-Yam 15a Haifa 31999 ISRAEL Telephone: +972 4 8632080 Fax: +972 4 8632118 Email: techni@mot.gov.il
ITALY	~~Italian Coast Guard Headquarters~~ ~~Viale dell'Arte 16~~ ~~00144 Rome~~ ~~ITALY~~ ~~Telephone: +39 06 5908 4919~~ ~~Telefax: +39 06 5908 4918~~ ~~Email: uff1.rep6.cogecap@infrastrutturetrasporti.it~~ Italian Coast Guard Headquarters Ponte Dei Mille Genoa 16100 ITALY Telephone: +39 010 25 18 154 + 102 +39 010 25 18 154 + 111 Fax: +39 010 24 78 245 Email: 001@sicnavge.it 005@sicnavge.it

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JAPAN	Inspection and Measurement Division Maritime Bureau Ministry of Land, Infrastructure and Transport 2-1-3 Kasumigaseki, Chiyoda-ku Tokyo JAPAN Telephone: +81 3 5253 8639 Fax: +81 3 5253 1644 Email: MRB_KSK@mlit.go.jp
KENYA	Director General Kenya Maritime Authority P.O. Box 95076 (80104) Mombasa Kenya Telephone: +254 041 2318398/9 Fax: +254 041 2318397 Emails: nkarigithu@yahoo.co.uk info@maritimeauthority.co.ke karigithu@ikenya.com Ministry of Transport & Communications P.O. Box 52692 Nairobi Telephone: +254 020 2729200 Fax: +254 020 2724553 Emails: motc@insightkenya.com peterthuo_2004@yahoo.com

Country	Contact information for the main designated national competent authority
LATVIA	Maritime Administration of Latvia 5 Trijadibas iela L V-1 048 Riga LATVIA Telephone: +371 70 62 171 +371 70 62 120 +371 70 62 117 Fax: +371 78 60 082
LIBERIA	~~Office of the Commissioner of Maritime Affairs~~ ~~Bureau of Maritime Affairs, R.L.~~ ~~Tubman Boulevard~~ ~~P.O. Box 10-9042~~ ~~1000 Monrovia 10~~ ~~LIBERIA~~ ~~Telephone: +231 224 604 / 908~~ ~~Telefax: +231 226 069~~ ~~Office of the Deputy Commissioner of Maritime Affairs, R.L.~~ ~~Technical Division~~ ~~Marine Operations Department~~ ~~c/o Liberian International Ship & Corporate Registry~~ ~~8619 Westwood Center Drive, Suite 300~~ ~~Vienna, Virginia, 22182~~ ~~U.S.A.~~ ~~Telephone: +1 703 790 3434~~ ~~Telefax: +1 703 790 5655~~ ~~Email: info@liscr.com~~ ~~Website: www.liscr.com~~ Commissioner/Administration Bureau of Maritime Affairs P.O. Box 10-9042 1000 Monrovia 10 Monrovia LIBERIA Telephone: +231 227 744 / 37747 / 510 201 Fax: +231 226 069 Email: maritime@liberia.net

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MADAGASCAR	Director Agence Portuaire Maritime et Fluviale (APMF) P.O. Box 581 Antananarivo – 101 Madagascar Telephone: +261 20 242 5701 Telephone/Fax: +261 20 22 258 60 Mobile: +261 320 229 259 Email: spapmf.dt@mttpat.gov.mg
MALAWI	Director of Marine Services Marine Department Ministry of Transport & Civil Aviation Private Bag A81 Capital City Lilongwe Malawi Telephone: +265 1 755 546/752 666 /753 531 DL Fax: +265 1 750 157/758 894 Email: marinedepartment@malawi.net marinesafety@africa-online.net
MALAYSIA	Director Marine Department Peninsular Malaysia P.O. Box 12 42007 Port Kelang Selangor MALAYSIA Telex: MA 39748
MARSHALL ISLANDS	Office of the Maritime Administrator Maritime Operations Department Republic of the Marshall Islands 11495 Commerce Park Drive Reston, Virginia 20191-1507 USA Telephone: +1 703 620 4880 Fax: +1 703 476 8522 Telex: 248403 IRI UR Email: maritime@register-iri.com

Country	Contact information for the main designated national competent authority
MAURITIUS	Director of Shipping Ministry of Land Transport Shipping and Public Safety New Govt. Centre 4 Floor Port Louis Mauritius Telephone: +230 201 2115
MEXICO	Coordinación General de Puertos y Marina Mercante Secretaria de Comunicaciones y Transportes Nuevo León 210 Piso 3 Colo nia Hipódromo Col. Santa Cruz Atoyac D.F.C.P. 06100 MEXICO Telephone: +52 55 526 53220 Fax: +52 55 557 43902 Email: jtlozano@sct.gob.mx
MONTENEGRO	Ministry of Interior and Public Administration of the Republic of Montenegro Department for Contingency Plans and Civil Security REPUBLIC OF MONTENEGRO Telephone: +382 81 241 590 Fax: +382 81 246 779 Email: mup.emergency@cg.yu
MOROCCO	Direction de la Marine Marchande et des Pêches Maritimes Boulevard EI Hansali Casablanca MOROCCO Telephone: +1 212 227 8092 +1 212 222 1931 Telex: 24613 MARIMAR M 22824

Country	Contact information for the main designated national competent authority
MOZAMBIQUE	General Director National Maritime Authority (INAMAR) Marquês do Pombal Street No. 297 P.O. Box 4317 Maputo MOZAMBIQUE Telephone: +258 21 320 552 Fax: +258 21 324 007 Mobile: +258 82 153 0280 Email: inamar@tvcabo.co.mz Testing and Certification of packaging, Intermediate bulk containers and large packaging: Instituto Nacional de Normalizaçäo e Qualidade (INNOQ) 25 de Setembro Street No. 1179 2nd Floor Maputo MOZAMBIQUE Telephone: +258 21 303 822/3 Fax: +258 21 304 206 Mobile: +258 823 228 840 Email: innoq@emilmoz.com
NAMIBIA	Director Maritime Affairs Ministry Works, Tranport and Communication Private Bag 13341 6719 Bell Street Snyman Circle, Windhoek Namibia Telephone: +264 61 208 8025/6 Direct Line: 2088 111 Fax: +264 61 240 024/224 060 Mobile: +264 811 220 599 Email: mmnangolo@mwtc.gov.na

Country	Contact information for the main designated national competent authority
NETHERLANDS	Ministry of Transport, Public Works and Water Management Directorate-General for Civil Aviation and Freight Transport P.O. Box 20904 2500 EX The Hague THE NETHERLANDS Telephone: +31 70 351 6171 Fax: +31 70 351 1479 Ministry of Transport, Public Works and Water Management Transport Information Centre P.O. Box 90653 2509 LR The Hague THE NETHERLANDS Telephone: +31 70 456 2444 Fax: +31 70 456 2424 Email: vervoerinfo@ivw.nl
NEW ZEALAND	~~Director of Maritime New Zealand~~ ~~Maritime New Zealand~~ ~~Level 8 Gen i Tower~~ ~~109 Featherston Street~~ ~~P.O. Box 27006~~ ~~Wellington~~ ~~NEW ZEALAND~~ ~~Telephone: +64 4 473 0111~~ ~~Telefax: +64 4 494 1263~~ ~~E-Mail: dangerous.goods@maritimenz.govt.nz~~ ~~Website: www.maritimenz.govt.nz~~ Maritime New Zealand Level 10 Optimation House 1 Grey Street Wellington 6011 Telephone: +64 4 494 1273 Fax: +64 4 494 8901 Email: enquiries@maritimenz.govt.nz Website: www.maritimenz.govt.nz PO Box 27006 Wellington 6141 NEW ZEALAND Telephone: +64 4 473 0111 Fax: +64 4 494 1263

Country	Contact information for the main designated national competent authority
NIGERIA	Nigerian Maritime Administration and Safety Agency (NIMASA) Marine House 4 Burma Road, Apapa PMB 12861, GPO Marina Lagos NIGERIA Telephone: +234 587 2214 / 580 4800-9 Fax: +234 587 1329 Telex: 23891, NAMARING Website: www.nimasa.gov.ng
NORWAY	~~Norwegian Maritime Directorate~~ ~~Stensberggt. 27~~ ~~P.O. Box 8123 Dep.~~ ~~0032 Oslo~~ ~~NORWAY~~ ~~Telephone: +47 22 45 45 00~~ ~~Telefax: +47 22 56 87 80~~ ~~Email: postmottak@sjofartsdir.no~~ Norwegian Maritime Directorate Smedasundeh 50th N-5528 HAGESUND NORWAY Telephone: +47 5274 5000 Fax: +47 5244 5001 Email: postmottak@sjofartsdir.no
PAKISTAN	Mercantile Marine Department 70/4 Timber Hard N.M. Reclamation Keamari, Post Box No. 4534 Karachi 75620 PAKISTAN Telephone: +92 21 2851306 +92 21 2851307 Fax: +92 21 4547472 (24 hours) +92 21 4547897 Telex: 29822 DGPS PK (24 hours)

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PAPUA NEW GUINEA	First Assistant Secretary Department of Transport Division of Marine P.O. Box 457 Konedobu PAPUA NEW GUINEA (PNG) Telephone: +675 211866 Telex: 22203
PERU	~~Dirección General de Capitanías y Guardacostas~~ ~~Marine de Guerra del Perú~~ ~~Jr. Constitución Nº 150~~ ~~Callao~~ ~~PERU~~ ~~Telephone: +51 1 412 1116~~ ~~Telefax: +51 1 412 1913~~ ~~Telex: 26042 PE DICAPI COSTERA CALLAO~~ Direccion General de Capitanias y Guardacostas Autoridad Maritima del Peru Direccion de Medio Ambiente Jr. Independencia No 150 Callao PERU Fax: +51 1 613 6857 Email: dicapi.medioambiente@dicapi.mil.peru

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PHILIPPINES	Philippines Ports Authority Port of Manila Safety Staff P.O. Box 193 Port Area Manila 2803 PHILIPPINES Telephone: +63 2473441 to 49
POLAND	~~Ministry of Transport and Maritime Economy~~ ~~Department of Maritime and Inland Waters Administration~~ ~~ul. Chalubinskiego 4/6~~ ~~00-928 Warsaw~~ ~~POLAND~~ ~~Telephone: +48 22 6 211 448~~ ~~Telefax: +48 22 6 288 515~~ ~~Telex: 816651 PKL PL~~ Ministry of Maritime Economy Department of Maritime Safety 00-928 Warsaw ul. Chalubinskiego 4/6 POLAND Telephone: +48 22 630 15 40 Fax: +48 22 830 09 47
PORTUGAL	Direcçao-Geral de Navegaçao e dos Transportes Maritimos Praça Luis de Camoes, 22 -2°Dto 1200 Lisboa PORTUGAL Telephone: +351 1 373821 Fax: +351 1 373826 Telex: 16753 SEMM PO
REPUBLIC OF KOREA	Maritime Safety Policy Division Maritime Safety Bureau Ministry of Maritime Affairs and Fisheries 140-2 Gye-Dong, Jongno-Gu, Seoul, 110-793 REPUBLIC OF KOREA Telephone: +82 2 3674 6312 Telefax: +82 2 3674 6317

Country	Contact information for the main designated national competent authority
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RUSSIAN FEDERATION*	Department of State Policy for Maritime and River Transport Ministry of Transport of the Russian Federation Rozhdestvenka Street, 1, bldg. 1 Moscow 109012 RUSSIAN FEDERATION Telephone: +7 495 926 14 74
SAINT KITTS AND NEVIS	Department of Maritime Affairs Director of Maritime Affairs Ministry of Transport P.O. Box 186 Needsmust ST. KITTS WI Telephone: +869 466-7032/4846 Fax: +869 465-0604/9475 Email: Maritimeaffairs@yahoo.com
SAO TOME & PRINCIPE	The Minister Ministry of Public Works, Infrastructure & Land Planning C.P. 171 SAO TOME & PRINCIPE Telephone: +239 223 203 / 239 226 368 Fax: +239 222 824
SAUDI ARABIA	Port Authority Saudi Arabia Civil Defence Riyadh SAUDI ARABIA Telephone: +966 1 464 9477

* Except for governmental explosives.

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SOUTH AFRICA	South African Maritime Safety Authority P.O. Box 13186 Hatfield 0028 Pretoria SOUTH AFRICA Telephone: +27 12 342 3049 Fax: +27 12 342 3160

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SOUTH AFRICA (continued)	South African Maritime Safety Authority Hatfield Gardens, Block E (Ground Floor) Corner Arcadia and Grosvenor Street Hatfield 0083 Pretoria SOUTH AFRICA
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THAILAND	Ministry of Transport and Communications Ratchadamnoen-Nok Avenue Bangkok 10100 THAILAND Telephone: +66 2 2813422 Fax: +66 2 2801714 Telex: 70000 MINOCOM TH
TUNISIA	Ministère du Transport Direction Générale de la Marine Marchande Avenue 7 novembre (près l'aéroport) 2035 Tunis B.P. 179 Tunis cedex TUNISIA Telephone: +216 71 806 362 Fax: +216 71 806 413

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UNITED STATES	~~US Department of Transportation~~ ~~Pipeline and Hazardous Materials Safety Administration~~ ~~Office of International Standards~~ ~~400 Seventh Street SW~~ ~~Washington, D.C. 20590-0001~~ ~~U.S.A.~~ ~~Telephone: +1 202 366 0656~~ ~~Telefax: +1 202 366 5713~~ ~~Email: infocntr@dot.gov~~ ~~Website: hazmat.dot.gov~~ ~~United States Coast Guard~~ ~~Hazardous Materials Standards Division (G-PSO-3)~~ ~~2100 Second Street SW~~ ~~Washington, D.C. 20593-0001~~ ~~U.S.A.~~ ~~Telephone: +1 202 267 1577~~ ~~+1 202 267 1217~~ ~~Telefax: +1 202 267 4570~~

Country	Contact information for the main designated national competent authority
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Appendix A

List of generic and N.O.S. Proper Shipping Names

Substances or articles not mentioned specifically by name in the Dangerous Goods List in chapter 3.2 shall be classified in accordance with 3.1.1.2. Thus the name in the Dangerous Goods List which most appropriately describes the substance or article shall be used as the Proper Shipping Name. The main generic entries and all the N.O.S. entries given in the Dangerous Goods List are listed below. This Proper Shipping Name shall be supplemented by the technical name when special provision 274 has been assigned to the entry in column 6 of the Dangerous Goods List.

In this list general and N.O.S. names are grouped according to their hazard class or division. Within each hazard class or division the names have been placed into three groups as follows:

- specific entries covering a group of substances or articles of a particular chemical or technical nature;
- pesticide entries, for class 3 and ~~division~~ class 6.1;
- general entries covering a group of substances or articles having one or more general dangerous properties.

THE MOST SPECIFIC APPLICABLE NAME SHALL ALWAYS BE USED.

Class or division	Subsidiary risk	UN Number	Proper Shipping Name
			CLASS 1
1		0190	SAMPLES, EXPLOSIVE, other than initiating explosive
			Division 1.1
1.1A		0473	SUBSTANCES, EXPLOSIVE, N.O.S.
1.1B		0461	COMPONENTS, EXPLOSIVE TRAIN, N.O.S.
1.1C		0462	ARTICLES, EXPLOSIVE, N.O.S.
1.1C		0474	SUBSTANCES, EXPLOSIVE, N.O.S.
1.1C		0497	PROPELLANT, LIQUID
1.1C		0498	PROPELLANT, SOLID
1.1D		0463	ARTICLES, EXPLOSIVE, N.O.S.
1.1D		0475	SUBSTANCES, EXPLOSIVE, N.O.S.
1.1E		0464	ARTICLES, EXPLOSIVE, N.O.S.
1.1F		0465	ARTICLES, EXPLOSIVE, N.O.S.
1.1G		0476	SUBSTANCES, EXPLOSIVE, N.O.S.
1.1L		0354	ARTICLES, EXPLOSIVE, N.O.S.
1.1L		0357	SUBSTANCES, EXPLOSIVE, N.O.S.
			Division 1.2
1.2B		0382	COMPONENTS, EXPLOSIVE TRAIN, N.O.S.
1.2C		0466	ARTICLES, EXPLOSIVE, N.O.S.
1.2D		0467	ARTICLES, EXPLOSIVE, N.O.S.
1.2E		0468	ARTICLES, EXPLOSIVE, N.O.S.
1.2F		0469	ARTICLES, EXPLOSIVE, N.O.S.
1.2K	6.1	0020	AMMUNITION, TOXIC, with burster, expelling charge or propelling charge
1.2L		0248	CONTRIVANCES, WATER-ACTIVATED, with burster, expelling charge or propelling charge
1.2L		0355	ARTICLES, EXPLOSIVE, N.O.S.
1.2L		0358	SUBSTANCES, EXPLOSIVE, N.O.S.
			Division 1.3
1.3C		0132	DEFLAGRATING METAL SALTS OF AROMATIC NITRO-DERIVATIVES, N.O.S.
1.3C		0470	ARTICLES, EXPLOSIVE, N.O.S.
1.3C		0477	SUBSTANCES, EXPLOSIVE, N.O.S.
1.3C		0495	PROPELLANT, LIQUID
1.3C		0499	PROPELLANT, SOLID
1.3G		0478	SUBSTANCES, EXPLOSIVE, N.O.S.
1.3K	6.1	0021	AMMUNITION, TOXIC, with burster, expelling charge or propelling charge
1.3L	4.3	0249	CONTRIVANCES, WATER-ACTIVATED, with burster, expelling charge or propelling charge
1.3L		0356	ARTICLES, EXPLOSIVE, N.O.S.
1.3L		0359	SUBSTANCES, EXPLOSIVE, N.O.S.
			Division 1.4
1.4B		0350	ARTICLES, EXPLOSIVE, N.O.S.
1.4B		0383	COMPONENTS, EXPLOSIVE TRAIN, N.O.S.

Class or division	Subsidiary risk	UN Number	Proper Shipping Name
			CLASS 1
1.4C		0351	ARTICLES, EXPLOSIVE, N.O.S.
1.4C		0479	SUBSTANCES, EXPLOSIVE, N.O.S.
1.4C		0501	PROPELLANT, SOLID
1.4D		0352	ARTICLES, EXPLOSIVE, N.O.S.
1.4D		0480	SUBSTANCES, EXPLOSIVE, N.O.S.
1.4E		0471	ARTICLES, EXPLOSIVE, N.O.S.
1.4F		0472	ARTICLES, EXPLOSIVE, N.O.S.
1.4G		0353	ARTICLES, EXPLOSIVE, N.O.S.
1.4G		0485	SUBSTANCES, EXPLOSIVE, N.O.S.
1.4S		0349	ARTICLES, EXPLOSIVE, N.O.S.
1.4S		0384	COMPONENTS, EXPLOSIVE TRAIN, N.O.S.
1.4S		0481	SUBSTANCES, EXPLOSIVE, N.O.S.
			Division 1.5
1.5D		0482	SUBSTANCES, EXPLOSIVE, VERY INSENSITIVE (SUBSTANCES EVI), N.O.S.
			Division 1.6
1.6N		0486	ARTICLES, EXPLOSIVE, EXTREMELY INSENSITIVE (ARTICLES EEI)

Class or division	Subsidiary risk	UN Number	Proper Shipping Name
			CLASS 2
			Class 2.1
			Specific entries
2.1		1964	HYDROCARBON GAS MIXTURE, COMPRESSED, N.O.S.
2.1		1965	HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S.
2.1		3354	INSECTICIDE GAS, FLAMMABLE, N.O.S.
			General entries
2.1		1954	COMPRESSED GAS, FLAMMABLE, N.O.S.
2.1		3161	LIQUEFIED GAS, FLAMMABLE, N.O.S.
2.1		3167	GAS SAMPLE, NON-PRESSURIZED, FLAMMABLE, N.O.S., not refrigerated liquid
2.1		3312	GAS, REFRIGERATED LIQUID, FLAMMABLE, N.O.S.
			Class 2.2
			Specific entries
2.2		1078	REFRIGERANT GAS, N.O.S.
2.2		1968	INSECTICIDE GAS, N.O.S.
			General entries
2.2		1956	COMPRESSED GAS, N.O.S.
2.2		3163	LIQUEFIED GAS, N.O.S.
2.2		3158	GAS, REFRIGERATED LIQUID, N.O.S.
2.2	5.1	3156	COMPRESSED GAS, OXIDIZING, N.O.S.
2.2	5.1	3157	LIQUEFIED GAS, OXIDIZING, N.O.S.
2.2	5.1	3311	GAS, REFRIGERATED LIQUID, OXIDIZING, N.O.S.
			Class 2.3
			Specific entries
2.3		1967	INSECTICIDE GAS, TOXIC, N.O.S.
2.3	2.1	3355	INSECTICIDE GAS, TOXIC, FLAMMABLE, N.O.S.
			General entries
2.3		1955	COMPRESSED GAS, TOXIC, N.O.S.
2.3		3162	LIQUEFIED GAS, TOXIC, N.O.S.
2.3		3169	GAS SAMPLE, NON-PRESSURIZED, TOXIC, N.O.S., not refrigerated liquid
2.3	2.1	1953	COMPRESSED GAS, TOXIC, FLAMMABLE, N.O.S.
2.3	2.1	3160	LIQUEFIED GAS, TOXIC, FLAMMABLE, N.O.S.
2.3	2.1	3168	GAS SAMPLE, NON-PRESSURIZED, TOXIC, FLAMMABLE, N.O.S., not refrigerated liquid
2.3	2.1+8	3305	COMPRESSED GAS, TOXIC, FLAMMABLE, CORROSIVE, N.O.S.
2.3	2.1+8	3309	LIQUEFIED GAS, TOXIC, FLAMMABLE, CORROSIVE, N.O.S.
2.3	5.1	3303	COMPRESSED GAS, TOXIC, OXIDIZING, N.O.S.
2.3	5.1	3307	LIQUEFIED GAS, TOXIC, OXIDIZING, N.O.S.
2.3	5.1+8	3306	COMPRESSED GAS, TOXIC, OXIDIZING, CORROSIVE, N.O.S.

Class or division	Subsidiary risk	UN Number	Proper Shipping Name
			CLASS 2
2.3	5.1+8	3310	LIQUEFIED GAS, TOXIC, OXIDIZING, CORROSIVE, N.O.S.
2.3	8	3304	COMPRESSED GAS, TOXIC, CORROSIVE, N.O.S.
2.3	8	3308	LIQUEFIED GAS, TOXIC, CORROSIVE, N.O.S.

Class or division	Subsidiary risk	UN Number	Proper Shipping Name
			CLASS 3
			Specific entries
3		1224	KETONES, LIQUID, N.O.S.
3		1268	PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S.
3		1987	ALCOHOLS, N.O.S.
3		1989	ALDEHYDES, N.O.S.
3		2319	TERPENE HYDROCARBONS, N.O.S.
3		3271	ETHERS, N.O.S.
3		3272	ESTERS, N.O.S.
3		3295	HYDROCARBONS, LIQUID, N.O.S.
3		3336	MERCAPTANS, LIQUID, FLAMMABLE, N.O.S. or MERCAPTAN MIXTURE, LIQUID, FLAMMABLE, N.O.S.
3		3343	NITROGLYCERIN MIXTURE, DESENSITIZED, LIQUID, FLAMMABLE, N.O.S. with not more than 30% nitroglycerin, by mass
3		3357	NITROGLYCERIN MIXTURE, DESENSITIZED, LIQUID, N.O.S with not more than 30% nitroglycerin, by mass
3		3379	DESENSITIZED EXPLOSIVE, LIQUID, N.O.S.
3	6.1	1228	MERCAPTANS, LIQUID, FLAMMABLE, TOXIC, N.O.S. or MERCAPTAN MIXTURE, LIQUID, FLAMMABLE, TOXIC, N.O.S.
3	6.1	1986	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S.
3	6.1	1988	ALDEHYDES, FLAMMABLE, TOXIC, N.O.S.
3	6.1	2478	ISOCYANATE SOLUTION, FLAMMABLE, TOXIC, N.O.S
3	6.1	3248	MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S
3	6.1	3273	NITRILES, FLAMMABLE, TOXIC, N.O.S.
3	8	2733	AMINES, FLAMMABLE, CORROSIVE, N.O.S. or POLYAMINES, FLAMMABLE, CORROSIVE, N.O.S.
3	8	2985	CHLOROSILANES, FLAMMABLE, CORROSIVE, N.O.S.
3	8	3274	ALCOHOLATES SOLUTION, N.O.S. in alcohol
			Pesticides
3	6.1	2758	CARBAMATE PESTICIDE, LIQUID, FLAMMABLE, TOXIC flashpoint < 23 °C
3	6.1	2760	ARSENICAL PESTICIDE, LIQUID, FLAMMABLE, TOXIC flashpoint < 23 °C
3	6.1	2762	ORGANOCHLORINE PESTICIDE, LIQUID, FLAMMABLE, TOXIC flashpoint < 23 °C
3	6.1	2764	TRIAZINE PESTICIDE, LIQUID, FLAMMABLE, TOXIC flashpoint < 23 °C
3	6.1	2772	THIOCARBAMATE PESTICIDE, LIQUID, FLAMMABLE, TOXIC flashpoint < 23 °C
3	6.1	2776	COPPER-BASED PESTICIDE, LIQUID, FLAMMABLE, TOXIC flashpoint < 23 °C
3	6.1	2778	MERCURY-BASED PESTICIDE, LIQUID, FLAMMABLE, TOXIC flashpoint < 23 °C
3	6.1	2780	SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, FLAMMABLE, TOXIC flashpoint < 23 °C

Class or division	Subsidiary risk	UN Number	Proper Shipping Name
			CLASS 3
3	6.1	2782	BIPYRIDILIUM PESTICIDE, LIQUID, FLAMMABLE, TOXIC flashpoint < 23 °C
3	6.1	2784	ORGANOPHOSPHORUS PESTICIDE, LIQUID, FLAMMABLE, TOXIC flashpoint < 23 °C
3	6.1	2787	ORGANOTIN PESTICIDE, LIQUID, FLAMMABLE, TOXIC flashpoint < 23 °C
3	6.1	3021	PESTICIDE, LIQUID, FLAMMABLE, TOXIC, N.O.S. flashpoint < 23 °C
3	6.1	3024	COUMARIN DERIVATIVE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flashpoint < 23 °C
3	6.1	3346	PHENOXYACETIC ACID DERIVATIVE PESTICIDE, LIQUID, FLAMMABLE, TOXIC flashpoint < 23 °C
3	6.1	3350	PYRETHROID PESTICIDE, LIQUID, FLAMMABLE, TOXIC flashpoint < 23° C
			General entries
3		1993	FLAMMABLE LIQUID, N.O.S.
3		3256	ELEVATED TEMPERATURE LIQUID, FLAMMABLE, N.O.S. with flashpoint above ~~61 °C~~ 60 °C, at or above its flashpoint
3	6.1	1992	FLAMMABLE LIQUID, TOXIC, N.O.S.
3	6.1+8	3286	FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.
3	8	2924	FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Class or division	Subsidiary risk	UN Number	Proper Shipping Name
			CLASS 4
			Class 4.1
			Specific entries
4.1		1353	FIBRES or FABRICS IMPREGNATED WITH WEAKLY NITRATED NITROCELLULOSE, N.O.S.
4.1		3089	METAL POWDER, FLAMMABLE, N.O.S.
4.1		3182	METAL HYDRIDES, FLAMMABLE, N.O.S.
4.1		3221	SELF-REACTIVE LIQUID TYPE B
4.1		3222	SELF-REACTIVE SOLID TYPE B
4.1		3223	SELF-REACTIVE LIQUID TYPE C
4.1		3224	SELF-REACTIVE SOLID TYPE C
4.1		3225	SELF-REACTIVE LIQUID TYPE D
4.1		3226	SELF-REACTIVE SOLID TYPE D
4.1		3227	SELF-REACTIVE LIQUID TYPE E
4.1		3228	SELF-REACTIVE SOLID TYPE E
4.1		3229	SELF-REACTIVE LIQUID TYPE F
4.1		3230	SELF-REACTIVE SOLID TYPE F
4.1		3231	SELF-REACTIVE LIQUID TYPE B, TEMPERATURE CONTROLLED
4.1		3232	SELF-REACTIVE SOLID TYPE B, TEMPERATURE CONTROLLED
4.1		3233	SELF-REACTIVE LIQUID TYPE C, TEMPERATURE CONTROLLED
4.1		3234	SELF-REACTIVE SOLID TYPE C, TEMPERATURE CONTROLLED
4.1		3235	SELF-REACTIVE LIQUID TYPE D, TEMPERATURE CONTROLLED
4.1		3236	SELF-REACTIVE SOLID TYPE D, TEMPERATURE CONTROLLED
4.1		3237	SELF-REACTIVE LIQUID TYPE E, TEMPERATURE CONTROLLED
4.1		3238	SELF-REACTIVE SOLID TYPE E, TEMPERATURE CONTROLLED
4.1		3239	SELF-REACTIVE LIQUID TYPE F, TEMPERATURE CONTROLLED
4.1		3240	SELF-REACTIVE SOLID TYPE F, TEMPERATURE CONTROLLED
4.1		3319	NITROGLYCERIN MIXTURE, DESENSITIZED, SOLID, N.O.S. with more than 2% but not more than 10% nitroglycerin, by mass
4.1		3344	PENTAERYTHRITE TETRANITRATE MIXTURE, DESENSITIZED, SOLID, N.O.S. with more than 10% but not more than 20% PETN, by mass
4.1		3380	DESENSITIZED EXPLOSIVE, SOLID, N.O.S.
			General entries
4.1		1325	FLAMMABLE SOLID, ORGANIC, N.O.S.
4.1		3175	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.
4.1		3176	FLAMMABLE SOLID, ORGANIC, MOLTEN, N.O.S.

Class or division	Subsidiary risk	UN Number	Proper Shipping Name
			CLASS 4
4.1		3178	FLAMMABLE SOLID, INORGANIC, N.O.S.
4.1	~~5.1~~	3181	METAL SALTS OF ORGANIC COMPOUNDS, FLAMMABLE, N.O.S.
4.1	~~6.1~~ 5.1	3097	FLAMMABLE SOLID, OXIDIZING, N.O.S.
4.1	6.1	2926	FLAMMABLE SOLID, TOXIC, ORGANIC, N.O.S.
4.1	~~8~~ 6.1	3179	FLAMMABLE SOLID, TOXIC, INORGANIC, N.O.S.
4.1	8	2925	FLAMMABLE SOLID, CORROSIVE, ORGANIC, N.O.S.
4.1	8	3180	FLAMMABLE SOLID, CORROSIVE, INORGANIC, N.O.S.
			Class 4.2
			Specific entries
4.2		1373	FIBRES or FABRICS, ANIMAL or VEGETABLE or SYNTHETIC, N.O.S. with oil
4.2		1378	METAL CATALYST, WETTED with a visible excess of liquid
4.2		1383	PYROPHORIC METAL, N.O.S. or PYROPHORIC ALLOY, N.O.S.
4.2		2006	PLASTICS, NITROCELLULOSE-BASED, SELF-HEATING, N.O.S.
4.2		2881	METAL CATALYST, DRY
4.2		3189	METAL POWDER, SELF-HEATING, N.O.S.
4.2		3205	ALKALINE EARTH METAL ALCOHOLATES, N.O.S.
4.2		3313	ORGANIC PIGMENTS, SELF-HEATING
4.2		3342	XANTHATES
4.2		3391	ORGANOMETALLIC SUBSTANCE, SOLID, PYROPHORIC
4.2		3392	ORGANOMETALLIC SUBSTANCE, LIQUID, PYROPHORIC
4.2		3400	ORGANOMETALLIC SUBSTANCE, SOLID, SELF-HEATING
4.2	4.3	3393	ORGANOMETALLIC SUBSTANCE, SOLID, PYROPHORIC, WATER-REACTIVE
4.2	4.3	3394	ORGANOMETALLIC SUBSTANCE, LIQUID, PYROPHORIC, WATER-REACTIVE
4.2	8	3206	ALKALI METAL ALCOHOLATES, SELF-HEATING, CORROSIVE, N.O.S.
			General entries
4.2		2845	PYROPHORIC LIQUID, ORGANIC, N.O.S.
4.2		2846	PYROPHORIC SOLID, ORGANIC, N.O.S.
4.2		3088	SELF-HEATING SOLID, ORGANIC, N.O.S.
4.2		3183	SELF-HEATING LIQUID, ORGANIC, N.O.S.
4.2		3186	SELF-HEATING LIQUID, INORGANIC, N.O.S.
4.2		3190	SELF-HEATING SOLID, INORGANIC, N.O.S.
4.2		3194	PYROPHORIC LIQUID, INORGANIC, N.O.S.
4.2		3200	PYROPHORIC SOLID, INORGANIC, N.O.S.
4.2	5.1	3127	SELF-HEATING SOLID, OXIDIZING, N.O.S.
4.2	6.1	3128	SELF-HEATING SOLID, TOXIC, ORGANIC, N.O.S.
4.2	6.1	3184	SELF-HEATING LIQUID, TOXIC, ORGANIC, N.O.S.
4.2	6.1	3187	SELF-HEATING LIQUID, TOXIC, INORGANIC, N.O.S.

Class or division	Subsidiary risk	UN Number	Proper Shipping Name
			CLASS 4
4.2	6.1	3191	SELF-HEATING SOLID, TOXIC, INORGANIC, N.O.S.
4.2	8	3126	SELF-HEATING SOLID, CORROSIVE, ORGANIC, N.O.S.
4.2	8	3185	SELF-HEATING LIQUID, CORROSIVE, ORGANIC, N.O.S.
4.2	8	3188	SELF-HEATING LIQUID, CORROSIVE, INORGANIC, N.O.S.
4.2	8	3192	SELF-HEATING SOLID, CORROSIVE, INORGANIC, N.O.S.
			Class 4.3
			Specific entries
4.3		1389	ALKALI METAL AMALGAM, LIQUID
4.3		1390	ALKALI METAL AMIDES
4.3		1391	ALKALI METAL DISPERSION or ALKALINE EARTH METAL DISPERSION
4.3		1392	ALKALINE EARTH METAL AMALGAM, LIQUID
4.3		1393	ALKALINE EARTH METAL ALLOY, N.O.S.
4.3		1409	METAL HYDRIDES, WATER-REACTIVE, N.O.S.
4.3		1421	ALKALI METAL ALLOY, LIQUID, N.O.S.
4.3		3208	METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S.
4.3		3395	ORGANOMETALLIC SUBSTANCE, SOLID, WATER-REACTIVE
4.3		3398	ORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE
4.3		3401	ALKALI METAL AMALGAM, SOLID
4.3		3402	ALKALINE EARTH METAL AMALGAM, SOLID
4.3	3	3399	ORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE, FLAMMABLE
4.3	3+8	2988	CHLOROSILANES, WATER-REACTIVE, FLAMMABLE, CORROSIVE, N.O.S.
4.3	4.1	3396	ORGANOMETALLIC SUBSTANCE, SOLID, WATER-REACTIVE, FLAMMABLE
4.3	4.2	3209	METALLIC SUBSTANCE, WATER-REACTIVE, SELF-HEATING, N.O.S.
4.3	4.2	3397	ORGANOMETALLIC SUBSTANCE, SOLID WATER-REACTIVE, SELF-HEATING
			General entries
4.3		3148	WATER-REACTIVE LIQUID, N.O.S.
4.3		2813	WATER-REACTIVE SOLID, N.O.S.
4.3	4.1	3132	WATER-REACTIVE SOLID, FLAMMABLE, N.O.S.
4.3	4.2	3135	WATER-REACTIVE SOLID, SELF-HEATING, N.O.S.
4.3	5.1	3133	WATER-REACTIVE SOLID, OXIDIZING, N.O.S.
4.3	6.1	3130	WATER-REACTIVE LIQUID, TOXIC, N.O.S.
4.3	6.1	3134	WATER-REACTIVE SOLID, TOXIC, N.O.S.
4.3	8	3129	WATER-REACTIVE LIQUID, CORROSIVE, N.O.S.
4.3	8	3131	WATER-REACTIVE SOLID, CORROSIVE, N.O.S.

Class or division	Subsidiary risk	UN Number	Proper Shipping Name
			CLASS 5
			Class 5.1
			Specific entries
5.1		1450	BROMATES, INORGANIC, N.O.S.
5.1		1461	CHLORATES, INORGANIC, N.O.S.
5.1		1462	CHLORITES, INORGANIC, N.O.S.
5.1		1477	NITRATES, INORGANIC, N.O.S.
5.1		1481	PERCHLORATES, INORGANIC, N.O.S.
5.1		1482	PERMANGANATES, INORGANIC, N.O.S.
5.1		1483	PEROXIDES, INORGANIC, N.O.S.
5.1		2627	NITRITES, INORGANIC, N.O.S.
5.1		3210	CHLORATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.
5.1		3211	PERCHLORATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.
5.1		3212	HYPOCHLORITES, INORGANIC, N.O.S.
5.1		3213	BROMATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.
5.1		3214	PERMANGANATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.
5.1		3215	PERSULPHATES, INORGANIC, N.O.S.
5.1		3216	PERSULPHATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.
5.1		3218	NITRATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.
5.1		3219	NITRITES, INORGANIC, AQUEOUS SOLUTION, N.O.S.
			General entries
5.1		1479	OXIDIZING SOLID, N.O.S.
5.1		3139	OXIDIZING LIQUID, N.O.S.
5.1	4.1	3137	OXIDIZING SOLID, FLAMMABLE, N.O.S.
5.1	4.2	3100	OXIDIZING SOLID, SELF-HEATING, N.O.S.
5.1	4.3	3121	OXIDIZING SOLID, WATER-REACTIVE, N.O.S.
5.1	6.1	3087	OXIDIZING SOLID, TOXIC, N.O.S.
5.1	6.1	3099	OXIDIZING LIQUID, TOXIC, N.O.S.
5.1	8	3085	OXIDIZING SOLID, CORROSIVE, N.O.S.
5.1	8	3098	OXIDIZING LIQUID, CORROSIVE, N.O.S.
			Class 5.2
			Specific entries
5.2		3101	ORGANIC PEROXIDE TYPE B, LIQUID
5.2		3102	ORGANIC PEROXIDE TYPE B, SOLID
5.2		3103	ORGANIC PEROXIDE TYPE C, LIQUID
5.2		3104	ORGANIC PEROXIDE TYPE C, SOLID
5.2		3105	ORGANIC PEROXIDE TYPE D, LIQUID
5.2		3106	ORGANIC PEROXIDE TYPE D, SOLID
5.2		3107	ORGANIC PEROXIDE TYPE E, LIQUID

Class or division	Subsidiary risk	UN Number	Proper Shipping Name
			CLASS 5
5.2		3108	ORGANIC PEROXIDE TYPE E, SOLID
5.2		3109	ORGANIC PEROXIDE TYPE F, LIQUID
5.2		3110	ORGANIC PEROXIDE TYPE F, SOLID
5.2		3111	ORGANIC PEROXIDE TYPE B, LIQUID, TEMPERATURE CONTROLLED
5.2		3112	ORGANIC PEROXIDE TYPE B, SOLID, TEMPERATURE CONTROLLED
5.2		3113	ORGANIC PEROXIDE TYPE C, LIQUID, TEMPERATURE CONTROLLED
5.2		3114	ORGANIC PEROXIDE TYPE C, SOLID, TEMPERATURE CONTROLLED
5.2		3115	ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED
5.2		3116	ORGANIC PEROXIDE TYPE D, SOLID, TEMPERATURE CONTROLLED
5.2		3117	ORGANIC PEROXIDE TYPE E, LIQUID, TEMPERATURE CONTROLLED
5.2		3118	ORGANIC PEROXIDE TYPE E, SOLID, TEMPERATURE CONTROLLED
5.2		3119	ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED
5.2		3120	ORGANIC PEROXIDE TYPE F, SOLID, TEMPERATURE CONTROLLED

Class or division	Subsidiary risk	UN Number	Proper Shipping Name
			CLASS 6
			Class 6.1
			Specific entries
6.1		1544	ALKALOIDS, SOLID, N.O.S. or ALKALOIDS SALTS, SOLID, N.O.S.
6.1		1549	ANTIMONY COMPOUND, INORGANIC, SOLID, N.O.S.
6.1		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		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		1564	BARIUM COMPOUND, N.O.S.
6.1		1566	BERYLLIUM COMPOUND, N.O.S.
6.1		1583	CHLOROPICRIN MIXTURE, N.O.S.
6.1		1588	CYANIDES, INORGANIC, SOLID, N.O.S.
6.1		1601	DISINFECTANT, SOLID, TOXIC, N.O.S.
6.1		1602	DYE, LIQUID, TOXIC, N.O.S. or DYE INTERMEDIATE, LIQUID, TOXIC, N.O.S.
6.1		1655	NICOTINE COMPOUND, SOLID, N.O.S. or NICOTINE PREPARATION, SOLID, N.O.S.
6.1		1693	TEAR GAS SUBSTANCE, LIQUID, N.O.S.
6.1		1707	THALLIUM COMPOUND, N.O.S.
6.1		1851	MEDICINE, LIQUID, TOXIC, N.O.S.
6.1		1935	CYANIDE SOLUTION, N.O.S.
6.1		2024	MERCURY COMPOUND, LIQUID, N.O.S.
6.1		2025	MERCURY COMPOUND, SOLID, N.O.S.
6.1		2026	PHENYLMERCURIC COMPOUND, N.O.S.
6.1		2206	ISOCYANATES, TOXIC, N.O.S. or ISOCYANATE SOLUTION, TOXIC, N.O.S.
6.1		2291	LEAD COMPOUND, SOLUBLE, N.O.S.
6.1		2570	CADMIUM COMPOUND
6.1		2788	ORGANOTIN COMPOUND, LIQUID, N.O.S.
6.1		2856	FLUOROSILICATES, N.O.S.
6.1		3140	ALKALOIDS, LIQUID, N.O.S. or ALKALOIDS SALTS, LIQUID, N.O.S.
6.1		3141	ANTIMONY COMPOUND, INORGANIC, LIQUID, N.O.S.
6.1		3142	DISINFECTANT, LIQUID, TOXIC, N.O.S.
6.1		3143	DYE, SOLID, TOXIC, N.O.S. or DYE INTERMEDIATE, SOLID, TOXIC, N.O.S.
6.1		3144	NICOTINE ~~PREPARATION~~ COMPOUND, LIQUID, N.O.S. or NICOTINE ~~COMPOUND~~ PREPARATION, LIQUID, N.O.S.
6.1		3146	ORGANOTIN COMPOUND, SOLID, N.O.S.
6.1		3249	MEDICINE, SOLID, TOXIC, N.O.S.
6.1		3276	NITRILES, TOXIC, LIQUID, N.O.S.
6.1		3278	ORGANOPHOSPHORUS COMPOUND, TOXIC, LIQUID, N.O.S.
6.1		3280	ORGANOARSENIC COMPOUND, LIQUID, N.O.S.
6.1		3281	METAL CARBONYLS, LIQUID, N.O.S.

Class or division	Subsidiary risk	UN Number	Proper Shipping Name
			CLASS 6
6.1		3282	ORGANOMETALLIC COMPOUND, TOXIC, LIQUID, N.O.S.
6.1		3283	SELENIUM COMPOUND, SOLID, N.O.S.
6.1		3284	TELLURIUM COMPOUND, N.O.S.
6.1		3285	VANADIUM COMPOUND, N.O.S.
6.1		3439	NITRILES, TOXIC, SOLID, N.O.S.
6.1		3440	SELENIUM COMPOUND, LIQUID, N.O.S.
6.1		3448	TEAR GAS SUBSTANCE, SOLID, N.O.S.
6.1		3462	TOXINS EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S.
6.1		3464	ORGANOPHOSPHORUS COMPOUND, TOXIC, SOLID, N.O.S.
6.1		3465	ORGANOARSENIC COMPOUND, SOLID,, N.O.S.
6.1		3466	METAL CARBONYLS, SOLID, N.O.S.
6.1		3467	ORGANOMETALLIC COMPOUND, TOXIC, SOLID, N.O.S.
6.1	3	3071	MERCAPTANS, LIQUID, TOXIC, FLAMMABLE, N.O.S. or MERCAPTAN MIXTURE, LIQUID, TOXIC, FLAMMABLE, N.O.S.
6.1	3	3080	ISOCYANATES, TOXIC, FLAMMABLE, N.O.S or ISOCYANATE SOLUTION, TOXIC, FLAMMABLE, N.O.S.
6.1	3	3275	NITRILES, TOXIC, FLAMMABLE, N.O.S.
6.1	3	3279	ORGANOPHOSPHORUS COMPOUND, TOXIC, FLAMMABLE N.O.S.
6.1	3+8	2742	CHLOROFORMATES, TOXIC, CORROSIVE, FLAMMABLE, N.O.S.
6.1	3+8	3362	CHLOROSILANES, TOXIC, CORROSIVE, FLAMMABLE, N.O.S.
6.1	8	3277	CHLOROFORMATES, TOXIC, CORROSIVE, N.O.S.
6.1	8	3361	CHLOROSILANES, TOXIC, CORROSIVE, N.O.S.
			Pesticides
			(a) Solid
6.1		2588	PESTICIDE, SOLID, TOXIC, N.O.S.
6.1		2757	CARBAMATE PESTICIDE, SOLID, TOXIC
6.1		2759	ARSENICAL PESTICIDE, SOLID, TOXIC
6.1		2761	ORGANOCHLORINE PESTICIDE, SOLID, TOXIC
6.1		2763	TRIAZINE PESTICIDE, SOLID, TOXIC
6.1		2771	THIOCARBAMATE PESTICIDE, SOLID, TOXIC
6.1		2775	COPPER-BASED PESTICIDE, SOLID, TOXIC
6.1		2777	MERCURY-BASED PESTICIDE, SOLID, TOXIC
6.1		2779	SUBSTITUTED NITROPHENOL PESTICIDE, SOLID, TOXIC
6.1		2781	BIPYRIDILIUM PESTICIDE, SOLID, TOXIC
6.1		2783	ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC
6.1		2786	ORGANOTIN PESTICIDE, SOLID, TOXIC
6.1		3027	COUMARIN DERIVATIVE PESTICIDE, SOLID, TOXIC
6.1		3345	PHENOXYACETIC ACID DERIVATIVE PESTICIDE, SOLID, TOXIC

Class or division	Subsidiary risk	UN Number	Proper Shipping Name
			CLASS 6
6.1		3349	PYRETHROID PESTICIDE, SOLID, TOXIC
			(b) Liquid
6.1		2902	PESTICIDE, LIQUID, TOXIC, N.O.S.
6.1		2992	CARBAMATE PESTICIDE, LIQUID, TOXIC
6.1		2994	ARSENICAL PESTICIDE, LIQUID, TOXIC
6.1		2996	ORGANOCHLORINE PESTICIDE, LIQUID, TOXIC
6.1		2998	TRIAZINE PESTICIDE, LIQUID, TOXIC
6.1		3006	THIOCARBAMATE PESTICIDE, LIQUID, TOXIC
6.1		3010	COPPER-BASED PESTICIDE, LIQUID, TOXIC
6.1		3012	MERCURY-BASED PESTICIDE, LIQUID, TOXIC
6.1		3014	SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, TOXIC
6.1		3016	BIPYRIDILIUM PESTICIDE, LIQUID, TOXIC
6.1		3018	ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC
6.1		3020	ORGANOTIN PESTICIDE, LIQUID, TOXIC
6.1		3026	COUMARIN DERIVATIVE PESTICIDE, LIQUID, TOXIC
6.1		3348	PHENOXYACETIC ACID DERIVATIVE PESTICIDE, LIQUID, TOXIC
6.1		3352	PYRETHROID PESTICIDE, LIQUID, TOXIC
6.1	3	2903	PESTICIDE, LIQUID, TOXIC, FLAMMABLE, N.O.S., flashpoint = 23 °C
6.1	3	2991	CARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flashpoint = 23 °C
6.1	3	2993	ARSENICAL PESTICIDE, LIQUID, TOXIC, FLAMMABLE flashpoint between 23 °C and 61 °C
6.1	3	2995	ORGANOCHLORINE PESTICIDE, LIQUID, TOXIC, FLAMMABLE flashpoint = 23 °C
6.1	3	2997	TRIAZINE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flashpoint = 23 °C
6.1	3	3005	THIOCARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE flashpoint = 23 °C
6.1	3	3009	COPPER-BASED PESTICIDE, LIQUID, TOXIC, FLAMMABLE flashpoint = 23 °C
6.1	3	3011	MERCURY-BASED PESTICIDE, LIQUID, TOXIC, FLAMMABLE flashpoint = 23 °C
6.1	3	3013	SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, TOXIC, FLAMMABLE flashpoint = 23 °C
6.1	3	3015	BIPYRIDILIUM PESTICIDE, LIQUID, TOXIC, FLAMMABLE flashpoint = 23 °C
6.1	3	3017	ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE flashpoint not less than 23 °C
6.1	3	3019	ORGANOTIN PESTICIDE, LIQUID, TOXIC, FLAMMABLE flashpoint = 23 °C
6.1	3	3025	COUMARIN DERIVATIVEPESTICIDE, LIQUID, TOXIC, FLAMMABLE flashpoint = 23 °C
6.1	3	3347	PHENOXYACETIC ACID DERIVATIVE PESTICIDE, LIQUID, TOXIC, FLAMMABLE flashpoint = 23 °C

Class or division	Subsidiary risk	UN Number	Proper Shipping Name
			CLASS 6
6.1	3	3351	PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE flashpoint = 23 °C
			General entries
6.1		2810	TOXIC LIQUID, ORGANIC, N.O.S.
6.1		2811	TOXIC SOLID, ORGANIC, N.O.S.
6.1		3172	TOXINS, EXTRACTED FROM LIVING SOURCES, LIQUID, N.O.S.
6.1		3243	SOLIDS CONTAINING TOXIC LIQUID, N.O.S.
6.1		3287	TOXIC LIQUID, INORGANIC, N.O.S.
6.1		3288	TOXIC SOLID, INORGANIC, N.O.S.
6.1		3315	CHEMICAL SAMPLE, TOXIC
6.1		3381	TOXIC BY INHALATION LIQUID, N.O.S. with an inhalation toxicity lower than or equal to 200 ml/m^3 and saturated vapour concentration greater than or equal to 500 LC_{50}
6.1		3382	TOXIC BY INHALATION LIQUID, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m^3 and saturated vapour concentration greater than or equal to 10 LC_{50}
6.1	3	2929	TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.
6.1	3	3383	TOXIC BY INHALATION LIQUID, FLAMMABLE, N.O.S. with an inhalation toxicity lower than or equal to 200 ml/m^3 and saturated vapour concentration greater than or equal to 500 LC_{50}
6.1	3	3384	TOXIC BY INHALATION LIQUID, FLAMMABLE, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m^3 and saturated vapour concentration greater than or equal to 10 LC_{50}
6.1	4.1	2930	TOXIC SOLID, FLAMMABLE, ORGANIC, N.O.S.
6.1	4.2	3124	TOXIC SOLID, SELF-HEATING, N.O.S.
6.1	4.3	3123	TOXIC LIQUID, WATER-REACTIVE, N.O.S.
6.1	4.3	3125	TOXIC SOLID, WATER-REACTIVE, N.O.S.
6.1	4.3	3385	TOXIC BY INHALATION LIQUID, WATER-REACTIVE, N.O.S. with an inhalation toxicity lower than or equal to 200 ml/m^3 and saturated vapour concentration greater than or equal to 500 LC_{50}
6.1	4.3	3386	TOXIC BY INHALATION LIQUID, WATER-REACTIVE, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m^3 and saturated vapour concentration greater than or equal to 10 LC_{50}
6.1	5.1	3122	TOXIC LIQUID, OXIDIZING, N.O.S.
6.1	5.1	3086	TOXIC SOLID, OXIDIZING, N.O.S.
6.1	5.1	3387	TOXIC BY INHALATION LIQUID, OXIDIZING, N.O.S. with an inhalation toxicity lower than or equal to 200 ml/m^3 and saturated vapour concentration greater than or equal to 500 LC_{50}
6.1	5.1	3388	TOXIC BY INHALATION LIQUID, OXIDIZING, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m^3 and saturated vapour concentration greater than or equal to 10 LC_{50}
6.1	8	2927	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.
6.1	8	2928	TOXIC SOLID, CORROSIVE, ORGANIC, N.O.S.
6.1	8	3289	TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S.
6.1	8	3290	TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S.

Class or division	Subsidiary risk	UN Number	Proper Shipping Name
			CLASS 6
6.1	8	3389	TOXIC BY INHALATION LIQUID, CORROSIVE, N.O.S. with an inhalation toxicity lower than or equal to 200 ml/m^3 and saturated vapour concentration greater than or equal to 500 LC_{50}
6.1	8	3390	TOXIC BY INHALATION LIQUID, CORROSIVE, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m^3 and saturated vapour concentration greater than or equal to 10 LC_{50}
			Class 6.2
			Specific entries
6.2		3291	CLINICAL WASTE, UNSPECIFIED, N.O.S. or (BIO) MEDICAL WASTE, N.O.S. or REGULATED MEDICAL WASTE, N.O.S.
6.2		3373	~~DIAGNOSTIC or CLINICAL SPECIMENS~~ BIOLOGICAL SUBSTANCE, CATEGORY B
			General entries
6.2		2814	INFECTIOUS SUBSTANCE, AFFECTING HUMANS
6.2		2900	INFECTIOUS SUBSTANCE, AFFECTING ANIMALS only

Class or division	Subsidiary risk	UN Number	Proper Shipping Name
			CLASS 7
			General entries
7		2908	RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - EMPTY PACKAGING
7		2909	RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - ARTICLES MANUFACTURED FROM NATURAL URANIUM or DEPLETED URANIUM or NATURAL THORIUM
7		2910	RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - LIMITED QUANTITY OF MATERIAL
7		2911	RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - INSTRUMENTS or ARTICLES
7		2912	RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-I) non-fissile or fissile-excepted
7		2913	RADIOACTIVE MATERIAL, SURFACE CONTAMINATED OBJECTS(SCO-I or SCO-II), non fissile or fissile-excepted
7		2915	RADIOACTIVE MATERIAL, TYPE A PACKAGE, non-special form, non-fissile or fissile-excepted
7		2916	RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE non-fissile or fissile-excepted
7		2917	RADIOACTIVE MATERIAL, TYPE B(M) PACKAGE non-fissile or fissile-excepted
7		2919	RADIOACTIVE MATERIAL, TRANSPORTED UNDER SPECIAL ARRANGEMENT non-fissile or fissile-excepted
7		3321	RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-II), non-fissile or fissile-excepted
7		3322	RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-III), non-fissile or fissile-excepted
7		3323	RADIOACTIVE MATERIAL, TYPE C PACKAGE non-fissile or fissile-excepted
7		3324	RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-II), FISSILE
7		3325	RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY, (LSA-III), FISSILE
7		3326	RADIOACTIVE MATERIAL, SURFACE CONTAMINATED OBJECTS (SCO-I or SCO-II), FISSLE
7		3327	RADIOACTIVE MATERIAL, TYPE A PACKAGE, FISSILE non-special form
7		3328	RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE
7		3329	RADIOACTIVE MATERIAL, TYPE B(M) PACKAGE, FISSILE
7		3330	RADIOACTIVE MATERIAL, TYPE C PACKAGE, FISSILE
7		3331	RADIOACTIVE MATERIAL, TRANSPORTED UNDER SPECIAL ARRANGEMENT, FISSILE
7		3332	RADIOACTIVE MATERIAL, TYPE A PACKAGE, SPECIAL FORM non-fissile or fissile-excepted
7		3333	RADIOACTIVE MATERIAL, TYPE A PACKAGE, SPECIAL FORM, FISSILE

Class or division	Subsidiary risk	UN Number	Proper Shipping Name
			CLASS 8
			Specific entries
8		1719	CAUSTIC ALKALI LIQUID, N.O.S.
8		1740	HYDROGENDIFLUORIDES, N.O.S.
8		1903	DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
8		2430	ALKYLPHENOLS, SOLID, N.O.S. (including C2 -C12 homologues)
8		2693	BISULPHITES, AQUEOUS SOLUTION, N.O.S.
8		2735	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.
8		2801	DYE, LIQUID, CORROSIVE, N.O.S. or DYE INTERMEDIATE, LIQUID, CORROSIVE, N.O.S.
8		2837	BISULPHATES, AQUEOUS SOLUTION
8		2987	CHLOROSILANES, CORROSIVE, N.O.S.
8		3145	ALKYLPHENOLS, LIQUID, N.O.S. (including C2 -C12 homologues)
8		3147	DYE, SOLID, CORROSIVE, N.O.S. or DYE INTERMEDIATE, SOLID, CORROSIVE, N.O.S.
8		3259	AMINES, SOLID, CORROSIVE, N.O.S. or POLYAMINES, SOLID, CORROSIVE, N.O.S.
8	3	2734	AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S.
8	3	2986	CHLOROSILANES, CORROSIVE, FLAMMABLE, N.O.S.
			General entries
8		1759	CORROSIVE SOLID, N.O.S.
8		1760	CORROSIVE LIQUID, N.O.S.
8		3244	SOLIDS CONTAINING CORROSIVE LIQUID, N.O.S.
8		3260	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
8		3261	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
8		3262	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.
8		3263	CORROSIVE SOLID, BASIC,ORGANIC, N.O.S.
8		3264	CORROSIVE LIQUID, ACIDIC,INORGANIC, N.O.S.
8		3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
8		3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
8		3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
8	3	2920	CORROSIVE LIQUID, FLAMMABLE, N.O.S.
8	4.1	2921	CORROSIVE SOLID, FLAMMABLE, N.O.S.
8	4.2	3095	CORROSIVE SOLID, SELF- HEATING, N.O.S.
8	4.2	3301	CORROSIVE LIQUID, SELF-HEATING, N.O.S.
8	4.3	3094	CORROSIVE LIQUID, WATER-REACTIVE, N.O.S.
8	4.3	3096	CORROSIVE SOLID, WATER-REACTIVE, N.O.S.
8	5.1	3084	CORROSIVE SOLID, OXIDIZING, N.O.S.
8	5.1	3093	CORROSIVE LIQUID, OXIDIZING, N.O.S.
8	6.1	2922	CORROSIVE LIQUID, TOXIC, N.O.S.
8	6.1	2923	CORROSIVE SOLID, TOXIC, N.O.S.
8	6.1	3471	HYDROGENDIFLUORIDES SOLUTION, N.O.S.

Class or division	Subsidiary risk	UN Number	Proper Shipping Name
			CLASS 9
			General entries
9		3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
9		3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
9		3257	ELEVATED TEMPERATURE LIQUID, N.O.S. at or above 100 °C and below its flashpoint (including molten metals, molten salts, etc.)
9		3258	ELEVATED TEMPERATURE SOLID, N.O.S. at or above 240 °C
See SP ~~106~~ 960		3334	AVIATION REGULATED LIQUID, N.O.S.
See SP ~~106~~ 960		3335	AVIATION REGULATED SOLID, N.O.S.

Appendix B

Glossary of terms

Note: The provisions of this appendix are not mandatory

Caution: The explanations in this Glossary are for information only and are not to be used for purposes of hazard classification.

AIR BAG INFLATORS or AIR BAG MODULES or SEAT-BELT PRETENSIONERS	Articles which contain pyrotechnic substances and are used as life-saving vehicle air bags or seat-belts.
AMMUNITION, ILLUMINATING with or without burster, expelling charge or propelling charge	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.
AMMUNITION, INCENDIARY liquid or gel, with burster, expelling charge or propelling charge	Ammunition containing liquid or gelatinous incendiary substance. It also contains one or more of the following: a propelling charge with primer and igniter charge; a fuse with burster or expelling charge.
AMMUNITION, INCENDIARY, WHITE PHOSPHORUS with burster, expelling charge or propelling charge	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 fuse with burster or expelling charge. White phosphorus ignites spontaneously on exposure to air and any spillage must be submerged under water.
AMMUNITION, INCENDIARY with or without burster, expelling charge or propelling charge	Ammunition containing incendiary composition. It may contain one or more of the following: a propelling charge with primer and igniter charge; a fuse with burster or expelling charge.
AMMUNITION, PRACTICE	Ammunition without a main bursting charge, containing a burster or expelling charge. Normally it also contains a fuse and a propelling charge.
AMMUNITION, PROOF	Ammunition containing pyrotechnic substance, used to test the performance or strength of new ammunition, weapon component or assemblies.
AMMUNITION, SMOKE, WHITE PHOSPHORUS with burster, expelling charge or propelling charge	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 fuse with burster or expelling charge. The term includes grenades, smoke. White phosphorus ignites spontaneously on exposure to air and any spillage must be submerged under water.

AMMUNITION, SMOKE with or without burster, expelling charge or propelling charge.	Ammunition which produces dense smoke which may be toxic and is suffocating in enclosed spaces. The ammunition may contain one or more of the following: a propelling charge with primer and igniter charge; a fuse with burster or expelling charge. The term includes grenades, smoke.
AMMUNITION TEAR-PRODUCING with burster, expelling charge or propelling charge	Ammunition containing tear-producing substances; it also contains one or more of the following: a pyrotechnic substance; a propelling charge with primer and igniter charge; a fuse with burster or expelling charge.
AMMUNITION, TOXIC with burster, expelling charge or propelling charge	Ammunition containing a toxic agent. It also contains one or more of the following: a pyrotechnic substance; a propelling charge with primer and igniter charge; a fuse with burster or expelling charge.
ARTICLES, EXPLOSIVE, EXTREMELY INSENSITIVE (ARTICLES, EEI)	Articles that contain only extremely insensitive detonating substances and which demonstrate a negligible probability of accidental initiation or propagation (under normal conditions of transport) and which have passed UN test series 7 (see 2.1.3.1).
ARTICLES, PYROPHORIC	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	Articles which contain pyrotechnic substances and are used for technical purposes such as heat generation, gas generation, theatrical effects, etc.
BOMBS, PHOTO-FLASH (1) (UN 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 (2) (UN 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 (3) (UN 0039 & UN 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 (1) (UN 0033 & UN 0291)	Explosive articles which are dropped from aircraft and are transported with means of initiation not containing two or more effective protective features.

BOMBS with bursting charge (2) (UN 0034 & UN 0035)	Explosive articles which are dropped from aircraft and are transported without means of initiation or with means of initiation containing two or more effective protective features.
BOMBS, WITH FLAMMABLE LIQUID with bursting charge	Articles which are dropped from aircraft, consisting of a tank filled with flammable liquid and an explosive bursting charge.
BOOSTERS with detonator	Articles consisting of a charge of detonating explosive with means of initiation containing a primary explosive and which does not have two or more effective protective features. They are used to increase the initiating power of detonators or detonating cord.
BOOSTERS without detonator	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	Articles consisting of a small charge of explosive, without means of initiation used to open projectiles or other ammunition in order to disperse their contents.
CARTRIDGES FOR WEAPONS, BLANK	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 a charge, starter pistols, etc. The term includes ammunition, blank.
CARTRIDGES FOR WEAPONS, INERT PROJECTILE	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. 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 (1) (UN 0005, UN 0007 & UN 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 FOR WEAPONS with bursting charge (2) (UN 0006, UN 0321 & UN 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, FLASH	Articles consisting of a casing, a primer and flash powder, assembled in one piece ready for firing.
CARTRIDGES, OIL WELL	Articles consisting of a casing of thin fibre, metal or other material containing only propellant which projects a hardened projectile to perforate an oil-well casing.
CARTRIDGES, POWER DEVICE	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 or linear or rotary motion or activate diaphragms, valves or switches or project fastening devices or extinguishing agents.
CARTRIDGES, SIGNAL	Articles designed to fire coloured flares or other signals from signal pistols, etc.
CARTRIDGES, SMALL ARMS	Ammunition consisting of a cartridge case fitted with a centre or rim fire primer and containing both a propelling charge and a 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.
CARTRIDGES, SMALL ARMS, BLANK	See "CARTRIDGES FOR WEAPONS, BLANK"
CASES, CARTRIDGE, EMPTY, WITH PRIMER	Articles consisting of a cartridge case made from metal, plastics or other non-flammable material, in which the only explosive component is the primer.
CASES, COMBUSTIBLE, EMPTY, WITHOUT PRIMER	Articles consisting of cartridge cases made partly or entirely from nitrocellulose.
CHARGES, BURSTING, PLASTICS-BONDED	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	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.
CHARGES, DEPTH	Articles consisting of a charge of detonating explosive contained in a drum or projectile without means of initiation containing two or more effective protective features. They are designed to detonate under water.
CHARGES, EXPLOSIVE, COMMERCIAL without detonator	Articles consisting of a charge of detonating explosive without means of initiation, used for explosive welding, jointing, forming and other metallurgical processes.
CHARGES, PROPELLING	Articles consisting of a propellant charge in any physical form, with or without a casing, for use as a component of rocket motors or for reducing the drag of projectiles.
CHARGES, PROPELLING, FOR CANNON	Articles consisting of a propellant charge in any physical form, with or without a casing, for use in a cannon.
CHARGES, SHAPED, FLEXIBLE, LINEAR	Articles consisting of a V-shaped core of a detonating explosive clad by a flexible sheath.
CHARGES, SHAPED without detonator	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, SUPPLEMENTARY, EXPLOSIVE	Articles consisting of a small removable booster used in the cavity of a projectile between the fuse and the bursting charge.
COMPONENTS, EXPLOSIVE TRAIN, N.O.S.	Articles containing an explosive designed to transmit the detonation or deflagration within an explosive train.
CONTRIVANCES, WATER-ACTIVATED with burster, expelling charge or propelling charge	Articles whose functioning depends upon reaction of their contents with water and/or pressure. Contact with water should be avoided during transport.
CORD (FUSE), DETONATING, MILD EFFECT metal-clad	Article consisting of a core of detonating explosive clad by a soft metal tube with or without protective covering. The quantity of explosive substance is so small that only a mild effect is manifested outside the cord.
CORD (FUSE), DETONATING metal-clad	Article consisting of a core of detonating explosive enclosed in spun fabric with plastics or other covering unless the spun fabric is sift-proof

CORD, DETONATING flexible	Article consisting of a core of detonating explosive clad by a soft metal tube with or without protective covering.
CORD, IGNITER	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 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	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	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 may incorporate delay elements. Detonating relays incorporating detonating cord are included.
DETONATORS FOR AMMUNITION	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 the detonation train.
DETONATORS, ELECTRIC for blasting	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, NON-ELECTRIC for blasting	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	Substances consisting of liquid organic nitrates such as nitroglycerin 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. Such explosives should be in powdery, gelatinous or elastic form. The term includes dynamite gelatine, blasting and gelatine dynamites

EXPLOSIVE, BLASTING, TYPE B	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. Such explosives should not contain nitroglycerin, similar liquid organic nitrates, or chlorates.
EXPLOSIVE, BLASTING, TYPE C	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. Such explosives should not contain nitroglycerin or similar liquid organic nitrates.
EXPLOSIVE, BLASTING, TYPE D	Substances consisting of a mixture of organic nitrated compounds and combustible materials such as hydrocarbons and aluminium powder. Such explosives should not contain nitrogylcerin, similar liquid organic nitrates, chlorates or ammonium nitrate. The term generally includes plastic explosives.
EXPLOSIVE, BLASTING, TYPE E	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. The term includes explosives, emulsion; explosives, slurry and explosives, water gel
FIREWORKS	Pyrotechnic articles designed for entertainment.
FLARES, AERIAL	Articles containing pyrotechnic substances which are designed to be dropped from an aircraft to illuminate, identify, signal or warn. These articles may burn very rapidly and with intense heat.
FLARES, SURFACE	Articles containing pyrotechnic substances which are designed for use on the surface to illuminate, identify, signal or warn. These articles may burn very rapidly and with intense heat.
FRACTURING DEVICES, EXPLOSIVE for oil wells, without detonator	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	Article consisting of a metal tube with a core of deflagrating explosive.

FUSE, NON-DETONATING	Article consisting of cotton yarns impregnated with fine black powder. It burns with an external flame and is used in ignition trains for fireworks etc.
FUSE, SAFETY	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.
FUSES, DETONATING	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.
FUSES, DETONATING with protective features	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 fuse must incorporate two or more effective protective features.
FUSES, IGNITING	Articles with 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 (1) (UN 0284 & UN 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 (2) (UN 0292 & UN 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	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.
IGNITERS	Articles containing one or more explosive substances designed to produce a deflagration in an explosive train. They may be actuated chemically, electrically or mechanically. UN 0325 and UN 0454 include squibs.
JET PERFORATING GUNS, CHARGED oil well, without detonator	Articles consisting of a steel tube or metallic strip containing shaped charges connected by detonating cord, without means of initiation.

LIGHTERS, FUSE	Articles of various design actuated by friction, percussion or electricity and used to ignite safety fuse.
MINES with bursting charge (1) (UN 0136 & UN 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.
MINES with bursting charge (2) (UN 0137 & UN 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.
PRIMERS, CAP TYPE	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	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.
PROJECTILES inert, with tracer	Articles such as inert filled shells, solid shot or bullet containing a tracer which are projected from a cannon or other gun, rifle or other small arm.
PROJECTILES with burster or expelling charge (1) (UN 0346 & UN 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 (2) (UN 0426 & UN 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 (3) (UN 0434 & UN 0435)	Articles such as a shell or bullet which are projected from a cannon or other gun, rifle or other small arm and may have a fuse. They are used to scatter dyes for spotting or other inert materials.

PROJECTILES with bursting charge (1) (UN 0167 & UN 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.
PROJECTILES with bursting charge (2) (UN 0168, UN 0169 & UN 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.
RELEASE DEVICES, EXPLOSIVE	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	Articles consisting of a small charge of explosive inside a metallic rivet.
ROCKET MOTORS	Articles containing a charge of explosive, generally a solid propellant. They are designed to propel a rocket or a guided missile.
ROCKET MOTORS WITH HYPERGOLIC LIQUIDS with or without an expelling charge	Articles containing a liquid fuel and a liquid oxidizer. They are designed to propel a rocket or a guided missile.
ROCKET MOTORS, LIQUID FUELLED	Articles containing liquid fuel. They are designed to propel a rocket or a guided missile.
ROCKETS, LINE-THROWING	Articles consisting of a rocket motor which is designed to extend a line.
ROCKETS, LIQUID FUELLED with bursting charge	Articles containing liquid fuels for propulsion fitted with a warhead. The warhead may or may not have a means of initiation, which will generally have effective protective features. The term includes guided missiles.
ROCKETS with bursting charge (1) (UN 0180 & UN 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 bursting charge (2) (UN 0181 & UN 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 expelling charge	Articles consisting of a rocket motor and a charge to expel the payload from the rocket head. The term includes guided missiles.
ROCKETS with inert head	Articles consisting of a rocket motor and an inert head. The term includes guided missiles.

SIGNAL DEVICES, HAND	Portable and hand-held articles containing pyrotechnic substances which produce visual signals or warnings. They include small flares, railway fuses and small distress flares.
SIGNALS, DISTRESS, ship	Articles containing pyrotechnic substances designed to produce signals by means of sound, flame or smoke or any combinations thereof.
SIGNALS, RAILWAY TRACK, EXPLOSIVE	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	Articles containing pyrotechnic substances which produce coloured smoke and, if with explosive sound unit, an audible signal.
SOUNDING DEVICES, EXPLOSIVE (1) (UN 0296 & UN 0204)	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.
SOUNDING DEVICES, EXPLOSIVE (2) (UN 0374 & UN 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.
TORPEDOES, LIQUID-FUELLED with inert head	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	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. The warhead may or may not have a means of initiation; if fitted, it will generally have effective protective features.
TORPEDOES with bursting charge (1) (UN 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 (2) (UN 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.

TORPEDOES with bursting charge (3) (UN 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.
TRACERS FOR AMMUNITION	Articles containing pyrotechnic substances, designed to reveal the trajectory of a projectile.
WARHEADS, ROCKET with burster or expelling charge (1) (UN 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 (2) (UN 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 (1) (UN 0286 & UN 0287)	Articles consisting of detonating explosives, 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 (2) (UN 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	Articles consisting of detonating explosives, 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.

INDEX

In this Index, the word "*see*", after the name in the substance, material or article column, means that it is a synonym and for details regarding the transport provisions reference shall be made to the entry in the Dangerous Goods List (chapter 3.2) which is relevant to the UN Number/Proper Shipping Name stated against the synonym.

Method of indexing

Substances, materials and articles have been listed in the alphabetical order of their names. For the purpose of determining the alphabetical order, numbers and roman numerals (I), (II) etc. and the prefixes listed below have been disregarded, although they form an integral part of the name:

N-	*sym-*
n- or *normal-*	*uns-*
sec- or *secondary-*	*cis-*
tert- or *tertiary-*	*trans-*
o- or *ortho-*	*d-*
m- or *meta-*	*a-* or *alpha-*
p- or *para-*	*ß-* or *beta-*
	?- or *gamma-*

Note 1

Certain marine pollutants ~~or severe marine pollutants~~ are identified only in the Index. These marine pollutants ~~or severe marine pollutants~~ have not been assigned to an N.O.S. or generic entry. These marine pollutants ~~or severe marine pollutants~~ may possess properties of classes 1 to 8 and shall be classified accordingly. A substance which does not fall within the criteria of these classes should be offered for transport as an ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., UN 3077, or as an ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., UN 3082, under these entries in class 9.

Substance, material or article	MP	Class	UN No.
ACETAL	–	3	1088
ACETALDEHYDE	–	3	1089
ACETALDEHYDE AMMONIA	–	9	1841
Acetaldehyde Diethyl Acetal, *see*	–	3	1088
ACETALDEHYDE OXIME	–	3	2332
Acetaldol, *see*	–	6.1	2839
beta-Acetaldoxime, *see*	–	3	2332
ACETIC ACID, GLACIAL	–	8	2789
ACETIC ACID SOLUTION more than 10% and less than 50% acid, by mass	–	8	2790
ACETIC ACID SOLUTION more than 80% acid, by mass	–	8	2789
ACETIC ACID SOLUTION not less than 50% but not more than 80% acid, by mass	–	8	2790
Acetic Aldehyde, *see*	–	3	1089
ACETIC ANHYDRIDE	–	8	1715
Acetic Oxide, *see*	–	8	1715
Acetoin, *see*	–	3	2621
ACETONE	–	3	1090
ACETONE CYANOHYDRIN, STABILIZED	P	6.1	1541
Acetone Hexafluoride, *see*	–	2.3	2420
ACETONE OILS	–	3	1091
ACETONE SOLUTIONS	–	3	1090
ACETONITRILE	–	3	1648
3-Acetoxypropene, *see*	–	3	2333
Acetylacetone, *see*	–	3	2310
Acetyl Acetone Peroxide (concentration ≤ 32%, as a paste, with diluent Type A, with or without water), *see*	–	5.2	3106
Acetyl Acetone Peroxide (concentration ≤ 42%, with diluent Type A and water, available oxygen ≤ 4.7%), *see*	–	5.2	3105
ACETYL BROMIDE	–	8	1716
ACETYL CHLORIDE	–	3	1717
Acetyl Cyclohexane-sulphonyl Peroxide (concentration ≤ 32%, with diluent Type B), *see*	–	5.2	3115
Acetyl Cyclohexane-sulphonyl Peroxide (concentration ≤ 82%, with water), *see*	–	5.2	3112
Acetylene Dichloride, *see*	–	3	1150
ACETYLENE, DISSOLVED	–	2.1	1001
Acetylene, Ethylene and Propylene Mixtures, Refrigerated Liquid, *see*	–	2.1	3138
ACETYLENE, SOLVENT FREE	–	2.1	3374
Acetylene Tetrabromide, *see*	P	6.1	2504
Acetylene Tetrachloride, *see*	P	6.1	1702
ACETYL IODIDE	–	8	1898
Acetyl Ketene, Stabilized, *see*	–	6.1	2521
ACETYL METHYL CARBINOL	–	3	2621
Acid Butyl Phosphate, *see*	–	8	1718
Acid Mixture, Hydrofluoric and Sulphuric, *see*	–	8	1786

Acid Mixture, Nitrating Acid, *see*	–	8	1796
Acid Mixture, Spent, Nitrating Acid, *see*	–	8	1826
Acraldehyde, Stabilized, *see*	P	6.1	1092
ACRIDINE	–	6.1	2713
Acroleic Acid, Stabilized, *see*	–	8	2218
Acrolein Diethyl Acetal, *see*	–	3	2374
ACROLEIN DIMER, STABILIZED	–	3	2607
ACROLEIN, STABILIZED	P	6.1	1092
ACRYLAMIDE, SOLID	–	6.1	2074
ACRYLAMIDE SOLUTION	–	6.1	3426
Acrylic Acid Isobutyl Ester, Stabilized, *see*	–	3	2527
ACRYLIC ACID, STABILIZED	–	8	2218
Acrylic Aldehyde, Stabilized, *see*	P	6.1	1092
ACRYLONITRILE, STABILIZED	–	3	1093
Actinolite, *see*	–	9	2590
Activated Carbon, *see*	–	4.2	1362
Activated Charcoal, *see*	–	4.2	1362
ADHESIVES containing flammable liquid	▼	3	1133
ADIPONITRILE	–	6.1	2205
Aeroplane flares, *see* FLARES, AERIAL	–	–	–
AEROSOLS	▼	2	1950
AGENT, BLASTING, TYPE B	–	1.5D	0331
AGENT, BLASTING, TYPE E	–	1.5D	0332
AIR BAG INFLATORS	–	1.4G	0503
AIR BAG INFLATORS	–	9	3268
AIR BAG MODULES	–	1.4G	0503
AIR BAG MODULES	–	9	3268
AIR, COMPRESSED	–	2.2	1002
AIRCRAFT HYDRAULIC POWER UNIT FUEL TANK (containing a mixture of anhydrous hydrazine and methylhydrazine)	–	3	3165
AIR, REFRIGERATED LIQUID	–	2.2	1003
Alcohol, *see*	–	3	1170
ALCOHOLATES SOLUTION, N.O.S. in alcohol	▼	3	3274
Alcohol C_{12}–C_{16} Poly(1–6)ethoxylate, *see*	P	9	3082
Alcohol C_6–C_{17} (secondary) Poly(3–6)ethoxylate, *see*	P	9	3082
Alcohol, Denatured, *see*	–	3	1170
Alcohol, Denatured Solutions, *see*	–	3	1170
ALCOHOLIC BEVERAGES with more than 24% but not more than 70% alcohol by volume	–	3	3065
ALCOHOLIC BEVERAGES with more than 70% alcohol by volume	–	3	3065
Alcohol, Industrial, *see*	–	3	1170
Alcohol, Industrial Solutions, *see*	–	3	1170
ALCOHOLS, FLAMMABLE, TOXIC, N.O.S.	▼	3	1986
ALCOHOLS, N.O.S.	▼	3	1987
Alcohol Solutions, *see*	–	3	1170
ALDEHYDES, FLAMMABLE, TOXIC, N.O.S.	▼	3	1988
ALDEHYDES, N.O.S.	▼	3	1989

Aldicarb, *see* CARBAMATE PESTICIDES	P	–	–
ALDOL	–	6.1	2839
Aldrin, *see* ORGANOCHLORINE PESTICIDE	PP P	–	–
ALKALI METAL ALCOHOLATES, SELF-HEATING, CORROSIVE, N.O.S.	-	4.2	3206
ALKALI METAL ALLOY, LIQUID, N.O.S.	-	4.3	1421
ALKALI METAL AMALGAM, LIQUID	-	4.3	1389
ALKALI METAL AMALGAM, SOLID	-	4.3	3401
ALKALI METAL AMIDE	–	4.3	1390
ALKALI METAL DISPERSION	–	4.3	1391
Alkaline Caustic Liquid, N.O.S., *see*	-	8	1719
ALKALINE EARTH METAL ALCOHOLATES, N.O.S.	-	4.2	3205
ALKALINE EARTH METAL ALLOY, N.O.S.	-	4.3	1393
ALKALINE EARTH METAL AMALGAM, LIQUID	-	4.3	1392
ALKALINE EARTH METAL AMALGAM, SOLID	-	4.3	3402
ALKALINE EARTH METAL DISPERSION	–	4.3	1391
Alkaloids and Alkaloid Salts (pesticides), *see* PESTICIDE, N.O.S.	–	–	–
ALKALOIDS, LIQUID, N.O.S.	-	6.1	3140
ALKALOIDS SALTS, LIQUID, N.O.S.	-	6.1	3140
ALKALOIDS SALTS, SOLID, N.O.S.	-	6.1	1544
ALKALOIDS, SOLID, N.O.S.	-	6.1	1544
Alkyl(C_{12}–C_{14})dimethylamine, *see* **Note 1**	P	–	–
Alkyl (C_7–C_9) Nitrates, *see* **Note 1**	P	–	–
Alkylbenzenesulphonates, branched and straight chain (excluding C_{11}–C_{13} branched and straight chain homologues), *see*	P	9	3082
ALKYLPHENOLS, LIQUID, N.O.S. (including C_2–C_{12} homologues)	-	8	3145
ALKYLPHENOLS, SOLID, N.O.S. (including C_2–C_{12} homologues)	-	8	2430
ALKYLSULPHONIC ACIDS, LIQUID with more than 5% free sulphuric acid	–	8	2584
ALKYLSULPHONIC ACIDS, LIQUID with not more than 5% free sulphuric acid	–	8	2586
ALKYLSULPHONIC ACIDS, SOLID with more than 5% free sulphuric acid	–	8	2583
ALKYLSULPHONIC ACIDS, SOLID with not more than 5% free sulphuric acid	–	8	2585
ALKYLSULPHURIC ACIDS	–	8	2571
Allene, Stabilized, *see*	–	2.1	2200
Allidochlor, *see* PESTICIDE, N.O.S.	–	–	–
ALLYL ACETATE	–	3	2333
ALLYL ALCOHOL	–	6.1	1098
ALLYLAMINE	–	6.1	2334
ALLYL BROMIDE	P	3	1099
ALLYL CHLORIDE	–	3	1100
Allyl Chlorocarbonate, *see*	–	6.1	1722
ALLYL CHLOROFORMATE	–	6.1	1722
ALLYL ETHYL ETHER	–	3	2335
ALLYL FORMATE	–	3	2336
ALLYL GLYCIDYL ETHER	–	3	2219
ALLYL IODIDE	–	3	1723
ALLYL ISOTHIOCYANATE, STABILIZED	–	6.1	1545

Allyl Mustard Oil, Stabilized, *see*	–	6.1	1545
ALLYLTRICHLOROSILANE, STABILIZED	–	8	1724
ALUMINIUM BOROHYDRIDE	–	4.2	2870
ALUMINIUM BOROHYDRIDE IN DEVICES	–	4.2	2870
ALUMINIUM BROMIDE, ANHYDROUS	–	8	1725
ALUMINIUM BROMIDE SOLUTION	–	8	2580
ALUMINIUM CARBIDE	–	4.3	1394
ALUMINIUM CHLORIDE, ANHYDROUS	–	8	1726
ALUMINIUM CHLORIDE SOLUTION	–	8	2581
Aluminium Dross, *see*	–	4.3	3170
ALUMINIUM FERROSILICON POWDER	–	4.3	1395
ALUMINIUM HYDRIDE	–	4.3	2463
ALUMINIUM NITRATE	–	5.1	1438
ALUMINIUM PHOSPHIDE	–	4.3	1397
ALUMINIUM PHOSPHIDE PESTICIDE	–	6.1	3048
ALUMINIUM POWDER, COATED	–	4.1	1309
Aluminium Powder, Pyrophoric, *see*	÷	4.2	1383
ALUMINIUM POWDER, UNCOATED	–	4.3	1396
ALUMINIUM REMELTING BY-PRODUCTS	–	4.3	3170
Aluminium Residues, *see*	–	4.3	3170
ALUMINIUM RESINATE	–	4.1	2715
ALUMINIUM SILICON POWDER, UNCOATED	–	4.3	1398
Aluminium Skimmings, *see*	–	4.3	3170
ALUMINIUM SMELTING BY-PRODUCTS	–	4.3	3170
Amatols, *see* EXPLOSIVE, BLASTING, TYPE B	–	–	–
AMINES, FLAMMABLE, CORROSIVE, N.O.S.	÷	3	2733
AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S.	÷	8	2734
AMINES, LIQUID, CORROSIVE, N.O.S.	÷	8	2735
AMINES, SOLID, CORROSIVE, N.O.S.	÷	8	3259
1-Amino-3-aminomethyl-3,5,5-trimethylcyclohexane, *see*	–	8	2289
ortho-Aminoanisole, *see*	–	6.1	2431
Aminobenzene, *see*	–	6.1	1547
2-Aminobenzotrifluoride, *see*	–	6.1	2942
3-Aminobenzotrifluoride, *see*	–	6.1	2948
1-Aminobutane, *see*	–	3	1125
Aminocarb, *see* CARBAMATE PESTICIDE	P	–	–
2-AMINO-4-CHLOROPHENOL	–	6.1	2673
Aminocyclohexane, *see*	–	8	2357
2-AMINO-5-DIETHYLAMINOPENTANE	–	6.1	2946
Aminodimethylbenzenes, Liquid, *see*	–	6.1	1711
Aminodimethylbenzenes, Solid, *see*	–	6.1	3452
2-AMINO-4,6-DINITROPHENOL, WETTED with not less than 20% water by mass	–	4.1	3317
Aminoethane, *see*	–	2.1	1036
Aminoethane, Aqueous Solution, *see*	–	3	2270
1-Aminoethanol, *see*	–	9	1841
2-Aminoethanol, *see*	–	8	2491

2-(2-AMINOETHOXY)ETHANOL	–	8	3055
N-AMINOETHYLPIPERAZINE	–	8	2815
Aminomethane, Anhydrous, *see*	–	2.1	1061
Aminomethane, Aqueous Solution, *see*	–	3	1235
1-Amino-2-methylpropane, *see*	–	3	1214
3-Aminomethyl-3,5,5-trimethylcyclohexylamine, *see*	–	8	2289
1-Amino-2-nitrobenzene, *see*	–	6.1	1661
1-Amino-3-nitrobenzene, *see*	–	6.1	1661
1-Amino-4-nitrobenzene, *see*	–	6.1	1661
Aminophenetoles, *see*	–	6.1	2311
AMINOPHENOLS (*o*-, *m*-, *p*-)	–	6.1	2512
1-Aminopropane, *see*	–	3	1277
2-Aminopropane, *see*	–	3	1221
3-Aminopropene, *see*	–	6.1	2334
AMINOPYRIDINES	–	6.1	2671
Aminosulphonic Acid, *see*	–	8	2967
AMMONIA, ANHYDROUS	–	2.3	1005
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, by mass	–	8	2672
AMMONIA SOLUTION relative density less than 0.880 at 15°C in water, with more than 35% but not more than 50% ammonia	–	2.2	2073
AMMONIA SOLUTION relative density less than 0.880 at 15°C in water, with more than 50% ammonia	–	2.3	3318
Ammonium Acid Fluoride, Solid, *see*	–	8	1727
Ammonium Acid Fluoride Solution, *see*	–	8	2817
AMMONIUM ARSENATE	–	6.1	1546
Ammonium Bichromate, *see*	–	5.1	1439
Ammonium Bifluoride, Solid, *see*	–	8	1727
Ammonium Bifluoride Solution, *see*	–	8	2817
Ammonium Bisulphate, *see*	–	8	2506
Ammonium Bisulphite Solution, *see*	–	8	2693
Ammonium Bromate **(transport prohibited)**	–	–	–
Ammonium Bromate Solution **(transport prohibited)**	–	–	–
Ammonium Chlorate **(transport prohibited)**	–	–	–
Ammonium Chlorate Solution **(transport prohibited)**	–	–	–
Ammonium Chlorite **(transport prohibited)**	–	–	–
AMMONIUM DICHROMATE	–	5.1	1439
AMMONIUM DINITRO-*o*-CRESOLATE, SOLID	P	6.1	1843
AMMONIUM DINITRO-*o*-CRESOLATE SOLUTION	P	6.1	3424
AMMONIUM FLUORIDE	–	6.1	2505
AMMONIUM FLUOROSILICATE	–	6.1	2854
Ammonium Hexafluorosilicate, *see*	–	6.1	2854
AMMONIUM HYDROGENDIFLUORIDE, SOLID	–	8	1727
AMMONIUM HYDROGENDIFLUORIDE SOLUTION	–	8	2817
AMMONIUM HYDROGEN SULPHATE	–	8	2506
Ammonium Hypochlorite **(transport prohibited)**	–	–	–
AMMONIUM METAVANADATE	–	6.1	2859
AMMONIUM NITRATE BASED FERTILIZER	–	5.1	2067

AMMONIUM NITRATE BASED FERTILIZER	–	9	2071
AMMONIUM NITRATE EMULSION intermediate for blasting explosives	–	5.1	3375
AMMONIUM NITRATE GEL intermediate for blasting explosives	–	5.1	3375
AMMONIUM NITRATE liable to self-heating sufficient to initiate decomposition **(transport prohibited)**	–	–	–
AMMONIUM NITRATE, LIQUID (hot concentrated solution)	–	5.1	2426
AMMONIUM NITRATE SUSPENSION intermediate for blasting explosives	–	5.1	3375
AMMONIUM NITRATE with more than 0.2% by mass of combustible substances, including any organic substance calculated as carbon, to the exclusion of any other added substance	–	1.1D	0222
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	1942
Ammonium Nitrite **(transport prohibited)**	–	–	–
Ammonium Nitrites and mixtures of an inorganic nitrite with an ammonium salt **(transport prohibited)**	–	–	–
AMMONIUM PERCHLORATE	–	1.1D	0402
AMMONIUM PERCHLORATE	–	5.1	1442
Ammonium Permanganate **(transport prohibited)**	–	–	–
Ammonium Permanganate Solution **(transport prohibited)**	–	–	–
AMMONIUM PERSULPHATE	–	5.1	1444
AMMONIUM PICRATE dry or wetted with less then 10% water, by mass	–	1.1D	0004
AMMONIUM PICRATE, WETTED with not less than 10% water, by mass	–	4.1	1310
AMMONIUM POLYSULPHIDE SOLUTION	–	8	2818
AMMONIUM POLYVANADATE	–	6.1	2861
Ammonium Silicofluoride, *see*	–	6.1	2854
AMMONIUM SULPHIDE SOLUTION	–	8	2683
Ammonium Vanadate, *see*	–	6.1	2859
Ammunition, Blank, *see* CARTRIDGES FOR WEAPONS, BLANK	–	–	–
Ammunition, fixed, semi-fixed or separate loading, *see* CARTRIDGES FOR WEAPONS with bursting charge	–	–	–
AMMUNITION, ILLUMINATING with or without burster, expelling charge or propelling charge	–	1.2G	0171
AMMUNITION, ILLUMINATING with or without burster, expelling charge or propelling charge	–	1.3G	0254
AMMUNITION, ILLUMINATING with or without burster, expelling charge or propelling charge	–	1.4G	0297
Ammunition, Incendiary (water-activated contrivances) with burster, expelling charge or propelling charge, *see* CONTRIVANCES, WATER-ACTIVATED	–	–	–
AMMUNITION, INCENDIARY liquid or gel, with burster, expelling charge or propelling charge	–	1.3J	0247
AMMUNITION, INCENDIARY, WHITE PHOSPHORUS with burster, expelling charge or propelling charge	–	1.2H	0243
AMMUNITION, INCENDIARY, WHITE PHOSPHORUS with burster, expelling charge or propelling charge	–	1.3H	0244
AMMUNITION, INCENDIARY with or without burster, expelling charge or propelling charge	–	1.2G	0009
AMMUNITION, INCENDIARY with or without burster, expelling charge or propelling charge	–	1.3G	0010
AMMUNITION, INCENDIARY with or without burster, expelling charge or propelling charge	–	1.4G	0300

Ammunition, Industrial, *see* CARTRIDGES, OIL WELL and CARTRIDGES, POWER DEVICE	–	–	–
Ammunition, Lachrymatory, *see* AMMUNITION, TEAR-PRODUCING	–	–	–
AMMUNITION, PRACTICE	–	1.3G	0488
AMMUNITION, PRACTICE	–	1.4G	0362
AMMUNITION, PROOF	–	1.4G	0363
Ammunition, Smoke (water-activated contrivances), *see* CONTRIVANCES, WATER-ACTIVATED	–	–	–
AMMUNITION, SMOKE, WHITE PHOSPHORUS with burster, expelling charge or propelling charge	–	1.2H	0245
AMMUNITION, SMOKE, WHITE PHOSPHORUS with burster, expelling charge or propelling charge	–	1.3H	0246
AMMUNITION, SMOKE with or without burster, expelling charge or propelling charge	–	1.2G	0015
AMMUNITION, SMOKE with or without burster, expelling charge or propelling charge	–	1.3G	0016
AMMUNITION, SMOKE with or without burster, expelling charge or propelling charge	–	1.4G	0303
Ammunition, Sporting, *see* CARTRIDGES FOR WEAPONS, INERT PROJECTILES	–	–	–
AMMUNITION, TEAR-PRODUCING, NON-EXPLOSIVE without burster or expelling charge, non-fuzed	–	6.1	2017
AMMUNITION, TEAR-PRODUCING with burster, expelling charge or propelling charge	–	1.2G	0018
AMMUNITION, TEAR-PRODUCING with burster, expelling charge or propelling charge	–	1.3G	0019
AMMUNITION, TEAR-PRODUCING with burster, expelling charge or propelling charge	–	1.4G	0301
AMMUNITION, TOXIC, NON-EXPLOSIVE without burster or expelling charge, non-fuzed	–	6.1	2016
AMMUNITION, TOXIC with burster, expelling charge or propelling charge	–	1.2K	0020
AMMUNITION, TOXIC with burster, expelling charge or propelling charge	–	1.3K	0021
Amorces, *see* FIREWORKS	–	–	–
Amosite, *see*	–	9	2212
AMYL ACETATES	–	3	1104
AMYL ACID PHOSPHATE	–	8	2819
Amyl Alcohols, *see*	–	3	1105
Amyl Aldehyde, *see*	–	3	2058
AMYLAMINES	–	3	1106
n-Amylbenzene, *see* **Note 1**	P	–	–
secondary-Amyl Bromide, *see*	–	3	2343
AMYL BUTYRATES	–	3	2620
Amyl Carbinol, *see*	–	3	2282
AMYL CHLORIDES	–	3	1107
n-AMYLENE	–	3	1108
AMYL FORMATES	–	3	1109
tert-Amyl Hydroperoxide (concentration ≤ 88%, with diluent Type A and water), *see*	–	5.2	3107
tertiary-Amyl Mercaptan, *see*	–	3	1111

normal-Amyl Mercaptan, *see*	–	3	1111
AMYL MERCAPTANS	–	3	1111
AMYL METHYL KETONE	–	3	1110
AMYL NITRATES	–	3	1112
AMYL NITRITE	–	3	1113
normal-Amyl Nitrite, *see*	–	3	1113
tert-Amyl Peroxyacetate (concentration 62%, with diluent Type A), *see*	–	5.2	3105
tert-Amyl Peroxybenzoate (concentration ≤ 100%), *see*	–	5.2	3103
tert-Amyl Peroxy -2-ethylhexanoate (concentration ≤100%), *see*	–	5.2	3115
tert-Amyl Peroxy -2-ethylhexyl Carbonate (concentration ≤ 100%), *see*	–	5.2	3105
tert-Amyl Peroxyisopropyl Carbonate (concentration ≤ 77%, with diluent Type A), *see*	–	5.2	3103
tert-Amyl Peroxyneodecanoate (concentration ≤ 77% with diluent Type B), *see*	–	5.2	3115
tert-Amyl Peroxypivalate (concentration ≤ 77%, with diluent Type B), *see*	–	5.2	3113
tert-Amyl Peroxy -3,5,5-trimethylhexanoate (concentration ≤ 100%), *see*	–	5.2	3101
AMYLTRICHLOROSILANE	–	8	1728
ANILINE	–	6.1	1547
Aniline Chloride, *see*	–	6.1	1548
ANILINE HYDROCHLORIDE	–	6.1	1548
Aniline Oil, *see*	–	6.1	1547
Aniline Salt, *see*	–	6.1	1548
Animal Fabrics, Oily, *see*	-	4.2	1373
Animal Fibres, burnt, wet or damp, *see*	–	4.2	1372
Animal Fibres, Oily, *see*	-	4.2	1373
ortho-ANISIDINE	–	6.1	2431
ANISOLE	–	3	2222
ANISOYL CHLORIDE	–	8	1729
Anthophyllite, *see*	–	9	2590
Antimony Chloride, Liquid, *see*	–	8	1733
Antimony Chloride, Solid, *see*	–	8	1733
ANTIMONY COMPOUND, INORGANIC, LIQUID, N.O.S.	–	6.1	3141
ANTIMONY COMPOUND, INORGANIC, SOLID, N.O.S.	–	6.1	1549
Antimony Hydride, *see*	–	2.3	2676
ANTIMONY LACTATE	–	6.1	1550
Antimony (III) Lactate, *see*	–	6.1	1550
ANTIMONY PENTACHLORIDE, LIQUID	–	8	1730
ANTIMONY PENTACHLORIDE SOLUTION	–	8	1731
ANTIMONY PENTAFLUORIDE	–	8	1732
Antimony Perchloride, Liquid, *see*	–	8	1730
Antimony Perchloride Solution, *see*	–	8	1731
ANTIMONY POTASSIUM TARTRATE	–	6.1	1551
ANTIMONY POWDER	–	6.1	2871
ANTIMONY TRICHLORIDE	–	8	1733
Antimony Trihydride, *see*	–	2.3	2676
A.n.t.u., *see also* PESTICIDE, N.O.S.	–	6.1	1651

Aqua Regia, *see*	–	8	1798
ARGON, COMPRESSED	–	2.2	1006
ARGON, REFRIGERATED LIQUID	–	2.2	1951
Arsenates, Liquid, N.O.S., Inorganic, *see*	₹	6.1	1556
Arsenates, Solid, N.O.S., Inorganic, *see*	₹	6.1	1557
ARSENIC	–	6.1	1558
ARSENIC ACID, LIQUID	–	6.1	1553
ARSENIC ACID, SOLID	–	6.1	1554
ARSENICAL DUST	–	6.1	1562
Arsenical Flue Dust, *see*	–	6.1	1562
ARSENICAL PESTICIDE, LIQUID, FLAMMABLE, TOXIC flashpoint less than 23°C	₹	3	2760
ARSENICAL PESTICIDE, LIQUID, TOXIC	₹	6.1	2994
ARSENICAL PESTICIDE, LIQUID, TOXIC, FLAMMABLE flashpoint not less than 23°C	₹	6.1	2993
ARSENICAL PESTICIDE, SOLID, TOXIC	₹	6.1	2759
ARSENIC BROMIDE	–	6.1	1555
Arsenic (III) Bromide, *see*	–	6.1	1555
Arsenic Chloride, *see*	–	6.1	1560
ARSENIC COMPOUND, LIQUID, N.O.S. inorganic, including: Arsenates, n.o.s., Arsenites, n.o.s., and Arsenic sulphides, n.o.s.	₹	6.1	1556
Arsenic Compounds (pesticides), *see* ARSENICAL PESTICIDE	–	–	–
ARSENIC COMPOUND, SOLID, N.O.S. inorganic, including: Arsenates, n.o.s., Arsenites, n.o.s., and Arsenic sulphides, n.o.s.	₹	6.1	1557
Arsenic Hydride, *see*	–	2.3	2188
Arsenic (III) Oxide, *see*	–	6.1	1561
Arsenic (V) Oxide, *see*	–	6.1	1559
ARSENIC PENTOXIDE	–	6.1	1559
Arsenic Sulphides, Liquid, N.O.S., Inorganic, *see*	₹	6.1	1556
Arsenic Sulphides, Solid, N.O.S., Inorganic, *see*	₹	6.1	1557
Arsenic Tribromide, *see*	–	6.1	1555
ARSENIC TRICHLORIDE	–	6.1	1560
ARSENIC TRIOXIDE	–	6.1	1561
Arsenious Chloride, *see*	–	6.1	1560
Arsenites, Liquid, N.O.S., Inorganic, *see*	₹	6.1	1556
Arsenites, Solid, N.O.S., Inorganic, *see*	₹	6.1	1557
Arsenous Bromide, *see*	–	6.1	1555
Arsenous Chloride, *see*	–	6.1	1560
ARSINE	–	2.3	2188
ARTICLES, EEI	–	1.6N	0486
ARTICLES, EXPLOSIVE, EXTREMELY INSENSITIVE	–	1.6N	0486
ARTICLES, EXPLOSIVE, N.O.S.	–	1.1C	0462
ARTICLES, EXPLOSIVE, N.O.S.	–	1.1D	0463
ARTICLES, EXPLOSIVE, N.O.S.	–	1.1E	0464
ARTICLES, EXPLOSIVE, N.O.S.	–	1.1F	0465
ARTICLES, EXPLOSIVE, N.O.S.	–	1.1L	0354
ARTICLES, EXPLOSIVE, N.O.S.	–	1.2C	0466
ARTICLES, EXPLOSIVE, N.O.S.	–	1.2D	0467

ARTICLES, EXPLOSIVE, N.O.S.	–	1.2E	0468
ARTICLES, EXPLOSIVE, N.O.S.	–	1.2F	0469
ARTICLES, EXPLOSIVE, N.O.S.	–	1.2L	0355
ARTICLES, EXPLOSIVE, N.O.S.	–	1.3C	0470
ARTICLES, EXPLOSIVE, N.O.S.	–	1.3L	0356
ARTICLES, EXPLOSIVE, N.O.S.	–	1.4B	0350
ARTICLES, EXPLOSIVE, N.O.S.	–	1.4C	0351
ARTICLES, EXPLOSIVE, N.O.S.	–	1.4D	0352
ARTICLES, EXPLOSIVE, N.O.S.	–	1.4E	0471
ARTICLES, EXPLOSIVE, N.O.S.	–	1.4F	0472
ARTICLES, EXPLOSIVE, N.O.S.	–	1.4G	0353
ARTICLES, EXPLOSIVE, N.O.S.	–	1.4S	0349
ARTICLES, PRESSURIZED, HYDRAULIC (containing non-flammable gas)	-	2.2	3164
ARTICLES, PRESSURIZED, PNEUMATIC (containing non-flammable gas)	-	2.2	3164
ARTICLES, PYROPHORIC	–	1.2L	0380
ARTICLES, PYROTECHNIC for technical purposes	–	1.1G	0428
ARTICLES, PYROTECHNIC for technical purposes	–	1.2G	0429
ARTICLES, PYROTECHNIC for technical purposes	–	1.3G	0430
ARTICLES, PYROTECHNIC for technical purposes	–	1.4G	0431
ARTICLES, PYROTECHNIC for technical purposes	–	1.4S	0432
ARYLSULPHONIC ACIDS, LIQUID with more than 5% free sulphuric acid	–	8	2584
ARYLSULPHONIC ACIDS, LIQUID with not more than 5% free sulphuric acid	–	8	2586
ARYLSULPHONIC ACIDS, SOLID with more than 5% free sulphuric acid	–	8	2583
ARYLSULPHONIC ACIDS, SOLID with not more than 5% free sulphuric acid	–	8	2585
Asbestos, *see* BLUE ASBESTOS	–	9	2212
Asbestos, *see* BROWN ASBESTOS	–	9	2212
Asbestos, *see* WHITE ASBESTOS	–	9	2590
Asphalt, *see*	-	3	1999
Aviation Gasoline, *see*	–	3	1863
AVIATION REGULATED LIQUID, N.O.S.	–	9	3334
AVIATION REGULATED SOLID, N.O.S.	–	9	3335
Azinphos-ethyl, *see* ORGANOPHOSPHORUS PESTICIDE	PP P	–	–
Azinphos-methyl, *see* ORGANOPHOSPHORUS PESTICIDE	PP P	–	–
Aziridine, Stabilized, *see*	–	6.1	1185
1,10-Azodi(hexahydrobenzonitrile) (concentration 100%), *see*	–	4.1	3226
2,20-Azodi(isobutyronitrile) (concentration 100%), *see*	–	4.1	3234
2,20-Azodi(isobutyronitrile), as a water-based paste (concentration ≤ 50%), *see*	–	4.1	3224
AZODICARBONAMIDE	–	4.1	3242
Azodicarbonamide Formulation Type B (concentration <100%), *see*	–	4.1	3232
Azodicarbonamide Formulation Type C (concentration <100%), *see*	–	4.1	3224
Azodicarbonamide Formulation Type C (concentration <100%), temperature controlled, *see*	–	4.1	3234
Azodicarbonamide Formulation Type D (concentration <100%), *see*	–	4.1	3226

Azodicarbonamide Formulation Type D (concentration <100%), temperature controlled, *see*	–	4.1	3236
2,20-Azodi(2,4-dimethyl-4-methoxyvaleronitrile) (concentration 100%), *see*	–	4.1	3236
2,20-Azodi(2,4-dimethylvaleronitrile) (concentration 100%), *see*	–	4.1	3236
2,20-Azodi(ethyl 2-methyl-propionate) (concentration 100%), *see*	–	4.1	3235
2,20-Azodi(2-methylbutyronitrile) (concentration 100%), *see*	–	4.1	3236
Bag Charges, *see* CHARGES, PROPELLING, FOR CANNON	–	–	–
Ballistite, *see* POWDER, SMOKELESS	–	–	–
Bangalore Torpedoes, *see* MINES, WITH BURSTING CHARGE	–	–	–
BARIUM	–	4.3	1400
Barium Alloys, non-pyrophoric, *see*	-	4.3	1393
BARIUM ALLOYS, PYROPHORIC	-	4.2	1854
Barium Amalgams, Liquid, *see*	-	4.3	1392
Barium Amalgams, Solid, *see*	-	4.3	3402
BARIUM AZIDE, dry or wetted with less than 50% water, by mass	–	1.1A	0224
BARIUM AZIDE, WETTED with not less than 50% water, by mass	–	4.1	1571
BARIUM BROMATE	–	5.1	2719
BARIUM CHLORATE, SOLID	–	5.1	1445
BARIUM CHLORATE SOLUTION	–	5.1	3405
BARIUM COMPOUND, N.O.S.	-	6.1	1564
BARIUM CYANIDE	P	6.1	1565
Barium Dispersions, *see*	–	4.3	1391
BARIUM HYPOCHLORITE with more than 22% available chlorine	–	5.1	2741
Barium Monoxide, *see*	–	6.1	1884
BARIUM NITRATE	–	5.1	1446
BARIUM OXIDE	–	6.1	1884
BARIUM PERCHLORATE, SOLID	–	5.1	1447
BARIUM PERCHLORATE SOLUTION	–	5.1	3406
BARIUM PERMANGANATE	–	5.1	1448
BARIUM PEROXIDE	–	5.1	1449
Barium Powder, Pyrophoric, *see*	-	4.2	1383
Batteries, containing Lithium, *see*	–	9	3090
BATTERIES, CONTAINING SODIUM	–	4.3	3292
BATTERIES, DRY, CONTAINING POTASSIUM HYDROXIDE, SOLID electric storage	–	8	3028
BATTERIES, WET, FILLED WITH ACID electric storage	–	8	2794
BATTERIES, WET, FILLED WITH ALKALI electric storage	–	8	2795
BATTERIES, WET, NON-SPILLABLE electric storage	–	8	2800
Battery Acid, *see*	–	8	2796
BATTERY FLUID, ACID	–	8	2796
BATTERY FLUID, ALKALI	–	8	2797
Battery, Lithium, *see*	–	9	3090
BATTERY-POWERED VEHICLE or BATTERY-POWERED EQUIPMENT	-	9	3171
Bendiocarb, *see* CARBAMATE PESTICIDE	P	–	–
Benfuracarb, *see* CARBAMATE PESTICIDE	–	–	–

Benomyl, *see* **Note 1**	P	–	–
Benquinox, *see* PESTICIDE, N.O.S.	P	–	–
Benzal Chloride, *see*	–	6.1	1886
BENZALDEHYDE	–	9	1990
BENZENE	–	3	1114
1,3-Benzenediol, *see*	–	6.1	2876
Benzene-1,3-disulphonylhydrazide, as a paste (concentration 52%), *see*	–	4.1	3226
Benzene Phosphorus Dichloride, *see*	–	8	2798
Benzene Phosphorus Thiochloride, *see*	–	8	2799
BENZENESULPHONYL CHLORIDE	–	8	2225
Benzene Sulphonylhydrazide (concentration 100%), *see*	–	4.1	3226
Benzenethiol, *see*	–	6.1	2337
Benzhydryl Bromide, *see*	–	8	1770
BENZIDINE	–	6.1	1885
Benzol, *see*	–	3	1114
Benzolene, *see*	–	3	1268
BENZONITRILE	–	6.1	2224
BENZOQUINONE	–	6.1	2587
Benzosulphochloride, *see*	–	8	2225
BENZOTRICHLORIDE	–	8	2226
BENZOTRIFLUORIDE	–	3	2338
BENZOYL CHLORIDE	–	8	1736
BENZYL BROMIDE	–	6.1	1737
BENZYL CHLORIDE	–	6.1	1738
Benzyl Chlorocarbonate, *see*	P	8	1739
BENZYL CHLOROFORMATE	P	8	1739
Benzyl Cyanide, *see*	–	6.1	2470
Benzyl Dichloride, *see*	–	6.1	1886
BENZYLDIMETHYLAMINE	–	8	2619
-(Benzyl(ethyl)amino)-3-ethoxybenzenediazonium Zinc Chloride (concentration 100%), *see*	–	4.1	3226
BENZYLIDENE CHLORIDE	–	6.1	1886
BENZYL IODIDE	–	6.1	2653
4-[Benzyl(methyl)amino]-3-ethoxybenzenediazonium Zinc Chloride (concentration 100%), *see*	–	4.1	3236
BERYLLIUM COMPOUND, N.O.S.	–	6.1	1566
BERYLLIUM NITRATE	–	5.1	2464
BERYLLIUM POWDER	–	6.1	1567
gamma-Bhc, *see* ORGANOCHLORINE PESTICIDE	PP P	–	–
BHUSA	–	4.1	1327
Bichloroacetic Acid, *see*	–	8	1764
BICYCLO[2.2.1]HEPTA-2,5-DIENE, STABILIZED	–	3	2251
Bifluorides, N.O.S., *see*	-	8	1740
Binapacryl, *see* SUBSTITUTED NITROPHENOL PESTICIDE	PP P	–	–
BIOLOGICAL SUBSTANCE, CATEGORY B	–	6.2	3373

BIOMEDICAL WASTE	–	6.2	3291
(BIO)MEDICAL WASTE, N.O.S	–	6.2	3291
BIPYRIDILIUM PESTICIDE, LIQUID, FLAMMABLE, TOXIC flashpoint less than 23°C	[illegible]	3	2782
BIPYRIDILIUM PESTICIDE, LIQUID, TOXIC	[illegible]	6.1	3016
BIPYRIDILIUM PESTICIDE, LIQUID, TOXIC, FLAMMABLE flashpoint not less than 23°C	[illegible]	6.1	3015
BIPYRIDILIUM PESTICIDE, SOLID, TOXIC	[illegible]	6.1	2781
Bis-, *see* Di-	–	–	–
N,*N*-Bis(2-hydroxyethyl)oleamide (loa), *see* **Note 1**	P	–	–
BISULPHATES, AQUEOUS SOLUTION	[illegible]	8	2837
BISULPHITES, AQUEOUS SOLUTION, N.O.S.	[illegible]	8	2693
Bitumen, *see*	[illegible]	3	1999
BLACK POWDER, COMPRESSED	–	1.1D	0028
BLACK POWDER granular, or as a meal	–	1.1D	0027
BLACK POWDER IN PELLETS	–	1.1D	0028
Blasticidin-S-3, *see* PESTICIDE, N.O.S.	–	–	–
Bleaching Powder, *see*	–	5.1	2208
Bleach Liquor, *see*	–	8	1791
BLUE ASBESTOS	–	9	2212
Bombs, Illuminating, *see* AMMUNITION ILLUMINATING	–	–	–
BOMBS, PHOTO-FLASH	–	1.1D	0038
BOMBS, PHOTO-FLASH	–	1.1F	0037
BOMBS, PHOTO-FLASH	–	1.2G	0039
BOMBS, PHOTO-FLASH	–	1.3G	0299
BOMBS, SMOKE, NON-EXPLOSIVE with corrosive liquid, without initiating device	–	8	2028
Bombs, Target Identification, *see* AMMUNITION ILLUMINATING	–	–	–
BOMBS with bursting charge	–	1.1D	0034
BOMBS with bursting charge	–	1.1F	0033
BOMBS with bursting charge	–	1.2D	0035
BOMBS with bursting charge	–	1.2F	0291
BOMBS WITH FLAMMABLE LIQUID with bursting charge	–	1.1J	0399
BOMBS WITH FLAMMABLE LIQUID with bursting charge	–	1.2J	0400
BOOSTERS WITH DETONATOR	–	1.1B	0225
BOOSTERS WITH DETONATOR	–	1.2B	0268
BOOSTERS without detonator	–	1.1D	0042
BOOSTERS without detonator	–	1.2D	0283
Borate and Chlorate Mixture, *see*	[illegible]	5.1	1458
BORNEOL	–	4.1	1312
Bornyl Alcohol, *see*	–	4.1	1312
Boroethane, Compressed, *see*	–	2.3	1911
Boron Bromide, *see*	–	8	2692
Boron Fluoride, Compressed, *see*	–	2.3	1008
BORON TRIBROMIDE	–	8	2692
BORON TRICHLORIDE	–	2.3	1741
BORON TRIFLUORIDE	–	2.3	1008
BORON TRIFLUORIDE ACETIC ACID COMPLEX, LIQUID	–	8	1742

BORON TRIFLUORIDE ACETIC ACID COMPLEX, SOLID	–	8	3419
BORON TRIFLUORIDE DIETHYL ETHERATE	–	8	2604
BORON TRIFLUORIDE DIHYDRATE	–	8	2851
BORON TRIFLUORIDE DIMETHYL ETHERATE	–	4.3	2965
BORON TRIFLUORIDE PROPIONIC ACID COMPLEX, LIQUID	–	8	1743
BORON TRIFLUORIDE PROPIONIC ACID COMPLEX, SOLID	–	8	3420
Brodifacoum, *see* COUMARIN DERIVATIVE PESTICIDE	~~PP~~ P	–	–
BROMATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.	~~-~~	5.1	3213
BROMATES, INORGANIC, N.O.S.	~~-~~	5.1	1450
BROMINE	–	8	1744
BROMINE CHLORIDE	–	2.3	2901
Bromine Cyanide, *see*	P	6.1	1889
BROMINE PENTAFLUORIDE	–	5.1	1745
BROMINE SOLUTION	–	8	1744
BROMINE TRIFLUORIDE	–	5.1	1746
BROMOACETIC ACID, SOLID	–	8	3425
BROMOACETIC ACID SOLUTION	–	8	1938
BROMOACETONE	P	6.1	1569
omega-Bromoacetophenone, *see*	–	6.1	2645
BROMOACETYL BROMIDE	–	8	2513
Bromoallylene, *see*	P	3	1099
BROMOBENZENE	P	3	2514
BROMOBENZYL CYANIDES, LIQUID	–	6.1	1694
BROMOBENZYL CYANIDES, SOLID	–	6.1	3449
1-BROMOBUTANE	–	3	1126
2-BROMOBUTANE	–	3	2339
Bromochlorodifluoromethane, *see*	–	2.2	1974
BROMOCHLOROMETHANE	–	6.1	1887
1-BROMO-3-CHLOROPROPANE	–	6.1	2688
Bromo cyane, *see*	P	6.1	1889
Bromodiphenylmethane, *see*	–	8	1770
1-Bromo -2,3-epoxypropane, *see*	P	6.1	2558
Bromoethane, *see*	–	6.1	1891
2-BROMOETHYL ETHYL ETHER	–	3	2340
BROMOFORM	P	6.1	2515
Bromomethane, *see*	–	2.3	1062
1-BROMO-3-METHYLBUTANE	–	3	2341
BROMOM ETHYLPROPANES	–	3	2342
Bromonitrobenzenes, Liquid, *see*	–	6.1	2732
Bromonitrobenzenes, Solid, *see*	–	6.1	3459
2-BROMO-2-NITROPROPANE-1,3-DIOL	–	4.1	3241
2-BROMOPENTANE	–	3	2343
Bromophos-ethyl, *see* ORGANOPHOSPHORUS PESTICIDE	~~PP~~ P	–	–
BROMOPROPANES	–	3	2344
3-Bromopropene, *see*	P	3	1099
3-Bromo -1-propyne, *see*	–	3	2345

3-BROMOPROPYNE	–	3	2345
alpha-Bromotoluene, *see*	–	6.1	1737
BROMOTRIFLUOROETHYLENE	–	2.1	2419
BROMOTRIFLUOROMETHANE	–	2.2	1009
Bromoxynil, *see* PESTICIDE, N.O.S.	P	–	–
Bronopol, *see*	–	4.1	3241
BROWN ASBESTOS	–	9	2212
BRUCINE	–	6.1	1570
BURSTERS explosive	–	1.1D	0043
BUTADIENES AND HYDROCARBON MIXTURE, STABILIZED with more than 40% butadienes	–	2.1	1010
BUTADIENES, STABILIZED	–	2.1	1010
Butanal, *see*	–	3	1129
Butanal Oxime, *see*	–	3	2840
BUTANE	–	2.1	1011
BUTANEDIONE	–	3	2346
Butanethiols, *see*	–	3	2347
Butanoic Acid, *see*	–	8	2820
Butanoic Anhydride, *see*	–	8	2739
Butan-2-ol, *see*	–	3	1120
3-Butanolal, *see*	–	6.1	2839
BUTANOLS	–	3	1120
2-Butanone, *see*	–	3	1193
Butanoyl Chloride, *see*	–	3	2353
2-Butenal, Stabilized, *see*	P	6.1	1143
Butene, *see*	–	2.1	1012
3-Butene-2-one, Stabilized, *see*	–	6.1	1251
1,2-Butene Oxide, Stabilized, *see*	–	3	3022
2-Butenoic Acid, Solid, *see*	–	8	2823
2-Butenoic Acid, Liquid, *see*	-	8	3472
2-Buten-1-ol, *see*	–	3	2614
Butocarboxim, *see* CARBAMATE PESTICIDE	–	–	–
BUTYL ACETATES	–	3	1123
BUTYL ACID PHOSPHATE	–	8	1718
BUTYL ACRYLATES, STABILIZED	–	3	2348
Butyl Alcohols, *see*	–	3	1120
Butyl Aldehyde, *see*	–	3	1129
BUTYLAMINE	–	3	1125
N-BUTYLANILINE	–	6.1	2738
BUTYLBENZENES	–	3	2709
Butyl Benzyl Phthalate, *see*	P	9	3082
n-Butyl Bromide, *see*	–	3	1126
secondary-Butyl Bromide, *see*	–	3	2339
tertiary-Butyl Bromide, *see*	–	3	2342
Butyl Butyrate, *see*	–	3	3272
n-Butyl Chloride, *see*	–	3	1127
secondary-Butyl Chloride, *see*	–	3	1127

tertiary-Butyl Chloride, *see*	–	3	1127
BUTYL CHLOROFORMATE	–	6.1	2743
tert-Butyl Cumyl Peroxide (concentration > 42–100%), *see*	–	5.2	3107
tert-Butyl Cumyl Peroxide (concentration ≤ 52%, with inert solid), *see*	–	5.2	3108
tert-BUTYLCYCLOHEXYL CHLOROFORMATE	–	6.1	2747
N^2-*tert*-Butyl-N^2-cyclopropyl-6-methylthio-1,3,5-triazine-2,4- diamine, *see*	P	9	3077
n-Butyl 4,4-di-(*tert*-butylperoxy)valerate (concentration > 52–100%), *see*	–	5.2	3103
n-Butyl 4,4-di-(*tert*-butylperoxy)valerate (concentration ≤ 52% with inert solid), *see*	–	5.2	3108
BUTYLENE	–	2.1	1012
1,2-BUTYLENE OXIDE, STABILIZED	–	3	3022
Butyl Ethers, *see*	–	3	1149
Butyl Ethyl Ether, *see*	–	3	1179
BUTYL FORMATE	–	3	1128
tert-Butyl Hydroperoxide (concentration < 82%) with Di-*tert*-butyl Peroxide (concentration > 9%), with water, *see*	–	5.2	3103
tert-Butyl Hydroperoxide (concentration > 79–90%, with water), *see*	–	5.2	3103
tert-Butyl Hydroperoxide (concentration ≤ 72%, with water), *see*	–	5.2	3109
tert-Butyl Hydroperoxide (concentration ≤ 79%, with water), *see*	–	5.2	3107
tert-Butyl Hydroperoxide (concentration ≤ 80%, with diluent Type A), *see*	–	5.2	3105
tert-BUTYL HYPOCHLORITE	–	4.2	3255
N-*n*-BUTYLIMIDAZOLE	–	6.1	2690
N-*normal*-Butyliminazole, *see*	–	6.1	2690
secondary-Butyl Iodide, *see*	–	3	2390
tertiary-Butyl Iodide, *see*	–	3	2391
BUTYL ISOCYANATE	–	6.1	2485
tert-BUTYL ISOCYANATE	–	6.1	2484
BUTYL MERCAPTANS	–	3	2347
BUTYL METHACRYLATE, STABILIZED	–	3	2227
Butyl 2-methylacrylate, Stabilized, *see*	–	3	2227
BUTYL METHYL ETHER	–	3	2350
tert-Butyl Monoperoxymaleate (concentration > 52–100%), *see*	–	5.2	3102
tert-Butyl Monoperoxymaleate (concentration ≤ 52%, as a paste), *see*	–	5.2	3108
tert-Butyl Monoperoxymaleate (concentration ≤ 52%, with diluent Type A), *see*	–	5.2	3103
tert-Butyl Monoperoxymaleate (concentration ≤ 52%, with inert solid), *see*	–	5.2	3108
BUTYL NITRITES	–	3	2351
tert-Butyl Peroxyacetate (concentration > 32–52%, with diluent Type A), *see*	–	5.2	3103
tert-Butyl Peroxyacetate (concentration > 52–77%, with diluent Type A), *see*	–	5.2	3101
tert-Butyl Peroxyacetate (concentration ≤ 32%, with diluent Type B), *see*	–	5.2	3109
tert-Butyl Peroxybenzoate (concentration > 52–77%, with diluent Type A), *see*	–	5.2	3105

tert-Butyl Peroxybenzoate (concentration > 77–100%, with diluent Type A), *see*	–	5.2	3103
tert-Butyl Peroxybenzoate (concentration ≤ 52%, with inert solid), *see*	–	5.2	3106
tert-Butyl Peroxybutyl Fumarate (concentration ≤ 52%, with diluent Type A), *see*	–	5.2	3105
tert-Butyl Peroxycrotonate (concentration ≤ 77%, with diluent Type A), *see*	–	5.2	3105
tert-Butyl Peroxydiethyl-acetate (concentration ≤ 100%), *see*	–	5.2	3113
tert-Butyl Peroxy-2-ethylhexanoate (concentration > 32–52%, with diluent Type B), *see*	–	5.2	3117
tert-Butyl Peroxy-2-ethylhexanoate (concentration > 52–100%), *see*	–	5.2	3113
tert-Butyl Peroxy-2-ethylhexanoate (concentration ≤ 12%) with 2,2-Di-(*tert*-butylperoxy)butane (concentration ≤ 14%) with diluent Type A and inert solid, *see*	–	5.2	3106
tert-Butyl Peroxy-2-ethylhexanoate (concentration ≤ 31%) with 2,2-Di-(*tert*-butylperoxy)butane (concentration ≤ 36%) with diluent Type B, *see*	–	5.2	3115
tert-Butyl Peroxy-2-ethylhexanoate (concentration ≤ 32%, with diluent Type B), *see*	–	5.2	3119
tert-Butyl Peroxy-2-ethylhexanoate (concentration ≤ 52%, with inert solid), *see*	–	5.2	3118
tert-Butyl Peroxy-2-ethylhexylcarbonate (concentration ≤ 100%), *see*	–	5.2	3105
tert-Butylperoxy-2-ethylhexylcarbonate (concentration ≤ 100%), *see*	–	5.2	3105
tert-Butyl Peroxyisobutyrate (concentration > 52–77%, with diluent Type B), *see*	–	5.2	3111
tert-Butyl Peroxyisobutyrate (concentration ≤ 52%, with diluent Type B), *see*	–	5.2	3115
tert-Butylperoxy Isopropylcarbonate (concentration ≤ 77%, with diluent Type A), *see*	–	5.2	3103
1-(2-*tert*-Butylperoxyisopropyl)-3-isopropenylbenzene (concentration ≤ 42%, with inert solid), *see*	–	5.2	3108
1-(2-*tert*-Butylperoxyisopropyl)-3-isopropenylbenzene (concentration ≤ 77%, with diluent Type A), *see*	–	5.2	3105
tert-Butyl Peroxy-2-methylbenzoate (concentration ≤ 100%), *see*	–	5.2	3103
tert-Butyl Peroxyneodecanoate (concentration > 77–100%), *see*	–	5.2	3115
tert-Butyl Peroxyneodecanoate (concentration ≤ 32%, with diluent Type A), *see*	–	5.2	3119
tert-Butyl Peroxyneodecanoate (concentration ≤ 42%, as a stable dispersion in water (frozen)), *see*	–	5.2	3118
tert-Butyl Peroxyneodecanoate (concentration ≤ 52%, as a stable dispersion in water), *see*	–	5.2	3119
tert-Butyl Peroxyneodecanoate (concentration ≤ 77%, with diluent Type B), *see*	–	5.2	3115
tert-Butyl Peroxyneoheptanoate (concentration ≤ 42% as a stable dispersion in water), *see*	–	5.2	3117
tert-Butyl Peroxyneoheptanoate (concentration ≤ 77%, with diluent Type A), *see*	–	5.2	3115
tert-Butyl Peroxypivalate (concentration > 27–67%, with diluent Type B), *see*	–	5.2	3115
tert-Butyl Peroxypivalate (concentration > 67–77%, with diluent Type A), *see*	–	5.2	3113
tert-Butyl Peroxypivalate (concentration ≤ 27%, with diluent Type B), *see*	–	5.2	3119

tert-Butylperoxy Stearyl-carbonate (concentration ≤ 100%), *see*	–	5.2	3106
tert-Butyl Peroxy-3,5,5-trimethylhexanoate (concentration > 32–100%), *see*	–	5.2	3105
tert-Butyl Peroxy-3,5,5-trimethylhexanoate (concentration ≤ 32%, with diluent Type B), *see*	–	5.2	3109
Butylphenols, Liquid, N.O.S., *see*	-	8	3145
Butylphenols, Solid, N.O.S., *see*	-	8	2430
Butylphosphoric Acid, *see*	–	8	1718
BUTYL PROPIONATES	–	3	1914
Butyl Thioalcohols, *see*	–	3	2347
BUTYLTOLUENES	-	6.1	2667
BUTYLTRICHLOROSILANE	–	8	1747
5-*tert*-BUTYL-2,4,6-TRINITRO-*m*-XYLENE	–	4.1	2956
BUTYL VINYL ETHER, STABILIZED	–	3	2352
2-Butyne, *see*	–	3	1144
2-Butyne-1,4-diol, *see*	–	6.1	2716
1,4-BUTYNEDIOL	–	6.1	2716
But-1-yne, Stabilized, *see*	–	2.1	2452
1-Butyne, Stabilized, *see*	–	2.1	2452
BUTYRALDEHYDE	–	3	1129
BUTYRALDOXIME	–	3	2840
BUTYRIC ACID	–	8	2820
BUTYRIC ANHYDRIDE	–	8	2739
Butyrone, *see*	–	3	2710
BUTYRONITRILE	–	3	2411
Butyroyl Chloride, *see*	–	3	2353
BUTYRYL CHLORIDE	–	3	2353
Cable Cutters, Explosive, *see*	–	1.4S	0070
CACODYLIC ACID	–	6.1	1572
CADMIUM COMPOUND	-	6.1	2570
Cadmium selenide, *see*	–	6.1	2570
Cadmium sulphide, *see*	P	6.1	2570
CAESIUM	–	4.3	1407
Caesium Alloy (liquid), *see*	-	4.3	1421
Caesium Amalgams, Liquid, *see*	-	4.3	1389
Caesium Amalgams, Solid, *see*	-	4.3	3401
Caesium Amide, *see*	–	4.3	1390
Caesium Dispersions, *see*	–	4.3	1391
CAESIUM HYDROXIDE	–	8	2682
CAESIUM HYDROXIDE SOLUTION	–	8	2681
CAESIUM NITRATE	–	5.1	1451
Caesium Powder, Pyrophoric, *see*	-	4.2	1383
Cajeputene, *see*	P	3	2052
CALCIUM	–	4.3	1401
Calcium Alloy, non-pyrophoric, *see*	-	4.3	1421
CALCIUM ALLOYS, PYROPHORIC	–	4.2	1855
Calcium Amalgams, Liquid, *see*	-	4.3	1389

Calcium Amalgams, Solid, *see*	-	4.3	3402
CALCIUM ARSENATE	P	6.1	1573
CALCIUM ARSENATE AND CALCIUM ARSENITE MIXTURE, SOLID	P	6.1	1574
Calcium Bisulphite Solution, *see*	–	8	2693
CALCIUM CARBIDE	–	4.3	1402
CALCIUM CHLORATE	–	5.1	1452
CALCIUM CHLORATE, AQUEOUS SOLUTION	–	5.1	2429
CALCIUM CHLORITE	–	5.1	1453
CALCIUM CYANAMIDE with more than 0.1% calcium carbide	–	4.3	1403
CALCIUM CYANIDE	P	6.1	1575
Calcium Dispersions, *see*	–	4.3	1391
CALCIUM DITHIONITE	–	4.2	1923
CALCIUM HYDRIDE	–	4.3	1404
Calcium Hydrogen Sulphite Solution, *see*	–	8	2693
CALCIUM HYDROSULPHITE	–	4.2	1923
CALCIUM HYPOCHLORITE, DRY	–	5.1	1748
CALCIUM HYPOCHLORITE, HYDRATED	–	5.1	2880
CALCIUM HYPOCHLORITE, HYDRATED MIXTURE with not less than 5% but not more than 16% water	–	5.1	2880
CALCIUM HYPOCHLORITE MIXTURE, DRY with more than 10% but not more than 39% available chlorine	–	5.1	2208
CALCIUM HYPOCHLORITE MIXTURE, DRY with more than 39% available chlorine (8.8% available oxygen)	–	5.1	1748
CALCIUM MANGANESE SILICON	–	4.3	2844
Calcium Naphthenate in solution, *see*	P	9	3082
CALCIUM NITRATE	–	5.1	1454
CALCIUM OXIDE	-	8	1910
CALCIUM PERCHLORATE	–	5.1	1455
CALCIUM PERMANGANATE	–	5.1	1456
CALCIUM PEROXIDE	–	5.1	1457
CALCIUM PHOSPHIDE	–	4.3	1360
CALCIUM, PYROPHORIC	–	4.2	1855
CALCIUM RESINATE	–	4.1	1313
CALCIUM RESINATE, FUSED	–	4.1	1314
CALCIUM SILICIDE	–	4.3	1405
Calcium Silicon, *see*	–	4.3	1405
Calcium Superoxide, *see*	–	5.1	1457
2-Camphanol, *see*	–	4.1	1312
2-Camphanone, *see*	–	4.1	2717
Camphechlor, *see* ORGANOCHLORINE PESTICIDE	PP P	–	–
CAMPHOR OIL	–	3	1130
CAMPHOR synthetic	–	4.1	2717
CAPROIC ACID	–	8	2829
Caproic Aldehyde, *see*	–	3	1207
Caprylyl Chloride, *see*	–	8	3265
CARBAMATE PESTICIDE, LIQUID, FLAMMABLE, TOXIC flashpoint less	-	3	2758

than 23°C			
CARBAMATE PESTICIDE, LIQUID, TOXIC	P	6.1	2992
CARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flashpoint not less than 23°C	P	6.1	2991
CARBAMATE PESTICIDE, SOLID, TOXIC	P	6.1	2757
Carbanil, *see*	–	6.1	2487
Carbaryl, *see* CARBAMATE PESTICIDE	P	–	–
Carbendazim, *see* **Note 1**	P	–	–
Carbofuran, *see* CARBAMATE PESTICIDE	P	–	–
Carbolic Acid, Molten, *see*	–	6.1	2312
Carbolic Acid, Solid, *see*	–	6.1	1671
Carbolic Acid Solution, *see*	–	6.1	2821
CARBON, ACTIVATED	–	4.2	1362
CARBON animal origin	–	4.2	1361
Carbon Bisulphide, *see*	–	3	1131
Carbon Black, *see*	–	4.2	1361
CARBON DIOXIDE	–	2.2	1013
Carbon Dioxide and Ethylene Oxide Mixture, *see* ETHYLENE OXIDE AND CARBON DIOXIDE MIXTURE	–	–	–
CARBON DIOXIDE, REFRIGERATED LIQUID	–	2.2	2187
CARBON DIOXIDE, SOLID	–	9	1845
CARBON DISULPHIDE	–	3	1131
Carbonic Anhydride, *see*	–	2.2	1013
Carbonic Anhydride, Refrigerated Liquid, *see*	–	2.2	2187
CARBON MONOXIDE, COMPRESSED	–	2.3	1016
Carbon Oxisulphide, *see*	–	2.3	2204
Carbon Oxyfluoride, *see*	–	2.3	2417
Carbon Oxyfluoride, Compressed, *see*	–	2.3	2417
Carbon Oxysulphide, *see*	–	2.3	2204
Carbon Paper, *see*	–	4.2	1379
CARBON TETRABROMIDE	P	6.1	2516
CARBON TETRACHLORIDE	P	6.1	1846
CARBON vegetable origin	–	4.2	1361
Carbonyl Chloride, *see*	–	2.3	1076
CARBONYL FLUORIDE	–	2.3	2417
CARBONYL SULPHIDE	–	2.3	2204
Carbophenothion, *see* ORGANOPHOSPHORUS PESTICIDE	~~PP~~ P	–	–
Cargo Transport Unit Under Fumigation, *see*	–	9	3359
Cartap Hydrochloride, *see* CARBAMATE PESTICIDE	P	–	–
Cartridge Cases, *see* CASES, CARTRIDGE	–	–	–
Para-cartridges, actuating, for fire extinguisher or apparatus valve, *see* CARTRIDGES, POWER DEVICE	–	–	–
Cartridges, Actuating, for Fire Extinguisher or Apparatus Valve, *see* CARTRIDGES, POWER DEVICE	–	–	–
Cartridges, Explosive, *see*	–	1.1D	0048
CARTRIDGES, FLASH	–	1.1G	0049
CARTRIDGES, FLASH	–	1.3G	0050

CARTRIDGES FOR WEAPONS, BLANK	–	1.1C	0326
CARTRIDGES FOR WEAPONS, BLANK	–	1.2C	0413
CARTRIDGES FOR WEAPONS, BLANK	–	1.3C	0327
CARTRIDGES FOR WEAPONS, BLANK	–	1.4C	0338
CARTRIDGES FOR WEAPONS, BLANK	–	1.4S	0014
CARTRIDGES FOR WEAPONS, INERT PROJECTILE	–	1.2C	0328
CARTRIDGES FOR WEAPONS, INERT PROJECTILE	–	1.3C	0417
CARTRIDGES FOR WEAPONS, INERT PROJECTILE	–	1.4C	0339
CARTRIDGES FOR WEAPONS, INERT PROJECTILE	–	1.4S	0012
CARTRIDGES FOR WEAPONS with bursting charge	–	1.1E	0006
CARTRIDGES FOR WEAPONS with bursting charge	–	1.1F	0005
CARTRIDGES FOR WEAPONS with bursting charge	–	1.2E	0321
CARTRIDGES FOR WEAPONS with bursting charge	–	1.2F	0007
CARTRIDGES FOR WEAPONS with bursting charge	–	1.4E	0412
CARTRIDGES FOR WEAPONS with bursting charge	–	1.4F	0348
Cartridges, Illuminating, *see* AMMUNITION, ILLUMINATING	–	–	–
CARTRIDGES, OIL WELL	–	1.3C	0277
CARTRIDGES, OIL WELL	–	1.4C	0278
CARTRIDGES, POWER DEVICE	–	1.2C	0381
CARTRIDGES, POWER DEVICE	–	1.3C	0275
CARTRIDGES, POWER DEVICE	–	1.4C	0276
CARTRIDGES, POWER DEVICE	–	1.4S	0323
CARTRIDGES, SIGNAL	–	1.3G	0054
CARTRIDGES, SIGNAL	–	1.4G	0312
CARTRIDGES, SIGNAL	–	1.4S	0405
CARTRIDGES, SMALL ARMS	–	1.3C	0417
CARTRIDGES, SMALL ARMS	–	1.4C	0339
CARTRIDGES, SMALL ARMS	–	1.4S	0012
CARTRIDGES, SMALL ARMS, BLANK	–	1.3C	0327
CARTRIDGES, SMALL ARMS, BLANK	–	1.4C	0338
CARTRIDGES, SMALL ARMS, BLANK	–	1.4S	0014
Cartridges, Starter, Jet Engine, *see* CARTRIDGES, POWER DEVICE	–	–	–
CASES, CARTRIDGE, EMPTY, WITH PRIMER	–	1.4C	0379
CASES, CARTRIDGE, EMPTY, WITH PRIMER	–	1.4S	0055
CASES, COMBUSTIBLE, EMPTY, WITHOUT PRIMER	–	1.3C	0447
CASES, COMBUSTIBLE, EMPTY, WITHOUT PRIMER	–	1.4C	0446
Casinghead Gasoline, *see*	P	3	1203
CASTOR BEANS	–	9	2969
CASTOR FLAKE	–	9	2969
CASTOR MEAL	–	9	2969
CASTOR POMACE	–	9	2969
CAUSTIC ALKALI LIQUID, N.O.S.	[redacted]	8	1719
Caustic Potash, Liquid, *see*	–	8	1814
Caustic Potash, Solid, *see*	–	8	1813
Caustic Soda, Solid, *see*	–	8	1823
Caustic Soda Solution, *see*	–	8	1824

CELLS, CONTAINING SODIUM	–	4.3	3292
CELLULOID in block, rods, rolls, sheets, tubes, etc., except scrap	–	4.1	2000
CELLULOID, SCRAP	–	4.2	2002
Cellulose Nitrate Solution, *see*	–	3	2059
Cellulose Nitrate with alcohol, *see*	–	4.1	2556
Cellulose Nitrate with plasticizing substance, *see*	~~,~~	4.1	2557
Cellulose Nitrate with water, *see*	–	4.1	2555
Cement, Liquid, *see*	~~,~~	3	1133
Cerium Powder, Pyrophoric, *see*	–	4.2	1383
CERIUM slabs, ingots or rods	–	4.1	1333
CERIUM turnings or gritty powder	–	4.3	3078
Cer Mischmetall, *see*	–	4.1	1333
~~Cesium~~ Caesium, *see* CAESIUM	–	~~4.3~~	~~1407~~
Charcoal, Activated, *see*	–	4.2	1362
Charcoal, Non-activated, *see*	–	4.2	1361
CHARGES, BURSTING, PLASTICS BONDED	–	1.1D	0457
CHARGES, BURSTING, PLASTICS BONDED	–	1.2D	0458
CHARGES, BURSTING, ~~PLASTICS BONDED~~ PLASTICS BONDED	–	1.4D	0459
CHARGES, BURSTING, ~~PLASTICS BONDED~~ PLASTICS BONDED	–	1.4S	0460
CHARGES, DEMOLITION	–	1.1D	0048
CHARGES, DEPTH	–	1.1D	0056
Charges, Expelling, Explosive, for Fire Extinguishers, *see* CARTRIDGES, POWER DEVICE	–	–	–
CHARGES, EXPLOSIVE, COMMERCIAL without detonator	–	1.1D	0442
CHARGES, EXPLOSIVE, COMMERCIAL without detonator	–	1.2D	0443
CHARGES, EXPLOSIVE, COMMERCIAL without detonator	–	1.4D	0444
CHARGES, EXPLOSIVE, COMMERCIAL without detonator	–	1.4S	0445
CHARGES, PROPELLING	–	1.1C	0271
CHARGES, PROPELLING	–	1.2C	0415
CHARGES, PROPELLING	–	1.3C	0272
CHARGES, PROPELLING	–	1.4C	0491
CHARGES, PROPELLING, FOR CANNON	–	1.1C	0279
CHARGES, PROPELLING, FOR CANNON	–	1.2C	0414
CHARGES, PROPELLING, FOR CANNON	–	1.3C	0242
CHARGES, SHAPED, FLEXIBLE, LINEAR	–	1.1D	0288
CHARGES, SHAPED, FLEXIBLE, LINEAR	–	1.4D	0237
CHARGES, SHAPED without detonator	–	1.1D	0059
CHARGES, SHAPED without detonator	–	1.2D	0439
CHARGES, SHAPED without detonator	–	1.4D	0440
CHARGES, SHAPED without detonator	–	1.4S	0441
CHARGES, SUPPLEMENTARY, EXPLOSIVE	–	1.1D	0060
CHEMICAL KIT	–	9	3316
CHEMICAL SAMPLE, TOXIC	–	6.1	3315
Chile Saltpetre, *see*	–	5.1	1498
Chinomethionat, *see* PESTICIDE, N.O.S.	–	–	–
CHLORAL, ANHYDROUS, STABILIZED	–	6.1	2075
CHLORATE AND BORATE MIXTURE	~~,~~	5.1	1458

CHLORATE AND MAGNESIUM CHLORIDE MIXTURE, SOLID	~~P~~	5.1	1459
CHLORATE AND MAGNESIUM CHLORIDE MIXTURE SOLUTION	~~P~~	5.1	3407
CHLORATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.	~~P~~	5.1	3210
CHLORATES, INORGANIC, N.O.S.	~~P~~	5.1	1461
Chlordane, *see* ORGANOCHLORINE PESTICIDE	~~PP~~ P	–	–
Chlordimeform, *see* ORGANOCHLORINE PESTICIDE	–	–	–
Chlordimeform Hydrochloride, *see* ORGANOCHLORINE PESTICIDE	–	–	–
Chlorfenvinphos, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
CHLORIC ACID, AQUEOUS SOLUTION with a concentration exceeding 10% **(transport prohibited)**	–	–	–
CHLORIC ACID, AQUEOUS SOLUTION with not more than 10% chloric acid	–	5.1	2626
Chlorinated Paraffins (C_{10}–C_{13}), *see*	~~PP~~ P	9	3082
Chlorinated Paraffins (C_{14}–C_{17}) with more than 1% shorter chain length, *see*	~~PP~~ P	9	3082
CHLORINE	P	2.3	1017
Chlorine Bromide, *see*	–	2.3	2901
Chlorine Cyanide, Stabilized, *see*	P	2.3	1589
CHLORINE PENTAFLUORIDE	–	2.3	2548
CHLORINE TRIFLUORIDE	–	2.3	1749
CHLORITES, INORGANIC, N.O.S.	~~P~~	5.1	1462
CHLORITE SOLUTION	~~P~~	8	1908
Chlormephos, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
Chloroacetaldehyde, *see*	–	6.1	2232
CHLOROACETIC ACID, MOLTEN	–	6.1	3250
CHLOROACETIC ACID, SOLID	–	6.1	1751
CHLOROACETIC ACID SOLUTION	–	6.1	1750
CHLOROACETONE, STABILIZED	P	6.1	1695
CHLOROACETONITRILE	–	6.1	2668
CHLOROACETOPHENONE, LIQUID	–	6.1	3416
CHLOROACETOPHENONE, SOLID	–	6.1	1697
CHLOROACETYL CHLORIDE	–	6.1	1752
2-Chloroaniline, *see*	–	6.1	2019
3-Chloroaniline, *see*	–	6.1	2019
4-Chloroaniline, *see*	–	6.1	2018
meta-Chloroaniline, *see*	–	6.1	2019
ortho-Chloroaniline, *see*	–	6.1	2019
para-Chloroaniline, *see*	–	6.1	2018
CHLOROANILINES, LIQUID	–	6.1	2019
CHLOROANILINES, SOLID	–	6.1	2018
CHLOROANISIDINES	–	6.1	2233
CHLOROBENZENE	–	3	1134
CHLOROBENZOTRIFLUORIDES	–	3	2234
CHLOROBENZYL CHLORIDES, LIQUID	P	6.1	2235
CHLOROBENZYL CHLORIDES, SOLID	P	6.1	3427
1-Chloro-3-bromopropane, *see*	–	6.1	2688
2-Chlorobutadiene-1,3, Stabilized, *see*	–	3	1991

CHLOROBUTANES	–	3	1127
Chlorocarbonates, Toxic, Corrosive, Flammable, N.O.S., *see*	P	6.1	2742
Chlorocarbonates, Toxic, Corrosive, N.O.S., *see*	P	6.1	3277
CHLOROCRESOLS, SOLID	–	6.1	3437
CHLOROCRESOLS SOLUTION	–	6.1	2669
3-Chloro-4-diethylamino-benzenediazonium Zinc Chloride (concentration 100%), *see*	–	4.1	3226
CHLORODIFLUOROBROMOMETHANE	–	2.2	1974
1-CHLORO-1,1-DIFLUOROETHANE	–	2.1	2517
CHLORODIFLUOROMETHANE	–	2.2	1018
CHLORODIFLUOROMETHANE AND CHLOROPENTAFLUOROETHANE MIXTURE with a fixed boiling point, with approximately 49% chlorodifluoromethane	–	2.2	1973
3-Chloro-1,2-dihydroxypropane, *see*	–	6.1	2689
Chlorodimethyl Ether	–	6.1	1239
CHLORODINITROBENZENES, LIQUID	P	6.1	1577
CHLORODINITROBENZENES, SOLID	P	6.1	3441
2-CHLOROETHANAL	–	6.1	2232
Chloroethane, *see*	–	2.1	1037
Chloroethane Nitrile, *see*	–	6.1	2668
2-Chloroethanol, *see*	–	6.1	1135
2-Chloroethyl Alcohol, *see*	–	6.1	1135
CHLOROFORM	–	6.1	1888
CHLOROFORMATES, TOXIC, CORROSIVE, FLAMMABLE, N.O.S.	P	6.1	2742
CHLOROFORMATES, TOXIC, CORROSIVE, N.O.S.	P	6.1	3277
Chloromethane, *see*	–	2.1	1063
2-Chloro-2-methylbutane, *see*	–	3	1107
1-Chloro-3-methylbutane, *see*	–	3	1107
CHLOROMETHYL CHLOROFORMATE	–	6.1	2745
Chloromethyl Cyanide, *see*	–	6.1	2668
CHLOROMETHYL ETHYL ETHER	–	3	2354
Chloromethyl Methyl Ether, *see*	–	6.1	1239
Chloromethylphenols, Liquid, *see*	–	6.1	2669
Chloromethylphenols, Solid, *see*	–	6.1	3437
3-CHLORO-4-METHYLPHENYL ISOCYANATE, LIQUID	–	6.1	2236
3-CHLORO-4-METHYLPHENYL ISOCYANATE, SOLID	–	6.1	3428
Chloromethylpropanes, *see*	–	3	1127
3-Chloro-2-methylprop-1-ene, *see*	–	3	2554
CHLORONITROANILINES	P	6.1	2237
CHLORONITROBENZENES, LIQUID	–	6.1	3409
CHLORONITROBENZENES, SOLID	–	6.1	1578
2-Chloro-6-nitrotoluene, *see* **Note 1**	P	–	–
CHLORONITROTOLUENES, LIQUID	P	6.1	2433
CHLORONITROTOLUENES, SOLID	P	6.1	3457
1-Chlorooctane, *see*	P	9	3082
para-Chloro-*ortho*-aminophenol, *see*	–	6.1	2673
4-CHLORO-*o*-TOLUIDINE HYDROCHLORIDE, SOLID	–	6.1	1579
4-CHLORO-*o*-TOLUIDINE HYDROCHLORIDE SOLUTION	–	6.1	3450

CHLOROPENTAFLUOROETHANE	–	2.2	1020
Chloropentanes, *see*	–	3	1107
3-Chloroperoxybenzoic Acid (concentration ≤ 57%, with inert solid and water), *see*	–	5.2	3106
3-Chloroperoxybenzoic Acid (concentration ≤ 77% with inert solid and water), *see*	–	5.2	3106
3-Chloroperoxybenzoic Acid (concentration more than 57–86% with inert solid), *see*	–	5.2	3102
Chlorophacinone, *see* ORGANOCHLORINE PESTICIDE	–	–	–
CHLOROPHENOLATES, LIQUID	÷	8	2904
CHLOROPHENOLATES, SOLID	÷	8	2905
CHLOROPHENOLS, LIQUID	–	6.1	2021
CHLOROPHENOLS, SOLID	–	6.1	2020
CHLOROPHENYLTRICHLOROSILANE	P	8	1753
CHLOROPICRIN	P	6.1	1580
CHLOROPICRIN AND METHYL BROMIDE MIXTURE with more than 2% chloropicrin	–	2.3	1581
CHLOROPICRIN AND METHYL CHLORIDE MIXTURE	–	2.3	1582
CHLOROPICRIN MIXTURE, N.O.S.	÷	6.1	1583
CHLOROPLATINIC ACID, SOLID	–	8	2507
CHLOROPRENE, STABILIZED	–	3	1991
1-CHLOROPROPANE	–	3	1278
2-CHLOROPROPANE	–	3	2356
3-Chloropropanediol-1,2, *see*	–	6.1	2689
1-Chloro-2-propanol, *see*	–	6.1	2611
3-CHLOROPROPANOL-1	–	6.1	2849
3-Chloroprop-1-ene, *see*	–	3	1100
2-CHLOROPROPENE	–	3	2456
3-Chloropropene, *see*	–	3	1100
2-CHLOROPROPIONIC ACID	–	8	2511
alpha-Chloropropionic Acid, *see*	–	8	2511
alpha-Chloropropylene, *see*	–	3	1100
2-Chloropropylene, *see*	–	3	2456
2-CHLOROPYRIDINE	–	6.1	2822
CHLOROSILANES, CORROSIVE, FLAMMABLE, N.O.S.	÷	8	2986
CHLOROSILANES, CORROSIVE, N.O.S.	÷	8	2987
CHLOROSILANES, FLAMMABLE, CORROSIVE, N.O.S.	÷	3	2985
CHLOROSILANES, TOXIC, CORROSIVE, FLAMMABLE, N.O.S.	÷	6.1	3362
CHLOROSILANES, TOXIC, CORROSIVE, N.O.S.	÷	6.1	3361
CHLOROSILANES, WATER-REACTIVE, FLAMMABLE, CORROSIVE, N.O.S.	÷	4.3	2988
CHLOROSULPHONIC ACID (with or without sulphur trioxide)	–	8	1754
Chlorosulphuric Acid, *see*	–	8	1834
1-CHLORO-1,2,2,2-TETRAFLUOROETHANE	–	2.2	1021
meta-Chlorotoluene, *see*	P	3	2238
ortho-Chlorotoluene, *see*	–	3	2238
para-Chlorotoluene, *see*	P	3	2238
CHLOROTOLUENES	÷	3	2238

CHLOROTOLUIDINES, LIQUID	–	6.1	3429
CHLOROTOLUIDINES, SOLID	–	6.1	2239
1-CHLORO-2,2,2-TRIFLUOROETHANE	–	2.2	1983
Chlorotrifluoroethylene, Stabilized, *see*	–	2.3	1082
CHLOROTRIFLUOROMETHANE	–	2.2	1022
CHLOROTRIFLUOROMETHANE AND TRIFLUOROMETHANE AZEOTROPIC MIXTURE with approximately 60% chlorotrifluoromethane	–	2.2	2599
2-Chloro-5-trifluoromethyl-nitrobenzene, *see*	P	6.1	2307
Chlorovinylacetate, *see*	–	6.1	2589
Chlorpyriphos, *see* ORGANOPHOSPHORUS PESTICIDE	PP P	–	–
Chlorthiophos, *see* ORGANOPHOSPHORUS PESTICIDE	PP P	–	–
Chromic Acid, Solid, *see*	–	5.1	1463
CHROMIC ACID SOLUTION	–	8	1755
Chromic Anhydride, *see*	–	5.1	1463
CHROMIC FLUORIDE, SOLID	–	8	1756
CHROMIC FLUORIDE SOLUTION	–	8	1757
Chromic Nitrate, *see*	–	5.1	2720
Chromium (VI) Dichloride Dioxide, *see*	–	8	1758
Chromium (III) Fluoride, Solid, *see*	–	8	1756
Chromium Fluoride, Solid, *see*	–	8	1756
Chromium Fluoride Solution, *see*	–	8	1757
CHROMIUM NITRATE	–	5.1	2720
Chromium (III) Nitrate, *see*	–	5.1	2720
CHROMIUM OXYCHLORIDE	–	8	1758
CHROMIUM TRIOXIDE, ANHYDROUS	–	5.1	1463
CHROMOSULPHURIC ACID	–	8	2240
Chromyl Chloride, *see*	–	8	1758
Chrysotile, *see*	–	9	2590
Cinene, *see*	P	3	2052
Cinnamene, *see*	–	3	2055
Cinnamol, *see*	–	3	2055
CLINICAL SPECIMENS	–	6.2	3375
CLINICAL WASTE, UNSPECIFIED, N.O.S.	–	6.2	3291
COAL GAS, COMPRESSED	–	2.3	1023
Coal Tar, *see*	P	9	3082
COAL TAR DISTILLATES, FLAMMABLE	–	3	1136
Coal Tar Naphtha, *see*	-	3	1268
Coal Tar Oils, *see*	–	3	1136
COATING SOLUTION (includes surface treatments or coatings used for industrial purposes such as vehicle under-coating, drum or barrel lining)	-	3	1139
COBALT NAPHTHENATES, POWDER	–	4.1	2001
COBALT RESINATE, PRECIPITATED	–	4.1	1318
Cocculus, *see*	P	6.1	3172
Coconitrile, *see*	P	9	3082
Collodion Cottons (class 1), *see* NITROCELLULOSE	–	–	–
Collodion Cotton with Alcohol, *see*	–	4.1	2556

Collodion Cotton with plasticizing substance, *see*	~~-~~	4.1	2557
Collodion Cotton with water, *see*	–	4.1	2555
Collodion Solution, *see*	–	3	2059
COMPONENTS, EXPLOSIVE TRAIN, N.O.S.	–	1.1B	0461
COMPONENTS, EXPLOSIVE TRAIN, N.O.S.	–	1.2B	0382
COMPONENTS, EXPLOSIVE TRAIN, N.O.S.	–	1.4B	0383
COMPONENTS, EXPLOSIVE TRAIN, N.O.S.	–	1.4S	0384
Composition B, *see*	–	1.1D	0118
COMPRESSED GAS, FLAMMABLE, N.O.S.	~~-~~	2.1	1954
COMPRESSED GAS, N.O.S.	~~-~~	2.2	1956
COMPRESSED GAS, OXIDIZING, N.O.S.	~~-~~	2.2	3156
COMPRESSED GAS, TOXIC, CORROSIVE, N.O.S.	~~-~~	2.3	3304
COMPRESSED GAS, TOXIC, FLAMMABLE, CORROSIVE, N.O.S.	~~-~~	2.3	3305
COMPRESSED GAS, TOXIC, FLAMMABLE, N.O.S.	~~-~~	2.3	1953
COMPRESSED GAS, TOXIC, N.O.S.	~~-~~	2.3	1955
COMPRESSED GAS, TOXIC, OXIDIZING, CORROSIVE, N.O.S.	~~-~~	2.3	3306
COMPRESSED GAS, TOXIC, OXIDIZING, N.O.S.	~~-~~	2.3	3303
Container Under Fumigation, *see*	–	9	3359
CONTRIVANCES, WATER-ACTIVATED with burster, expelling charge or propelling charge	–	1.2L	0248
CONTRIVANCES, WATER-ACTIVATED with burster, expelling charge or propelling charge	–	1.3L	0249
COPPER ACETOARSENITE	**P**	6.1	1585
Copper Arsenate, *see*	~~-~~	6.1	1557
COPPER ARSENITE	**P**	6.1	1586
Copper (II) Arsenite, *see*	–	6.1	1586
COPPER BASED PESTICIDE, LIQUID, TOXIC	~~-~~	6.1	3010
COPPER BASED PESTICIDE, LIQUID, TOXIC, FLAMMABLE flashpoint less than 23°C	~~-~~	3	2776
COPPER BASED PESTICIDE, LIQUID, TOXIC, FLAMMABLE flashpoint not less than 23°C	~~-~~	6.1	3009
COPPER BASED PESTICIDE, SOLID, TOXIC	~~-~~	6.1	2775
COPPER CHLORATE	–	5.1	2721
Copper (II) Chlorate, *see*	–	5.1	2721
COPPER CHLORIDE	~~pp~~ **P**	8	2802
Copper Compounds, *see* COPPER BASED PESTICIDE	–	–	–
COPPER CYANIDE	~~pp~~ **P**	6.1	1587
Copper Metal Powder, *see* **Note 1**	~~pp~~ **P**	–	–
Copper Sulphate, anhydrous, hydrates and solutions, *see* **Note 1**	~~pp~~ **P**	–	–
COPRA	–	4.2	1363
CORD, DETONATING flexible	–	1.1D	0065
CORD, DETONATING flexible	–	1.4D	0289
CORD, DETONATING metal-clad	–	1.1D	0290
CORD, DETONATING metal-clad	–	1.2D	0102
CORD, DETONATING, MILD EFFECT metal-clad	–	1.4D	0104

CORD, IGNITER	–	1.4G	0066
Cordite, *see* POWDER, SMOKELESS	–	–	–
CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	-	8	3264
CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	-	8	3265
CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	-	8	3266
CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.	-	8	3267
CORROSIVE LIQUID, FLAMMABLE, N.O.S.	-	8	2920
CORROSIVE LIQUID, N.O.S.	-	8	1760
CORROSIVE LIQUID, OXIDIZING, N.O.S.	-	8	3093
CORROSIVE LIQUID, SELF-HEATING, N.O.S.	-	8	3301
CORROSIVE LIQUID, TOXIC, N.O.S.	-	8	2922
CORROSIVE LIQUID, WATER-REACTIVE, N.O.S.	-	8	3094
CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.	-	8	3260
CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.	-	8	3261
CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.	-	8	3262
CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.	-	8	3263
CORROSIVE SOLID, FLAMMABLE, N.O.S.	-	8	2921
CORROSIVE SOLID, N.O.S.	-	8	1759
CORROSIVE SOLID, OXIDIZING, N.O.S.	-	8	3084
CORROSIVE SOLID, SELF-HEATING, N.O.S.	-	8	3095
CORROSIVE SOLID, TOXIC, N.O.S.	-	8	2923
CORROSIVE SOLID, WATER-REACTIVE, N.O.S.	-	8	3096
Cosmetics, *see*	-	3	1266
Cotton, Dry, *see*	–	4.1	3360
COTTON WASTE, OILY	–	4.2	1364
COTTON, WET	–	4.2	1365
Coumachlor, *see* COUMARIN DERIVATIVE PESTICIDE	P	–	–
Coumafuryl, *see* COUMARIN DERIVATIVE PESTICIDE	–	–	–
Coumaphos, *see* COUMARIN DERIVATIVE PESTICIDE	PP P	–	–
COUMARIN DERIVATIVE PESTICIDE, LIQUID, FLAMMABLE, TOXIC flashpoint less than 23°C	-	3	3024
COUMARIN DERIVATIVE PESTICIDE, LIQUID, TOXIC	-	6.1	3026
COUMARIN DERIVATIVE PESTICIDE, LIQUID, TOXIC, FLAMMABLE flashpoint not less than 23°C	-	6.1	3025
COUMARIN DERIVATIVE PESTICIDE, SOLID, TOXIC	-	6.1	3027
Coumatetralyl, *see* COUMARIN DERIVATIVE PESTICIDE	–	–	–
Creosote, *see*	P	9	3082
Creosote Salts, *see*	–	4.1	1334
CRESOLS, LIQUID	–	6.1	2076
CRESOLS, SOLID	–	6.1	3455
Cresyl Diphenyl Phosphate, *see*	PP P	9	3082
CRESYLIC ACID	–	6.1	2022
Crimidine, *see* ORGANOCHLORINE PESTICIDE	–	–	–
Crocidolite, *see*	–	9	2212
CROTONALDEHYDE or CROTONALDEHYDE, STABILIZED	P	6.1	1143
CROTONIC ACID, LIQUID	–	8	3472

CROTONIC ACID, SOLID	–	8	2823
Crotonic Aldehyde, Stabilized, *see*	P	6.1	1143
CROTONYLENE	–	3	1144
Crotoxyphos, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
Crude naphtha, *see*	~~P~~	3	1268
Crufomate, *see* ORGANOPHOSPHORUS PESTICIDE	–	–	–
Cumene, *see*	–	3	1918
Cumyl Hydroperoxide (concentration > 90–98%, with diluent Type A), *see*	–	5.2	3107
Cumyl Hydroperoxide (concentration ≤ 90%, with diluent Type A), *see*	–	5.2	3109
Cumyl Peroxyneodecanoate (concentration ≤ 52% as a stable dispersion in water), *see*	–	5.2	3119
Cumyl Peroxyneodecanoate (concentration ≤ 77%, with diluent Type B), *see*	–	5.2	3115
Cumyl Peroxyneoheptanoate (concentration ≤ 77%, with diluent Type A), *see*	–	5.2	3115
Cumyl Peroxypivalate (concentration ≤ 77%, with diluent Type B), *see*	–	5.2	3115
Cupric Arsenite, *see*	P	6.1	1586
Cupric Chlorate, *see*	–	5.1	2721
Cupric Chloride, *see*	~~PP~~ P	8	2802
Cupric Cyanide, *see*	~~PP~~ P	6.1	1587
Cupric Sulphate, *see* **Note 1**	~~PP~~ P	–	–
CUPRIETHYLENEDIAMINE SOLUTION	P	8	1761
Cuprous Chloride, *see*	~~PP~~ P	8	2802
Cut-backs, *see*	~~P~~	3	1999
CUTTERS, CABLE, EXPLOSIVE	–	1.4S	0070
Cyanazine, *see* TRIAZINE PESTICIDE	–	–	–
Cyanide Mixture, Inorganic, solid, N.O.S., *see*	P	6.1	1588
CYANIDES, INORGANIC, SOLID, N.O.S.	P	6.1	1588
CYANIDE SOLUTION, N.O.S.	P	6.1	1935
Cyanides, Organic, flammable, toxic, N.O.S., *see*	~~P~~	3	3273
Cyanides, Organic, toxic, flammable, N.O.S., *see*	~~P~~	6.1	3275
Cyanides, Organic, toxic, N.O.S., *see*	~~P~~	6.1	3276
Cyanoacetonitrile, *see*	–	6.1	2647
CYANOGEN	–	2.3	1026
CYANOGEN BROMIDE	P	6.1	1889
CYANOGEN CHLORIDE, STABILIZED	P	2.3	1589
Cyanophos, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
CYANURIC CHLORIDE	–	8	2670
CYCLOBUTANE	–	2.1	2601
CYCLOBUTYL CHLOROFORMATE	–	6.1	2744
1,5,9-CYCLODODECATRIENE	~~PP~~ P	6.1	2518
CYCLOHEPTANE	–	3	2241
CYCLOHEPTATRIENE	–	3	2603
1,3,5-Cycloheptatriene, *see*	–	3	2603
CYCLOHEPTENE	–	3	2242

1,4-Cyclohexadienedione, *see*	–	6.1	2587
CYCLOHEXANE	–	3	1145
CYCLOHEXANETHIOL	–	3	3054
CYCLOHEXANONE	–	3	1915
Cyclohexanone Peroxide(s) (concentration ≤ 32%, with inert solid) **(exempt)**	–	–	–
Cyclohexanone Peroxide(s) (concentration ≤ 72%, as a paste, with diluent Type A, with or without water, available oxygen ≤ 9%), *see*	–	5.2	3106
Cyclohexanone Peroxide(s) (concentration ≤ 72%, with diluent Type A, available oxygen ≤ 9%), *see*	–	5.2	3105
Cyclohexanone Peroxide(s) (concentration ≤ 91%, with water), *see*	–	5.2	3104
CYCLOHEXENE	–	3	2256
CYCLOHEXENYLTRICHLOROSILANE	–	8	1762
Cycloheximide, *see* PESTICIDE, N.O.S.	–	–	–
CYCLOHEXYL ACETATE	–	3	2243
CYCLOHEXYLAMINE	–	8	2357
CYCLOHEXYL ISOCYANATE	–	6.1	2488
CYCLOHEXYL MERCAPTAN	–	3	3054
CYCLOHEXYLTRICHLOROSILANE	–	8	1763
CYCLONITE AND HMX MIXTURE, DESENSITIZED with not less than 10% phlegmatizer, by mass	–	1.1D	0391
CYCLONITE AND HMX MIXTURE, WETTED with not less than 15% water, by mass	–	1.1D	0391
CYCLONITE AND OCTOGEN MIXTURE, DESENSITIZED with not less than 10% phlegmatizer, by mass	–	1.1D	0391
CYCLONITE AND OCTOGEN MIXTURE, WETTED with not less than 15% water, by mass	–	1.1D	0391
CYCLONITE, DESENSITIZED	–	1.1D	0483
CYCLONITE, WETTED with not less than 15% water, by mass	–	1.1D	0072
CYCLOOCTADIENE PHOSPHINES	–	4.2	2940
CYCLOOCTADIENES	–	3	2520
CYCLOOCTATETRAENE	–	3	2358
CYCLOPENTANE	–	3	1146
CYCLOPENTANOL	–	3	2244
CYCLOPENTANONE	–	3	2245
CYCLOPENTENE	–	3	2246
CYCLOPROPANE	–	2.1	1027
CYCLOTETRAMETHYLENETETRANITRAMINE, DESENSITIZED	–	1.1D	0484
CYCLOTETRAMETHYLENETETRANITRAMINE, WETTED with not less than 15% water, by mass	–	1.1D	0226
CYCLOTRIMETHYLENETRINITRAMINE AND CYCLOTETRAMETHYLENETETRANITRAMINE MIXTURE, DESENSITIZED with not less than 10% phlegmatizer, by mass	–	1.1D	0391
CYCLOTRIMETHYLENETRINITRAMINE AND CYCLOTETRAMETHYLENETETRANITRAMINE MIXTURE, WETTED with not less than 15% water, by mass	–	1.1D	0391
CYCLOTRIMETHYLENETRINITRAMINE, DESENSITIZED	–	1.1D	0483
CYCLOTRIMETHYLENETRINITRAMINE, WETTED with not less than 15% water, by mass	–	1.1D	0072
Cyhexatin, *see* ORGANOTIN PESTICIDE	pp	–	–

	P		
CYMENES	PP P	3	2046
Cymol, *see*	PP P	3	2046
Cypermethrin, *see* PYRETHROID PESTICIDE	PP P	–	–
~~2,4-D, *see* PHENOXY PESTICIDE~~	P	–	–
2,4-D, *see* PHENOXYACETIC ACID DERIVATIVE	-	-	-
DANGEROUS GOODS IN APPARATUS	–	9	3363
DANGEROUS GOODS IN MACHINERY	–	9	3363
Dazomet, *see* PESTICIDE, N.O.S.	–	–	–
~~2,4-DB, *see* PHENOXY PESTICIDE~~	–	–	–
2,4-DB, *see* PHENOXYACETIC ACID DERIVATIVE	-	-	-
DDT, *see* ORGANOCHLORINE PESTICIDE	PP P	–	–
Deanol, *see*	–	8	2051
DECABORANE	–	4.1	1868
DECAHYDRONAPHTHALENES	–	3	1147
Decaldehyde, *see*	P	9	3082
Decalin, *see*	–	3	1147
DECANE	–	3	2247
Decyl Acrylate, *see*	P	9	3082
Decyloxytetrahydrothiophene Dioxide, *see* **Note 1**	P	–	–
DEF, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
)EFLAGRATING METAL SALTS OF AROMATIC NITRO DERIVATIVES, N.O.S.	–	1.3C	0132
Demephion, *see* ORGANOPHOSPHORUS PESTICIDE	–	–	–
Demeton, *see* ORGANOPHOSPHORUS PESTICIDE	–	–	–
Demeton-O, *see* ORGANOPHOSPHORUS PESTICIDE	–	–	–
Demeton-O-methyl, thiono isomer, *see* ORGANOPHOSPHORUS PESTICIDE	–	–	–
Demeton-S-methyl, *see* ORGANOPHOSPHORUS PESTICIDE	–	–	–
Demeton-S-methylsulphoxyd, *see* ORGANOPHOSPHORUS PESTICIDE	–	–	–
Depth Charges, *see*	–	1.1D	0056
DESENSITIZED EXPLOSIVE, LIQUID, N.O.S.	–	3	3379
DESENSITIZED EXPLOSIVE, SOLID, N.O.S.	–	4.1	3380
Desmediphan, *see* **Note 1**	P	–	–
Detonating Relays, *see* DETONATORS, NON-ELECTRIC, for blasting, or DETONATOR ASSEMBLIES, NON-ELECTRIC for blasting	–	–	–
DETONATOR ASSEMBLIES, NON-ELECTRIC for blasting	–	1.1B	0360
DETONATOR ASSEMBLIES, NON-ELECTRIC for blasting	–	1.4B	0361
DETONATOR ASSEMBLIES, NON-ELECTRIC for blasting	–	1.4S	0500
DETONATORS, ELECTRIC for blasting	–	1.1B	0030
DETONATORS, ELECTRIC for blasting	–	1.4B	0255
DETONATORS, ELECTRIC for blasting	–	1.4S	0456
DETONATORS FOR AMMUNITION	–	1.1B	0073

DETONATORS FOR AMMUNITION	–	1.2B	0364
DETONATORS FOR AMMUNITION	–	1.4B	0365
DETONATORS FOR AMMUNITION	–	1.4S	0366
DETONATORS, NON-ELECTRIC for blasting	–	1.1B	0029
DETONATORS, NON-ELECTRIC for blasting	–	1.4B	0267
DETONATORS, NON-ELECTRIC for blasting	–	1.4S	0455
DEUTERIUM, COMPRESSED	–	2.1	1957
DEVICES, SMALL, HYDROCARBON GAS POWERED	–	2.1	3150
Diacetone, *see*	–	3	1148
DIACETONE ALCOHOL	–	3	1148
Diacetone Alcohol Peroxides (concentration ≤ 57%, with diluent Type B and water, Hydrogen Peroxide ≤ 9%, available oxygen ≤ 10%), *see*	–	5.2	3115
Diacetyl, *see*	–	3	2346
Diacetyl peroxide (concentration ≤ 27%, with diluent Type B), *see*	–	5.2	3115
Dialifos, *see* ORGANOPHOSPHORUS PESTICIDE	~~PP~~ P	–	–
Dialifos, *see* ORGANOPHOSPHORUS PESTICIDE	~~PP~~ P	–	–
Di-allate, *see* PESTICIDE, N.O.S.	P	–	–
DIALLYLAMINE	–	3	2359
DIALLYL ETHER	–	3	2360
Diamine, Aqueous Solution, *see*	–	6.1	3293
Diaminobenzenes (*ortho*-; *meta*-; *para*-), *see*	–	6.1	1673
4,40-DIAMINODIPHENYLMETHANE	P	6.1	2651
1,2-Diaminoethane, *see*	–	8	1604
1,6-Diaminohexane, Solid, *see*	–	8	2280
1,6-Diaminohexane Solution, *see*	–	8	1783
Diaminopropylamine, *see*	–	8	2269
DI-*n*-AMYLAMINE	–	3	2841
Di-*tert*-Amyl Peroxide (concentration ≤ 100%), *see*	–	5.2	3107
1,1-Di-(*tert*-amylperoxy)cyclohexane (concentration ≤ 82%, with diluent Type A), *see*	–	5.2	3103
Diazinon, *see* ORGANOPHOSPHORUS PESTICIDE	~~PP~~ P	–	–
DIAZODINITROPHENOL, WETTED with not less than 40% water or mixture of alcohol and water, by mass	–	1.1A	0074
2-Diazo-1-naphthol-4-sulphonic Acid Ester (concentration 100%), *see*	–	4.1	3226
2-Diazo-1-naphthol-5-sulphonic Acid Ester (concentration 100%), *see*	–	4.1	3226
2-Diazo-1-naphthol-4-sulphonylchloride (concentration 100%), *see*	–	4.1	3222
2-Diazo-1-naphthol-5-sulphonylchloride (concentration 100%), *see*	–	4.1	3222
Dibenzopyridine, *see*	–	6.1	2713
Dibenzoyl Peroxide (concentration > 35–52%, with inert solid), *see*	–	5.2	3106
Dibenzoyl Peroxide (concentration > 36–42%, with diluent Type A and water), *see*	–	5.2	3107

Dibenzoyl Peroxide (concentration > 51–100%, with inert solid), *see*	–	5.2	3102
Dibenzoyl Peroxide (concentration > 52–62%, as a paste, with Diluent Type A, with or without water), *see*	–	5.2	3106
Dibenzoyl Peroxide (concentration > 77–94%, with water), *see*	–	5.2	3102
Dibenzoyl Peroxide (concentration ≤ 35%, with inert solid) **(exempt)**	–	–	–
Dibenzoyl Peroxide (concentration ≤ 42% as a stable dispersion in water), *see*	–	5.2	3109
Dibenzoyl Peroxide (concentration ≤ 52%, as a paste, with Diluent Type A, with or without water), *see*	–	5.2	3108
Dibenzoyl Peroxide (concentration ≤ 56.5% as a paste, with water), *see*	–	5.2	3108
Dibenzoyl Peroxide (concentration ≤ 62%, with inert solid and water), *see*	–	5.2	3106
Dibenzoyl Peroxide (concentration ≤ 77%, with water), *see*	–	5.2	3104
DIBENZYLDICHLOROSILANE	–	8	2434
DIBORANE	–	2.3	1911
1,3-Dibromobenzene, *see*	P	9	3082
1,2-DIBROMOBUTAN-3-ONE	–	6.1	2648
1,2-Dibromo-3-chloropropane (pesticides), *see* DIBROMOCHLOROPROPANES	–	6.1	2872
DIBROMOCHLOROPROPANES	–	6.1	2872
DIBROMODIFLUOROMETHANE	–	9	1941
1,2-Dibromoethane, *see*	–	6.1	1605
DIBROMOMETHANE	–	6.1	2664
2,5-Dibutoxy-4-(4-morpholinyl)-benzenediazonium Tetrachlorozincate(2:1) (concentration 100%), *see*	–	4.1	3228
DI-*n*-BUTYLAMINE	–	8	2248
N,*N*-DI-*n*-BUTYLAMINOETHANOL	–	6.1	2873
Dibutylaminoethanol, *see*	–	6.1	2873
2-Dibutylaminoethanol, *see*	–	6.1	2873
1,4-Di-*tert*-butylbenzene, *see*	P	9	3077
Di-(4-*tert*-butylcyclohexyl) Peroxydicarbonate (concentration ≤ 100%), *see*	–	5.2	3114
Di-(4-*tert*-butylcyclohexyl) Peroxydicarbonate (concentration ≤ 42%, as a stable dispersion in water), *see*	–	5.2	3119
DIBUTYL ETHERS	–	3	1149
Di-*normal*-butyl Ketone, *see*	P	3	1224
Di-*tert*-butyl Peroxide (concentration > 52–100%), *see*	–	5.2	3107
Di-*tert*-butyl Peroxide (concentration ≤ 52%, with diluent Type B), *see*	–	5.2	3109
Di-*tert*-butyl Peroxyazelate (concentration ≤ 52%, with diluent Type A), *see*	–	5.2	3105
2,2-Di-(*tert*-butylperoxy)butane (concentration ≤ 52%, with diluent Type A), *see*	–	5.2	3103
1,6-Di-(*tert*-butylperoxycarbonyloxy)hexane (concentration ≤ 72%, with diluent Type A), *see*	–	5.2	3103
1,1-Di-(*tert*-butylperoxy)cyclohexane (concentration > 42–52%, with diluent Type A)	–	5.2	3105
1,1-Di-(*tert*-butylperoxy)cyclohexane (concentration > 52–80%, with diluent Type A), *see*	–	5.2	3103
1,1-Di-(*tert*-butylperoxy)cyclohexane	–	5.2	3101

(concentration > 80–100%), *see*			
1,1-Di-(*tert*-butylperoxy)cyclohexane (concentration ≤ 13%, with diluents Type A and B), *see*	–	5.2	3109
1,1-Di-(*tert*-butylperoxy)cyclohexane (concentration ≤ 27%, with diluent Type A), *see*	–	5.2	3107
1,1-Di-(*tert*-butylperoxy)cyclohexane (concentration ≤ 42%, with diluent Type A), *see*	–	5.2	3109
1,1-Di-(*tert*-butylperoxy)cyclohexane (concentration ≤ 42%, with diluent Type A and inert solid), *see*	–	5.2	3106
Di-*n*-butyl Peroxydicarbonate (concentration > 27–52%, with diluent Type B), *see*	–	5.2	3115
Di-*n*-butyl peroxydicarbonate (concentration ≤ 27%, with diluent Type B), *see*	–	5.2	3317
Di-*n*-butyl Peroxydicarbonate (concentration ≤ 42% as a stable dispersion in water (frozen)), *see*	–	5.2	3118
Di-*sec*-butyl peroxydicarbonate (concentration > 52–100%), *see*	–	5.2	3113
Di-*sec*-butyl Peroxydicarbonate (concentration ≤ 52%, with diluent Type B), *see*	–	5.2	3115
Di-(2-*tert*-butylperoxyisopropyl)benzene(s) (concentration > 42–100%, with inert solid), *see*	–	5.2	3106
Di-(2-*tert*-butylperoxyisopropyl)benzene(s) (concentration ≤ 42%, with inert solid) **(exempt)**	–	–	–
Di-(*tert*-butylperoxy) Phthalate (concentration > 42–52%, with diluent Type A), *see*	–	5.2	3105
Di-(*tert*-butylperoxy) Phthalate (concentration ≤ 42%, with diluent Type A), *see*	–	5.2	3107
Di-(*tert*-butylperoxy) Phthalate (concentration ≤ 52%, as a paste with diluent Type A, with or without water), *see*	–	5.2	3106
2,2-Di-(*tert*-butylperoxy)propane (concentration ≤ 42%, with diluent Type A), *see*	–	5.2	3106
2,2-Di-(*tert*-butylperoxy)propane (concentration ≤ 52% with diluent Type A), *see*	–	5.2	3105
1,1-Di-(*tert*-butylperoxy)-3,3,5-trimethylcyclohexane (concentration > 57- 90%, with diluent Type A), *see*	–	5.2	3103
1,1-Di-(*tert*-butylperoxy)-3,3,5-trimethylcyclohexane (concentration > 90 -100%), *see*	–	5.2	3101
1,1-Di-(*tert*-butylperoxy)-3,3,5-trimethylcyclohexane (concentration ≤ 32%, with diluents Type A and B), *see*	–	5.2	3107
1,1-Di-(*tert*-butylperoxy)-3,3,5-trimethylcyclohexane (concentration ≤ 57%, with diluent Type A), *see*	–	5.2	3107
1,1-Di-(*tert*-butylperoxy)-3,3,5-trimethylcyclohexane (concentration ≤ 57%, with inert solid), *see*	–	5.2	3110
1,1-Di-(*tert*-butylperoxy)-3,3,5-trimethylcyclohexane (concentration ≤ 77%, with diluent Type B), *see*	–	5.2	3103
2,4-Di-*tert*-butylphenol, *see* **Note 1**	~~P~~	~~8~~	~~2430~~
2,6-Di-*tert*-butylphenol, *see* **Note 1**	~~PP~~	~~8~~	~~2430~~
Di-*n*-Butyl Phthalate, *see*	P	9	3082
Dicetyl Peroxydicarbonate (concentration ≤ 100%), *see*	–	5.2	3116

Dicetyl Peroxydicarbonate (concentration ≤ 42% as a stable dispersion in water), *see*	–	5.2	3119
Dichlofenthion, *see* ORGANOPHOSPHORUS PESTICIDE	PP P	–	–
DICHLOROACETIC ACID	–	8	1764
1,3-DICHLOROACETONE	–	6.1	2649
DICHLOROACETYL CHLORIDE	–	8	1765
DICHLOROANILINES, LIQUID	P	6.1	1590
DICHLOROANILINES, SOLID	P	6.1	3442
ortho-DICHLOROBENZENE	–	6.1	1591
1,2-Dichlorobenzene, *see*	–	6.1	1591
1,3-Dichlorobenzene, *see*	P	6.1	2810
1,4-Dichlorobenzene, *see*	P	9	3082
meta-Dichlorobenzene, *see*	P	6.1	2810
para-Dichlorobenzene, *see*	P	9	3082
Di-(4-chlorobenzoyl) Peroxide (concentration ≤ 32%, with inert solid) **(exempt)**	–	–	–
Di-4-chlorobenzoyl Peroxide (concentration ≤ 52%, as a paste, with diluent Type A, with or without water), *see*	–	5.2	3106
Di-4-chlorobenzoyl Peroxide (concentration ≤ 77%, with water), *see*	–	5.2	3102
2,20-DICHLORODIETHYL ETHER	–	6.1	1916
DICHLORODIFLUOROMETHANE	–	2.2	1028
DICHLORODIFLUOROMETHANE AND DIFLUOROETHANE AZEOTROPIC MIXTURE with approximately 74% dichlorodifluoromethane	–	2.2	2602
Dichlorodifluoromethane and Ethylene Oxide Mixture, *see*	–	2.2	3070
DICHLORODIMETHYL ETHER, SYMMETRICAL	–	6.1	2249
1,1-DICHLOROETHANE	–	3	2362
1,2-Dichloroethane, *see*	–	3	1184
1,2-DICHLOROETHYLENE	–	3	1150
1,1-Dichloroethylene, Stabilized, *see*	P	3	1303
Di-(2-chloroethyl) Ether, *see*	–	6.1	1916
DICHLOROFLUOROMETHANE	–	2.2	1029
1,6-Dichlorohexane, *see*	P	9	3082
alpha-Dichlorohydrin, *see*	–	6.1	2750
DICHLOROISOCYANURIC ACID, DRY	–	5.1	2465
DICHLOROISOCYANURIC ACID, SALTS	–	5.1	2465
Dichloroisopropyl Alcohol, *see*	–	6.1	2750
DICHLOROISOPROPYL ETHER	–	6.1	2490
DICHLOROMETHANE	–	6.1	1593
1,1-DICHLORO-1-NITROETHANE	–	6.1	2650
DICHLOROPENTANES	–	3	1152
Dichlorophenols, Liquid, *see*	–	6.1	2021
Dichlorophenols, Solid, *see*	–	6.1	2020
DICHLOROPHENYL ISOCYANATES	–	6.1	2250
DICHLOROPHENYLTRICHLOROSILANE	P	8	1766
1,2-DICHLOROPROPANE	–	3	1279
1,1-Dichloropropane, *see*	–	3	1993

1,3-Dichloropropane, *see*	–	3	1993
1,3-DICHLOROPROPANOL-2	–	6.1	2750
1,3-Dichloro-2-propanone, *see*	–	6.1	2649
DICHLOROPROPENES	–	3	2047
DICHLOROSILANE	–	2.3	2189
1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	–	2.2	1958
Dichloro-*s*-triazine-2,4,6-trione	–	5.1	2465
Dichlorvos, *see* ORGANOPHOSPHORUS PESTICIDE	PP P	–	–
Diclofop-methyl, *see* **Note 1**	PP P	–	–
Dicoumarol, *see* COUMARIN DERIVATIVE PESTICIDE	–	–	–
Dicrotophos, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
Dicumyl Peroxide (concentration > 52–100%, with inert solid), *see*	–	5.2	3110
Dicumyl Peroxide (concentration ≤ 52%, with inert solid) **(exempt)**	–	–	–
1,4-Dicyanobutane, *see*	–	6.1	2205
Dicyanogen, *see*	–	2.3	1026
Dicycloheptadiene, Stabilized, *see*	–	3	2251
DICYCLOHEXYLAMINE	–	8	2565
Dicyclohexylamine nitrite, *see*	–	4.1	2687
DICYCLOHEXYLAMMONIUM NITRITE	–	4.1	2687
Dicyclohexyl Peroxydicarbonate (concentration > 91–100%), *see*	–	5.2	3112
Dicyclohexyl Peroxydicarbonate (concentration ≤ 42% as a stable dispersion in water), *see*	–	5.2	3119
Dicyclohexyl Peroxydicarbonate (concentration ≤ 91%, with water), *see*	–	5.2	3114
DICYCLOPENTADIENE	–	3	2048
Didecanoyl Peroxide (concentration ≤ 100%), *see*	–	5.2	3114
Didecanoyl Peroxide (concentration ≤ 22%, with water), *see*	–	5.2	3107
2,2-Di-(4,4-di-(*tert*-butylperoxy)cyclohexyl)propane (concentration ≤ 22%, with water), *see*	–	5.2	3107
2,2-Di-(4,4-di-(*tert*-butylperoxy)cyclohexyl)propane (concentration ≤ 42%, with inert solid), *see*	–	5.2	3106
Di-(2,4-dichlorobenzoyl) Peroxide (concentration ≤ 52%, as a paste, with Silicon Oil), *see*	–	5.2	3106
Di-(2,4-dichlorobenzoyl) Peroxide (concentration ≤ 77%, with water), *see*	–	5.2	3102
DIDYMIUM NITRATE	–	5.1	1465
Dieldrin, *see* ORGANOCHLORINE PESTICIDE	PP P	–	–
DIESEL FUEL	–	3	1202
1,1-Diethoxyethane, *see*	–	3	1088
1,2-Diethoxyethane, *see*	–	3	1153
Di-(2-ethoxyethyl)peroxydicarbonate (concentration ≤ 52%, with diluent Type B), *see*	–	5.2	3115
DIETHOXYMETHANE	–	3	2373
2,5-Diethoxy-4-morpholinobenzenediazonium Tetrafluoroborate (concentration 100%), *see*	–	4.1	3236
2,5-Diethoxy-4-morpholinobenzenediazonium Zinc Chloride (concentration	–	4.1	3236

66%), *see*			
2,5-Diethoxy-4-morpholinobenzenediazonium Zinc Chloride (concentration 67–100%), *see*	–	4.1	3236
2,5-Diethoxy-4-(4-morpholinyl)benzenediazonium Sulphate (concentration 100%), *see*	–	4.1	3226
2,5-Diethoxy-4-(phenylsulphonyl)benzenediazonium Zinc Chloride (concentration 67%), *see*	–	4.1	3236
3,3-DIETHOXYPROPENE	–	3	2374
Diethylacetaldehyde, *see*	–	3	1178
DIETHYLAMINE	–	3	1154
1-Diethylamino-4-aminopentane, *see*	–	6.1	2946
2-DIETHYLAMINOETHANOL	–	8	2686
Diethylaminoethanol, *see*	–	8	2686
3-DIETHYLAMINOPROPYLAMINE	–	3	2684
N,*N*-DIETHYLANILINE	–	6.1	2432
DIETHYLBENZENES	–	3	2049
Diethyl Carbinol, *see*	–	3	1105
DIETHYL CARBONATE	–	3	2366
DIETHYLDICHLOROSILANE	–	8	1767
Diethylenediamine, *see*	–	8	2579
Diethylenediamine, Solid, *see*	–	8	2579
1,4-Diethylene Dioxide, *see*	–	3	1165
Diethyleneglycol Bis(allyl carbonate) + Di-isopropyl peroxydicarbonate (concentration ≤ 88% + ≤ 12%), *see*	–	4.1	3237
DIETHYLENEGLYCOL DINITRATE, DESENSITIZED with not less than 25% non-volatile water-insoluble phlegmatizer, by mass	–	1.1D	0075
Diethylene Oxide, *see*	–	3	1165
DIETHYLENETRIAMINE	–	8	2079
N,*N*-Diethylethanolamine, *see*	–	8	2686
DIETHYL ETHER	–	3	1155
N,*N*-DIETHYLETHYLENEDIAMINE	–	8	2685
Diethyl Formal, *see*	–	3	2373
Di-(2-ethylhexyl) Peroxydicarbonate (concentration > 77–100%), *see*	–	5.2	3113
Di-(2-ethylhexyl) Peroxydicarbonate (concentration ≤ 52%, as a stable dispersion in water (frozen)), *see*	–	5.2	3120
Di-(2-ethylhexyl) Peroxydicarbonate (concentration ≤ 52%, as a stable dispersion in water), *see*	–	5.2	3119
Di-(2-ethylhexyl) Peroxydicarbonate (concentration ≤ 62%, as a stable dispersion in water), *see*	–	5.2	3117
Di-(2-ethylhexyl) Peroxydicarbonate (concentration ≤ 77%, with diluent Type B), *see*	–	5.2	3115
Di-(2-ethylhexyl)phosphoric acid, *see*	–	8	1902
DIETHYL KETONE	–	3	1156
Diethyl Oxalate, *see*	–	6.1	2525
N,*N*-Diethyl-1,3-propanediamine, *see*	–	3	2684
DIETHYL SULPHATE	–	6.1	1594
DIETHYL SULPHIDE	–	3	2375
DIETHYLTHIOPHOSPHORYL CHLORIDE	–	8	2751

Difenacoum, *see* COUMARIN DERIVATIVE PESTICIDE	–	–	–
Difenzoquat, *see* PESTICIDE, N.O.S.	–	–	–
2,4-Difluoroaniline, *see*	–	6.1	2941
Difluorochloroethane, *see*	–	2.1	2517
Difluorodibromomethane, *see*	–	9	1941
1,1-DIFLUOROETHANE	–	2.1	1030
Difluoroethane and Dichlorodifluoromethane, Azeotropic Mixture with approximately 74% dichlorodifluoromethane, *see* DICHLORODIFLUOROMETHANE AND DIFLUOROETHANE, AZEOTROPIC MIXTURE	–	–	–
1,1-DIFLUOROETHYLENE	–	2.1	1959
DIFLUOROMETHANE	–	2.1	3252
DIFLUOROPHOSPHORIC ACID, ANHYDROUS	–	8	1768
2,2-Dihydroperoxypropane (concentration ≤ 27%, with inert solid), *see*	–	5.2	3102
2,3-DIHYDROPYRAN	–	3	2376
meta-Dihydroxybenzene, *see*	–	6.1	2876
Di-(1-hydroxycyclohexyl) Peroxide (concentration ≤ 100%), *see*	–	5.2	3106
DIISOBUTYLAMINE	–	3	2361
DIISOBUTYLENES, ISOMERIC COMPOUNDS	–	3	2050
DIISOBUTYL KETONE	–	3	1157
Diisobutyryl Peroxide (concentration > 32–52%, with diluent Type A), *see*	–	5.2	3111
Diisobutyryl Peroxide (concentration ≤ 32%, with diluent Type B), *see*	–	5.2	3115
DIISOOCTYL ACID PHOSPHATE	–	8	1902
Diisopropyl, *see*	–	3	2457
DIISOPROPYLAMINE	–	3	1158
Diisopropylbenzene dihydroperoxide (concentration ≤ 82%, with diluent Type A and water), *see*	–	5.2	3106
Diisopropylbenzenes, *see*	P	9	3082
DIISOPROPYL ETHER	–	3	1159
Diisopropylnaphthalenes, mixed isomers, *see*	P	9	3082
Diisopropyl Peroxidicarbonate (concentration ≤ 28%, with diluent Type A), *see*	–	5.2	3115
Diisopropyl Peroxydicarbonate (concentration > 52–100%), *see*	–	5.2	3112
Diisopropyl Peroxydicarbonate (concentration ≤ 52%, with Diluent Type B), *see*	–	5.2	3115
DIKETENE, STABILIZED	–	6.1	2521
Dilauroyl Peroxide (concentration ≤ 100%), *see*	–	5.2	3106
Dilauroyl Peroxide (concentration ≤ 42%, as a stable dispersion in water), *see*	–	5.2	3109
Dimefox, *see* ORGANOPHOSPHORUS PESTICIDE	–	–	–
Dimetan, *see* CARBAMATE PESTICIDE	–	–	–
Dimethoate, *see* ORGANOPHOSPHORUS PESTICIDE	~~PP~~ P	–	–
Di-(3-methoxybutyl) Peroxydicarbonate (concentration ≤ 52%, with diluent Type B), *see*	–	5.2	3115
1,1-DIMETHOXYETHANE	–	3	2377
1,2-DIMETHOXYETHANE	–	3	2252
Dimethoxymethane, *see*	–	3	1234

2,5-Dimethoxy -4-(4-methylphenylsulphonyl)benzenediazonium Zinc Chloride (concentration 79%), *see*	–	4.1	3236
Dimethoxystrychnine, *see*	–	6.1	1570
Dimethyl Acetal, *see*	–	3	2377
1,1-Dimethylacetone, *see*	–	3	2397
Dimethylacetylene, *see*	–	3	1144
DIMETHYLAMINE, ANHYDROUS	–	2.1	1032
DIMETHYLAMINE, AQUEOUS SOLUTION	–	3	1160
4-(Dimethylamino)benzenediazonium trichlorozincate(–1) (concentration 100%), *see*	–	4.1	3228
2-DIMETHYLAMINOACETONITRILE	–	3	2378
4-Dimethylamino-6-(2-dimethylaminoethoxy)toluene-2- diazonium Zinc Chloride (concentration 100%), *see*	–	4.1	3236
2-DIMETHYLAMINOETHANOL	–	8	2051
2-DIMETHYLAMINOETHYL ACRYLATE	–	6.1	3302
2-DIMETHYLAMINOETHYL METHACRYLATE	–	6.1	2522
N,*N*-DIMETHYLANILINE	–	6.1	2253
3,4-Dimethylaniline, *see*	–	6.1	1711
Dimethylarsinic Acid, *see*	–	6.1	1572
Dimethylbenzenes, *see*	–	3	1307
Di-(3-methylbenzoyl) Peroxide (concentration ≤ 20%), with Benzoyl-(3-methylbenzoyl) Peroxide (concentration ≤ 18%), with Dibenzoyl Peroxide (concentration ≤ 4%) and diluent Type B, *see*	–	5.2	3115
Di-(4-methylbenzoyl) Peroxide (concentration ≤ 52% as a paste with silicon oil), *see*	–	5.2	3106
Di-(2-methylbenzoyl) Peroxide (concentration ≤ 87%, with water), *see*	–	5.2	3112
Dimethylbenzylamine, *see*	–	8	2619
N,*N*-Dimethylbenzylamine, *see*	–	8	2619
2,3-DIMETHYLBUTANE	–	3	2457
1,3-DIMETHYLBUTYLAMINE	–	3	2379
DIMETHYLCARBAMOYL CHLORIDE	–	8	2262
Dimethyl Carbinol, *see*	–	3	1219
DIMETHYL CARBONATE	–	3	1161
DIMETHYLCYCLOHEXANES	–	3	2263
N,*N*-DIMETHYLCYCLOHEXYLAMINE	–	8	2264
2,5-Dimethyl-2,5-di-(benzoylperoxy)hexane (concentration > 82–100%), *see*	–	5.2	3102
2,5-Dimethyl-2,5-di-(benzoylperoxy)hexane (concentration ≤ 82%, with inert solid), *see*	–	5.2	3106
2,5-Dimethyl-2,5-di-(benzoylperoxy)hexane (concentration ≤ 82%, with water), *see*	–	5.2	3104
2,5-Dimethyl-2,5-di-(*tert*-butylperoxy)hexane (concentration > 52–100%), *see*	–	5.2	3105
2,5-Dimethyl-2,5-di-(*tert*-butylperoxy)hexane (concentration ≤ 47%, as a paste), *see*	–	5.2	3108
2,5-Dimethyl-2,5-di-(*tert*-butylperoxy)hexane (concentration ≤ 52%, with diluent Type A), *see*	–	5.2	3109
2,5-Dimethyl-2,5-di-(*tert*-butylperoxy)hexane	–	5.2	3108

(concentration ≤ 77%, with inert solid), *see*			
2,5-Dimethyl-2,5-di-(*tert*-butylperoxy)hexyne-3 (concentration > 52–86%, with diluent Type A), *see*	–	5.2	3103
2,5-Dimethyl-2,5-di-(*tert*-butylperoxy)hexyne-3 (concentration > 86–100%), *see*	–	5.2	3101
2,5-Dimethyl-2,5-di-(*tert*-butylperoxy)hexyne-3 (concentration ≤ 52%, with inert solid), *see*	–	5.2	3106
DIMETHYLDICHLOROSILANE	–	3	1162
DIMETHYLDIETHOXYSILANE	–	3	2380
2,5-Dimethyl-2,5-di-(2-ethylhexanoylperoxy)hexane (concentration ≤100%), *see*	–	5.2	3113
2,5-Dimethyl-2,5-dihydroperoxyhexane (concentration ≤ 82%, with water), *see*	–	5.2	3104
DIMETHYLDIOXANES	–	3	2707
DIMETHYL DISULPHIDE	–	3	2381
2,5-Dimethyl-2,5-di-(3,5,5-trimethylhexanoylperoxy)hexane (concentration ≤ 77%, with diluent Type A), *see*	–	5.2	3105
N,*N*-Dimethyldodecylamine, *see* **Note 1**	~~PP~~ P	–	–
Dimethyleneimine, Stabilized, *see*	–	6.1	1185
Dimethylethanolamine, *see*	–	8	2051
DIMETHYL ETHER	–	2.1	1033
N,*N*-DIMETHYLFORMAMIDE	–	3	2265
N,*N*-Dimethylglycinonitrile, *see*	–	3	2378
Dimethylglyoxal, *see*	–	3	2346
2,6-Dimethyl-4-heptanone, *see*	–	3	1157
1,1-Dimethylhydrazine, *see*	P	6.1	1163
1,2-Dimethylhydrazine, *see*	P	6.1	2382
DIMETHYLHYDRAZINE, SYMMETRICAL	P	6.1	2382
DIMETHYLHYDRAZINE, UNSYMMETRICAL	P	6.1	1163
1,1-Dimethyl-3-hydroxybutyl Peroxyneoheptanoate (concentration ≤ 52%, with diluent Type A), *see*	–	5.2	3117
Dimethyl Ketone, *see*	–	3	1090
Dimethyl Ketone Solutions, *see*	–	3	1090
N,*N*-Dimethyl-4-nitroso-aniline, *see*	–	4.2	1369
para-Dimethylnitrosoaniline, *see*	–	4.2	1369
Dimethylphenols, Liquid, *see*	–	6.1	3430
Dimethylphenols, Solid, *see*	–	6.1	2261
Dimethyl Phosphorochlorodithionate, *see*	–	6.1	2267
2,2-DIMETHYLPROPANE	–	2.1	2044
N,*N*-DIMETHYLPROPYLAMINE	–	3	2266
Dimethyl-*n*-propylamine, *see*	–	3	2266
Dimethyl *normal*-Propyl Carbinol, *see*	–	3	2560
DIMETHYL SULPHATE	–	6.1	1595
DIMETHYL SULPHIDE	–	3	1164
DIMETHYL THIOPHOSPHORYL CHLORIDE	–	6.1	2267
Dimetilan, *see* CARBAMATE PESTICIDE	–	–	–
Dimexano, *see* PESTICIDE, N.O.S.	–	–	–
Dimyristyl Peroxydicarbonate (concentration ≤ 100%), *see*	–	5.2	3116

Dimyristyl Peroxydicarbonate (concentration ≤ 42%, as a stable dispersion in water), *see*	–	5.2	3119
Di-(2-neodecanoylperoxyisopropyl)benzene (concentration ≤ 52%, with diluent Type A), *see*	–	5.2	3115
DINGU	–	1.1D	0489
DINITROANILINES	–	6.1	1596
DINITROBENZENES, LIQUID	–	6.1	1597
DINITROBENZENES, SOLID	–	6.1	3443
Dinitrochlorobenzenes, Liquid, *see*	P	6.1	1577
Dinitrochlorobenzenes, Solid, *see*	P	6.1	3441
Dinitrogen Oxide, *see*	–	2.2	1070
Dinitrogen Oxide, Refrigerated Liquid, *see*	–	2.2	2201
DINITROGEN TETROXIDE	–	2.3	1067
Dinitrogen Tetroxide and Nitric Oxide Mixtures, *see* NITRIC OXIDE AND DINITROGEN TETROXIDE MIXTURE	–	–	–
Dinitrogen Trioxide, *see*	–	2.3	2421
DINITROGLYCOLURIL	–	1.1D	0489
DINITRO-*ortho*-CRESOL	P	6.1	1598
Dinitrophenates (class 1), *see*	P	1.3C	0077
Dinitrophenates, Wetted, *see*	P	4.1	1321
DINITROPHENOLATES alkali metals, dry or wetted with less than 15% water, by mass	P	1.3C	0077
DINITROPHENOLATES, WETTED with not less than 15% water, by mass	P	4.1	1321
DINITROPHENOL dry or wetted with less than 15% water, by mass	P	1.1D	0076
DINITROPHENOL SOLUTION	P	6.1	1599
DINITROPHENOL, WETTED with not less than 15% water, by mass	P	4.1	1320
DINITRORESORCINOL dry or wetted with less than 15% water, by mass	–	1.1D	0078
DINITRORESORCINOL, WETTED with not less than 15% water, by mass	–	4.1	1322
DINITROSOBENZENE	–	1.3C	0406
N,*N*0-Dinitroso-*N*,*N*0-dimethylterephthalamide, as a paste (concentration 72%), *see*	–	4.1	3224
N,*N*0-Dinitrosopentamethylenetetramine (concentration 82%), *see*	–	4.1	3224
Dinitrotoluene mixed with Sodium Chlorate, *see*	–	1.1D	0083
DINITROTOLUENES, LIQUID	–	6.1	2038
DINITROTOLUENES, MOLTEN	–	6.1	1600
DINITROTOLUENES, SOLID	–	6.1	3454
Dinobuton, *see* SUBSTITUTED NITROPHENOL PESTICIDE	P	–	–
Di-*n*-nonanoyl Peroxide (concentration ≤ 100%), *see*	–	5.2	3116
Dinoseb, *see* SUBSTITUTED NITROPHENOL PESTICIDE	P	–	–
Dinoseb Acetate, *see* SUBSTITUTED NITROPHENOL PESTICIDE	P	–	–
Dinoterb, *see* SUBSTITUTED NITROPHENOL PESTICIDE	–	–	–
Dinoterb Acetate, *see* SUBSTITUTED NITROPHENOL PESTICIDE	–	–	–
Di-*n*-octanoyl Peroxide (concentration ≤ 100%), *see*	–	5.2	3114
Dioxacarb, *see* CARBAMATE PESTICIDE	P	–	–
DIOXANE	–	3	1165
Dioxathion, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–

DIOXOLANE	–	3	1166
DIPENTENE	P	3	2052
Di-*normal*-pentylamine, *see*	–	3	2841
Diphacinone, *see* PESTICIDE, N.O.S.	P	–	–
Di-(2-phenoxyethyl) Peroxydicarbonate (concentration > 85–100%), *see*	–	5.2	3102
Di-(2-phenoxyethyl) Peroxydicarbonate (concentration ≤ 85%, with water), *see*	–	5.2	3106
Diphenyl, *see*	P	9	3077
DIPHENYLAMINE CHLOROARSINE	PP P	6.1	1698
Diphenylbromomethane, *see*	–	8	1770
DIPHENYLCHLOROARSINE, LIQUID	PP P	6.1	1699
DIPHENYLCHLOROARSINE, SOLID	PP P	6.1	3450
DIPHENYLDICHLOROSILANE	–	8	1769
DIPHENYLMETHYL BROMIDE	–	8	1770
Diphenyloxide-4,40-disulphonylhydrazide (concentration 100%), *see*	–	4.1	3226
DIPICRYLAMINE	–	1.1D	0079
DIPICRYL SULPHIDE dry or wetted with less than 10% water, by mass	–	1.1D	0401
DIPICRYL SULPHIDE, WETTED with not less than 10% water, by mass	–	4.1	2852
Di-2-propenylamine, *see*	–	3	2359
Dipropionyl Peroxide (concentration ≤ 27%, with diluent Type B), *see*	–	5.2	3117
Di-*normal*-propylamine, *see*	–	3	2383
DIPROPYLAMINE	–	3	2383
4-Dipropylaminobenzenediazonium Zinc Chloride (concentration 100%), *see*	–	4.1	3226
Dipropylenetriamine, *see*	–	8	2269
DIPROPYL ETHER	–	3	2384
DIPROPYL KETONE	–	3	2710
Di-*n*-propyl Pero xydicarbonate (concentration ≤ 100%), *see*	–	5.2	3113
Di-*n*-propyl Peroxydicarbonate (concentration ≤ 77%, with diluent Type B), *see*	–	5.2	3113
Diquat, *see* BIPYRIDILIUM PESTICIDE	–	–	–
DISINFECTANT, LIQUID, CORROSIVE, N.O.S.	~~P~~	8	1903
DISINFECTANT, LIQUID, TOXIC, N.O.S.	~~P~~	6.1	3142
DISINFECTANT, SOLID, TOXIC, N.O.S.	~~P~~	6.1	1601
DISODIUM TRIOXOSILICATE	–	8	3253
Disodium Trioxosilicate, Pentahydrate, *see*	–	8	3253
Disuccinic Acid Peroxide (concentration > 72–100%), *see*	–	5.2	3102
Disuccinic Acid Peroxide (concentration ≤ 72%, with water), *see*	–	5.2	3116
Disulfoton, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
Disulphuric Acid, *see*	–	8	1831
Disulphuryl Chloride, *see*	–	8	1817
Di-(3,5,5-trimethylhexanoyl) Peroxide (concentration > 38–82%, with diluent Type A), *see*	–	5.2	3115

Di-(3,5,5-trimethylhexanoyl) Peroxide (concentration ≤ 38%, with diluent Type A), *see*	–	5.2	3119
Di-(3,5,5-trimethylhexanoyl) Peroxide (concentration ≤ 52%, as a stable dispersion in water), *see*	–	5.2	3119
DIVINYL ETHER, STABILIZED	–	3	1167
Divinyl Oxide, Stabilized, *see*	–	3	1167
Divinyl, Stabilized, *see*	–	2.1	1010
DNOC, *see*	P	6.1	1598
Dnoc (pesticide), *see* SUBSTITUTED NITROPHENOL PESTICIDE	P	–	–
Dodecahydrodiphenylamine, *see*	–	8	2565
Dodecene, *see*	–	3	2850
1-Dodecylamine, *see* **Note 1**	P	–	–
Dodecyl Diphenyl Oxide Disulphonate, *see*	P	9	3077
Dodecyl Hydroxypropyl Sulphide, *see* **Note 1**	PP P	–	–
Dodecylphenol, *see*	PP P	8	3145
DODECYLTRICHLOROSILANE	–	8	1771
Drazoxolon, *see* PESTICIDE, N.O.S.	P	–	–
DRY ICE	–	9	1845
DYE INTERMEDIATE, LIQUID, CORROSIVE, N.O.S.	-	8	2801
DYE INTERMEDIATE, LIQUID, TOXIC, N.O.S.	-	6.1	1602
DYE INTERMEDIATE, SOLID, CORROSIVE, N.O.S.	-	8	3147
DYE INTERMEDIATE, SOLID, TOXIC, N.O.S.	-	6.1	3143
DYE, LIQUID, CORROSIVE, N.O.S.	-	8	2801
DYE, LIQUID, TOXIC, N.O.S.	-	6.1	1602
DYE, SOLID, CORROSIVE, N.O.S.	-	8	3147
DYE, SOLID, TOXIC, N.O.S.	-	6.1	3143
Dynamite, *see*	–	1.1D	0081
Edifenphos, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
Electric Storage Batteries, *see* BATTERIES	–	–	–
Electrolyte (Acid) for Batteries	–	8	2796
Electrolyte (Alkaline) for Batteries	–	8	2797
ELEVATED TEMPERATURE LIQUID, FLAMMABLE, N.O.S. with flashpoint above 60°C, at or above its flashpoint	-	3	3256
ELEVATED TEMPERATURE LIQUID, N.O.S. at or above 100°C and below its flashpoint (including molten metals, molten salts, etc.)	-	9	3257
ELEVATED TEMPERATURE SOLID, N.O.S. at or above 240°C	-	9	3258
Enamel, *see* PAINT	–	–	–
Endosulfan, *see* ORGANOCHLORINE PESTICIDE	PP P	–	–
Endothal-sodium, *see* PESTICIDE, N.O.S.	–	–	–
Endothion, *see* ORGANOPHOSPHORUS PESTICIDE	–	–	–
Endrin, *see* ORGANOCHLORINE PESTICIDE	PP P	–	–
ENGINE, INTERNAL COMBUSTION or VEHICLE, FLAMMABLE GAS POWERED or VEHICLE, FLAMMABLE LIQUID POWERED	-	9	3166
Engines, Rocket, *see* ROCKET MOTORS WITH HYPERGOLIC LIQUIDS	–	–	–
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	-	9	3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	-	9	3077
EPIBROMOHYDRIN	P	6.1	2558
EPICHLOROHYDRIN	P	6.1	2023
EPN, *see* ORGANOPHOSPHORUS PESTICIDE	PP	–	–
1,2-Epoxybutane, Stabilized, *see*	–	3	3022
1,2-Epoxyethane, *see*	–	2.3	1040
1,2-Epoxyethane with Nitrogen up to a total pressure of 1 MPa (10 bar) at 50°C, *see*	–	2.3	1040
1,2-EPOXY-3-ETHOXYPROPANE	–	3	2752
2,3-Epoxy-1-propanal, *see*	–	3	2622
1,2-Epoxypropane, *see*	–	3	1280
2,3-Epoxypropionaldehyde, *see*	–	3	2622
2,3-Epoxypropyl Ethyl Ether, *see*	–	3	2752
Esfenvalerate, *see* **Note 1**	PP	–	–
ESTERS, N.O.S.	–	3	3272
Ethanal, *see*	–	3	1089
ETHANE	–	2.1	1035
1,2-DI(DIMETHYLAMINO)ETHANE	–	3	2372
ETHANE, REFRIGERATED LIQUID	–	2.1	1961
Ethanethiol, *see*	P	3	2363
Ethanoic Anhydride, *see*	–	8	1715
ETHANOL	–	3	1170
ETHANOLAMINE	–	8	2491
ETHANOL AND GASOLINE MIXTURE or ETHANOL AND MOTOR SPIRIT MIXTURE or ETHANOL AND PETROL MIXTURE, with more than 10% ethanol	-	3	3475
ETHANOLAMINE SOLUTION	–	8	2491
ETHANOL SOLUTION	–	3	1170
Ethanoyl Chloride, *see*	–	3	1717
Ether, *see*	–	3	1155
ETHERS, N.O.S.	-	3	3271
Ethion, *see* ORGANOPHOSPHORUS PESTICIDE	PP	–	–
Ethoate-methyl, *see* ORGANOPHOSPHORUS PESTICIDE	–	–	–
Ethoprophos, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
2-(*N*,*N*-Ethoxycarbonylphenylamino)-3-methoxy-4-(*N*-methyl-*N*-cyclohexylamino)benzenediazonium Zinc Chloride (concentration 62%), *see*	–	4.1	3236
2-(*N*,*N*-Ethoxycarbonylphenylamino)-3-methoxy-4-(*N*-methyl-*N*-cyclohexylamino)benzenediazonium Zinc Chloride (concentration 63–92%), *see*	–	4.1	3236
2-Ethoxyethanol, *see*	–	3	1171
2-Ethoxyethyl Acetate, *see*	–	3	1172
1-Ethoxypropane, *see*	–	3	2615
3-Ethoxy-1-propene, *see*	–	3	2335
ETHYL ACETATE	–	3	1173
Ethylacetic Acid, *see*	–	8	2820
Ethylacetone, *see*	–	3	1249
ETHYLACETYLENE, STABILIZED	–	2.1	2452

ETHYL ACRYLATE, STABILIZED	–	3	1917
Ethylal, *see*	–	3	2373
ETHYL ALCOHOL	–	3	1170
ETHYL ALCOHOL SOLUTION	–	3	1170
Ethyl Aldehyde, *see*	–	3	1089
Ethyl Allyl Ether, *see*	–	3	2335
ETHYLAMINE	–	2.1	1036
ETHYLAMINE, AQUEOUS SOLUTION with not less than 50% but not more than 70% ethylamine	–	3	2270
Ethyl *normal*-Amyl Ketone, *see*	–	3	2271
Ethyl *secondary*-Amyl Ketone, *see*	–	3	2271
ETHYL AMYL KETONES	–	3	2271
2-ETHYLANILINE	–	6.1	2273
N-ETHYLANILINE	–	6.1	2272
ortho-Ethylaniline, *see*	–	6.1	2273
ETHYLBENZENE	–	3	1175
Ethylbenzol, *see*	–	3	1175
N-ETHYL-*N*-BENZYLANILINE	–	6.1	2274
N-ETHYLBENZYLTOLUIDINES, LIQUID	–	6.1	2753
N-ETHYLBENZYLTOLUIDINES, SOLID	–	6.1	3460
ETHYL BORATE	–	3	1176
ETHYL BROMIDE	–	6.1	1891
ETHYL BROMOACETATE	–	6.1	1603
Ethyl Butanoate, *see*	–	3	1180
2-ETHYLBUTANOL	–	3	2275
2-ETHYLBUTYL ACETATE	–	3	1177
2-Ethylbutyl Alcohol, *see*	–	3	2275
ETHYL BUTYL ETHER	–	3	1179
2-ETHYLBUTYRALDEHYDE	–	3	1178
ETHYL BUTYRATE	–	3	1180
Ethyl Carbonate, *see*	–	3	2366
ETHYL CHLORIDE	–	2.1	1037
ETHYL CHLOROACETATE	–	6.1	1181
Ethyl Chlorocarbonate, *see*	–	6.1	1182
Ethyl Chloroethanoate, *see*	–	6.1	1181
ETHYL CHLOROFORMATE	–	6.1	1182
ETHYL 2-CHLOROPROPIONATE	–	3	2935
ETHYL CHLOROTHIOFORMATE	**P**	8	2826
ETHYL CROTONATE	–	3	1862
Ethyl Cyanide, *see*	–	3	2404
Ethyl 3,3-di-(*tert*-amylperoxy)butyrate (concentration ≤ 67%, with diluent Type A), *see*	–	5.2	3105
Ethyl 3,3-di-(*tert*-butylperoxy)butyrate (concentration >77–100%), *see*	–	5.2	3103
Ethyl 3,3-di-(*tert*-butylperoxy)butyrate (concentration ≤ 52%, with inert solid), *see*	–	5.2	3106
Ethyl 3,3-di-(*tert*-butylperoxy)butyrate (concentration ≤ 77%, with diluent Type A), *see*	–	5.2	3105

ETHYLDICHLOROARSINE	P	6.1	1892
ETHYLDICHLOROSILANE	–	4.3	1183
ETHYLENE	–	2.1	1962
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	–	2.1	3138
Ethylene Chloride, *see*	–	3	1184
ETHYLENE CHLOROHYDRIN	–	6.1	1135
ETHYLENEDIAMINE	–	8	1604
ETHYLENE DIBROMIDE	–	6.1	1605
Ethylene Dibromide and Methyl Bromide Mixture, Liquid, *see*	P	6.1	1647
ETHYLENE DICHLORIDE	–	3	1184
Ethylene Fluoride, *see*	–	2.1	1030
ETHYLENE GLYCOL DIETHYL ETHER	–	3	1153
Ethylene Glycol Dimethyl Ether, *see*	–	3	2252
ETHYLENE GLYCOL MONOETHYL ETHER	–	3	1171
ETHYLENE GLYCOL MONOETHYL ETHER ACETATE	–	3	1172
ETHYLENE GLYCOL MONOMETHYL ETHER	–	3	1188
ETHYLENE GLYCOL MONOMETHYL ETHER ACETATE	–	3	1189
ETHYLENEIMINE, STABILIZED	–	6.1	1185
ETHYLENE OXIDE	–	2.3	1040
ETHYLENE OXIDE AND CARBON DIOXIDE MIXTURE with more than 87% ethylene oxide	–	2.3	3300
ETHYLENE OXIDE AND CARBON DIOXIDE MIXTURE with more than 9% but not more than 87% ethylene oxide	–	2.1	1041
ETHYLENE OXIDE AND CARBON DIOXIDE MIXTURE with not more than 9% ethylene oxide	–	2.2	1952
ETHYLENE OXIDE AND CHLOROTETRAFLUOROETHANE MIXTURE with not more than 8.8% ethylene oxide	–	2.2	3297
ETHYLENE OXIDE AND DICHLORODIFLUOROMETHANE MIXTURE with not more than 12.5% ethylene oxide	–	2.2	3070
ETHYLENE OXIDE AND PENTAFLUOROETHANE MIXTURE with not more than 7.9% ethylene oxide	–	2.2	3298
ETHYLENE OXIDE AND PROPYLENE OXIDE MIXTURE with not more than 30% ethylene oxide	–	3	2983
ETHYLENE OXIDE AND TETRAFLUOROETHANE MIXTURE with not more than 5.6% ethylene oxide	–	2.2	3299
ETHYLENE OXIDE WITH NITROGEN up to a total pressure of 1 MPa (10 bar) at 50°C	–	2.3	1040
ETHYLENE, REFRIGERATED LIQUID	–	2.1	1038
Ethyl Ethanoate, *see*	–	3	1173
ETHYL ETHER	–	3	1155
Ethyl Fluid, *see*	P	6.1	1649
ETHYL FLUORIDE	–	2.1	2453
ETHYL FORMATE	–	3	1190
Ethyl Glycol, *see*	–	3	1171
Ethyl Glycol Acetate, *see*	–	3	1172
2-Ethylhexaldehyde, *see*	–	3	1191
3-Ethylhexaldehyde, *see*	–	3	1191
2-Ethylhexanal, *see*	–	3	1191

3-Ethylhexanal, *see*	–	3	1191
1-(2-Ethylhexanoylperoxy)-1,3-dimethylbutyl peroxypivalate (concentration ≤ 52%, with diluents Type A and B), *see*	–	5.2	3115
2-ETHYLHEXYLAMINE	–	3	2276
2-ETHYLHEXYL CHLOROFORMATE	–	6.1	2748
2-Ethylhexyl Nitrate, *see* **Note 1**	P	–	–
Ethyl Hydrosulphide, *see*	P	3	2363
Ethylidene Chloride, *see*	–	3	2362
Ethylidene Dichloride, *see*	–	3	2362
Ethylidene Diethyl Ether, *see*	–	3	1088
Ethylidene Difluoride, *see*	–	2.1	1030
Ethylidene Dimethyl Ether, *see*	–	3	2377
Ethylidene Fluoride, *see*	–	2.1	1030
ETHYL ISOBUTYRATE	–	3	2385
ETHYL ISOCYANATE	–	3	2481
Ethyl Isopropyl Ether, *see*	–	3	2615
ETHYL LACTATE	–	3	1192
ETHYL MERCAPTAN	P	3	2363
ETHYL METHACRYLATE, STABILIZED	–	3	2277
Ethyl Methanoate, *see*	–	3	1190
1-Ethyl-2-methylbenzene, *see* **Note 1**	P	–	–
ETHYL METHYL ETHER	–	2.1	1039
ETHYL METHYL KETONE	–	3	1193
Ethyl 2-methylpropanoate, *see*	–	3	2385
ETHYL NITRITE **(transport prohibited)**	–	–	–
ETHYL NITRITE SOLUTION	–	3	1194
ETHYL ORTHOFORMATE	–	3	2524
ETHYL OXALATE	–	6.1	2525
Ethylphenylamine, *see*	–	6.1	2272
N-Ethyl-*N*-phenylbenzylamine, *see*	–	6.1	2274
ETHYLPHENYLDICHLOROSILANE	–	8	2435
5-Ethyl-2-picoline, *see*	–	6.1	2300
1-ETHYLPIPERIDINE	–	3	2386
N-Ethylpiperidine, *see*	–	3	2386
Ethyl Propenoate, Stabilized, *see*	–	3	1917
ETHYL PROPIONATE	–	3	1195
ETHYL PROPYL ETHERS	–	3	2615
Ethyl Silicate, *see*	–	3	1292
Ethyl Sulphate, *see*	–	6.1	1594
Ethyl Sulphide, *see*	–	3	2375
Ethyl Tetraphosphate, *see*	P	6.1	1611
Ethyl Thioalcohol, *see*	P	3	2363
Ethylthioethane, *see*	–	3	2375
N-ETHYLTOLUIDINES	–	6.1	2754
ETHYLTRICHLOROSILANE	–	3	1196
Ethyl Vinyl Ether, *see*	–	3	1302
Explosive Articles, N.O.S., *see* ARTICLES, EXPLOSIVE, N.O.S.	–	–	–

EXPLOSIVE, BLASTING, TYPE A	–	1.1D	0081
EXPLOSIVE, BLASTING, TYPE B	–	1.1D	0082
EXPLOSIVE, BLASTING, TYPE B	–	1.5D	0331
EXPLOSIVE, BLASTING, TYPE C	–	1.1D	0083
EXPLOSIVE, BLASTING, TYPE D	–	1.1D	0084
EXPLOSIVE, BLASTING, TYPE E	–	1.1D	0241
EXPLOSIVE, BLASTING, TYPE E	–	1.5D	0332
Explosive, Seismic, *see* EXPLOSIVE, BLASTING, TYPES A to D	–	–	–
Explosives, Emulsion, *see* EXPLOSIVE, BLASTING, TYPE E	–	–	–
Explosive, Slurry, *see* EXPLOSIVE, BLASTING, TYPE E	–	–	–
Explosive Substances, N.O.S., *see* SUBSTANCES, EXPLOSIVE, N.O.S.	–	–	–
Explosive Train Components, N.O.S., *see* COMPONENTS, EXPLOSIVE TRAIN, N.O.S.	–	–	–
Explosive, Watergel, *see* EXPLOSIVE, BLASTING, TYPE E	–	–	–
EXTRACTS, AROMATIC, LIQUID	~~-~~	3	1169
EXTRACTS, FLAVOURING, LIQUID	~~-~~	3	1197
FABRICS, ANIMAL with oil	~~-~~	4.2	1373
FABRICS IMPREGNATED WITH WEAKLY NITRATED NITROCELLULOSE, N.O.S.	~~-~~	4.1	1353
FABRICS, SYNTHETIC, N.O.S. with oil	~~-~~	4.2	1373
FABRICS, VEGETABLE with oil	~~-~~	4.2	1373
Fenaminosulf, *see* PESTICIDE, N.O.S.	–	–	–
Fenaminphos, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
Fenbutatin Oxide, *see* **Note 1**	~~PP~~ P	–	–
Fenitrothion, *see* ORGANOPHOSPHORUS PESTICIDE	~~PP~~ P	–	–
Fenoxapro-ethyl, *see* **Note 1**	~~PP~~ P	–	–
Fenoxaprop-P-ethyl, *see* **Note 1**	~~PP~~ P	–	–
Fenpropathrin, *see* PESTICIDE, N.O.S.	~~PP~~ P	–	–
Fensulfothion, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
Fenthion, *see* ORGANOPHOSPHORUS PESTICIDE	~~PP~~ P	–	–
Fentin Acetate, *see* ORGANOTIN PESTICIDE	~~PP~~ P	–	–
Fentin Hydroxide, *see* ORGANOTIN PESTICIDE	~~PP~~ P	–	–
Fermentation Amyl Alcohol, *see*	–	3	1201
FERRIC ARSENATE	P	6.1	1606
FERRIC ARSENITE	P	6.1	1607
FERRIC CHLORIDE, ANHYDROUS	–	8	1773
FERRIC CHLORIDE SOLUTION	–	8	2582
FERRIC NITRATE	–	5.1	1466
Ferric Perchloride, Anhydrous, *see*	–	8	1773
Ferric Perchloride Solution, *see*	–	8	2582
FERROCERIUM	–	4.1	1323

Ferrosilicon with 25 to 30% silicon or with 90% or more silicon (including briquettes) **(material hazardous only in bulk)**	–	–	–
FERROSILICON with 30% or more but less than 90% silicon	–	4.3	1408
FERROUS ARSENATE	P	6.1	1608
FERROUS METAL BORINGS in a form liable to self-heating	–	4.2	2793
FERROUS METAL CUTTINGS in a form liable to self-heating	–	4.2	2793
FERROUS METAL SHAVINGS in a form liable to self-heating	–	4.2	2793
FERROUS METAL TURNINGS in a form liable to self-heating	–	4.2	2793
FERTILIZER AMMONIATING SOLUTION with free ammonia	–	2.2	1043
Fertilizers Containing Ammonium Nitrate, *see* AMMONIUM NITRATE FERTILIZERS	–	–	–
FIBRES ANIMAL burnt, wet or damp	–	4.2	1372
FIBRES, ANIMAL with oil, N.O.S.	÷	4.2	1373
FIBRES, SYNTHETIC, N.O.S. with oil	÷	4.2	1373
FIBRES VEGETABLE burnt, wet or damp	–	4.2	1372
FIBRES, VEGETABLE, DRY	–	4.1	3360
FIBRES, VEGETABLE with oil, N.O.S.	÷	4.2	1373
FIBRES WITH WEAKLY NITRATED NITROCELLULOSE, N.O.S.	÷	4.1	1353
Filler, Liquid, *see* PAINT	–	–	–
Films, Nitrocellulose-base, from which gelatin has been removed; Film Scrap, *see*	–	4.2	2002
FILMS, NITROCELLULOSE BASE gelatin coated, except scrap	–	4.1	1324
FIRE EXTINGUISHER CHARGES corrosive liquid	–	8	1774
Fire Extinguisher Charges, Expelling, Explosive, *see* CARTRIDGES, POWER DEVICE	–	–	–
FIRE EXTINGUISHERS with compressed or liquefied gas	–	2.2	1044
FIRELIGHTERS, SOLID with flammable liquid	÷	4.1	2623
FIREWORKS	–	1.1G	0333
FIREWORKS	–	1.2G	0334
FIREWORKS	–	1.3G	0335
FIREWORKS	–	1.4G	0336
FIREWORKS	–	1.4S	0337
FIRST AID KIT	–	9	3316
FISHMEAL, STABILIZED Anti-oxidant treated. Moisture content greater than 5% but not exceeding 12% by mass. Fat content not more than 15%	–	9	2216
FISHMEAL, UNSTABILIZED High hazard. Unrestricted moisture content, Unrestricted fat content in excess of 12% by mass; Unrestricted fat content in excess of 15% by mass, in the case of anti-oxidant treated fishmeal	–	4.2	1374
FISHMEAL, UNSTABILIZED Not anti-oxidant treated. Moisture content: more than 5% but not more than 12%, by mass. Fat content: not more than 12%, by mass	–	4.2	1374
FISHSCRAP, STABILIZED Anti-oxidant treated. Moisture content greater than 5% but not exceeding 12% by mass. Fat content not more than 15%.	–	9	2216
FISHSCRAP, UNSTABILIZED High hazard. Unrestricted moisture content, Unrestricted fat content in excess of 12% by mass; Unrestricted fat content in excess of 15% by mass, in the case of anti-oxidant treated fishscrap	–	4.2	1374
FISHSCRAP, UNSTABILIZED Not anti-oxidant treated. Moisture content: more than 5% but not more than 12%, by mass. Fat content: not more than 12%, by mass	–	4.2	1374
Flammable Gas in Lighters, *see*	–	2.1	1057

FLAMMABLE LIQUID, CORROSIVE, N.O.S.	"	3	2924
FLAMMABLE LIQUID, N.O.S.	"	3	1993
FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.	"	3	3286
FLAMMABLE LIQUID, TOXIC, N.O.S.	"	3	1992
FLAMMABLE SOLID, CORROSIVE, INORGANIC, N.O.S.	"	4.1	3180
FLAMMABLE SOLID, CORROSIVE, ORGANIC, N.O.S.	"	4.1	2925
FLAMMABLE SOLID, INORGANIC, N.O.S.	"	4.1	3178
FLAMMABLE SOLID, ORGANIC, MOLTEN, N.O.S.	"	4.1	3176
FLAMMABLE SOLID, ORGANIC, N.O.S.	"	4.1	1325
FLAMMABLE SOLID, OXIDIZING, N.O.S.	"	4.1	3097
FLAMMABLE SOLID, TOXIC, INORGANIC, N.O.S.	"	4.1	3179
FLAMMABLE SOLID, TOXIC, ORGANIC, N.O.S.	"	4.1	2926
FLARES, AERIAL	–	1.1G	0420
FLARES, AERIAL	–	1.2G	0421
FLARES, AERIAL	–	1.3G	0093
FLARES, AERIAL	–	1.4G	0403
FLARES, AERIAL	–	1.4S	0404
Flares, Distress, Small, *see* SIGNAL DEVICES, HAND	–	–	–
Flares, Highway or Railway, *see* SIGNAL DEVICES, HAND	–	–	–
FLARES, SURFACE	–	1.1G	0418
FLARES, SURFACE	–	1.2G	0419
FLARES, SURFACE	–	1.3G	0092
Flares, water-activated, *see* CONTRIVANCES, WATER-ACTIVATED	–	–	–
FLASH POWDER	–	1.1G	0094
FLASH POWDER	–	1.3G	0305
Flax, Dry, *see*	–	4.1	3360
Flowers of Sulphur, *see*	–	4.1	1350
Flue Dust, Arsenical, *see*	–	6.1	1562
Fluoric Acid, *see*	–	8	1790
Fluorine Compounds (pesticides), *see* PESTICIDE, N.O.S.	–	–	–
FLUORINE, COMPRESSED	–	2.3	1045
Fluorine Monoxide, Compressed, *see*	–	2.3	2190
Fluoroacetamide, *see* PESTICIDE, N.O.S.	–	–	–
FLUOROACETIC ACID	–	6.1	2642
FLUOROANILINES	–	6.1	2941
FLUOROBENZENE	–	3	2387
FLUOROBORIC ACID	–	8	1775
Fluoroethane, *see*	–	2.1	2453
Fluoroethanoic Acid, *see*	–	6.1	2642
Fluoroform, *see*	–	2.2	1984
Fluoroformyl Fluoride, Compressed, *see*	–	2.3	2417
Fluoromethane, *see*	–	2.1	2454
FLUOROPHOSPHORIC ACID, ANHYDROUS	–	8	1776
FLUOROSILICATES, N.O.S.	"	6.1	2856
FLUOROSILICIC ACID	–	8	1778
FLUOROSULPHONIC ACID	–	8	1777

FLUOROTOLUENES	–	3	2388
Fonofos, *see* ORGANOPHOSPHORUS PESTICIDE	~~PP~~ P	–	–
Formal, *see*	–	3	1234
Formaldehyde Dimethylacetal, *see*	–	3	1234
FORMALDEHYDE SOLUTION, FLAMMABLE	–	3	1198
FORMALDEHYDE SOLUTION with not less than 25% formaldehyde	–	8	2209
Formalin Solution, flammable, *see*	–	3	1198
Formalin Solution with not less than 25% formaldehyde, *see*	–	8	2209
Formamidine Sulphinic Acid, *see*	–	4.2	3341
Formetanate, *see* CARBAMATE PESTICIDE	P	–	–
Formic Acid Ethyl Ester, *see*	–	3	1190
FORMIC ACID with more than 85% acid by mass	–	8	1779
FORMIC ACID with not less than 5% but less than 10% acid by mass	–	8	3412
FORMIC ACID with not less than 10% but not more than 85% acid by mass	–	8	3412
Formic Aldehyde Solution, Flammable, *see*	–	3	1198
Formothion, *see* ORGANOPHOSPHORUS PESTICIDE	–	–	–
2-Formyl-3,4-dihydro-2*H*-pyran, Stabilized, *see*	–	3	2607
N-Formyl-2-(nitromethylene)-perhydro-1,3-thiazine (concentration 100%), *see*	–	4.1	3236
FRACTURING DEVICES, EXPLOSIVE for oil wells, without detonator	–	1.1D	0099
FUEL, AVIATION, TURBINE ENGINE	–	3	1863
~~FUEL CELL CARTRIDGES containing flammable liquids~~ FUEL CELL CARTRIDGES or FUEL CELL CARTRIDGES CONTAINED IN EQUIPMENT or FUEL CELL CARTRIDGES PLACED WITH EQUIPMENT	–	3	3473
FUEL CELL CARTRIDGES or FUEL CELL CARTRIDGES CONTAINED IN EQUIPMENT or FUEL CELL CARTRIDGES PACKED WITH EQUIPMENT, containing corrosive substances	-	8	3477
FUEL CELL CARTRIDGES or FUEL CELL CARTRIDGES CONTAINED IN EQUIPMENT or FUEL CELL CARTRIDGES PACKED WITH EQUIPMENT, containing hydrogen in metal hydride	-	2.1	3479
FUEL CELL CARTRIDGES or FUEL CELL CARTRIDGES CONTAINED IN EQUIPMENT or FUEL CELL CARTRIDGES PACKED WITH EQUIPMENT, containing liquefied flammable gas	-	2.1	3478
FUEL CELL CARTRIDGES or FUEL CELL CARTRIDGES CONTAINED IN EQUIPMENT or FUEL CELL CARTRIDGES PACKED WITH EQUIPMENT, containing water-reactive substances	-	4.3	3476
Fuel Oil No. 1, *see*	–	3	1223
Fumaroyl Dichloride, *see*	–	8	1780
FUMARYL CHLORIDE	–	8	1780
FUMIGATED UNIT	–	9	3359
FURALDEHYDES	–	6.1	1199
FURAN	–	3	2389
2-Furanmethylamine, *see*	–	3	2526
Furathiocarb (ISO), *see* CARBAMATE PESTICIDES	~~PP~~ P	–	–
Furfuran, *see*	–	3	2389
FURFURYL ALCOHOL	–	6.1	2874

FURFURYLAMINE	–	3	2526
alpha-Furfurylamine, *see*	–	3	2526
2-Furyl Carbinol, *see*	–	6.1	2874
FUSE, DETONATING metal-clad	–	1.1D	0290
FUSE, DETONATING metal-clad	–	1.2D	0102
FUSE, DETONATING, MILD EFFECT metal-clad	–	1.4D	0104
FUSE, IGNITER tubular, metal-clad	–	1.4G	0103
FUSEL OIL	–	3	1201
FUSE, NON-DETONATING	–	1.3G	0101
FUSE, SAFETY	–	1.4S	0105
Fuze, Combination, Percussion or Time, *see* FUZES, DETONATING	–	–	–
FUZES, DETONATING	–	1.1B	0106
FUZES, DETONATING	–	1.2B	0107
FUZES, DETONATING	–	1.4B	0257
FUZES, DETONATING	–	1.4S	0367
FUZES, DETONATING with protective features	–	1.1D	0408
FUZES, DETONATING with protective features	–	1.2D	0409
FUZES, DETONATING with protective features	–	1.4D	0410
FUZES, IGNITING	–	1.3G	0316
FUZES, IGNITING	–	1.4G	0317
FUZES, IGNITING	–	1.4S	0368
GALLIUM	–	8	2803
GAS CARTRIDGES without a release device, non-refillable	–	2	2037
Gas Drips, Hydrocarbon, *see* HYDROCARBONS, LIQUID, N.O.S.	[-]	–	–
GAS OIL	–	3	1202
GASOLINE	[-]	3	1203
Gasoline, Casinghead, *see*	[-]	3	1203
GAS, REFRIGERATED LIQUID, FLAMMABLE, N.O.S.	[-]	2.1	3312
GAS, REFRIGERATED LIQUID, N.O.S.	[-]	2.2	3158
GAS, REFRIGERATED LIQUID, OXIDIZING, N.O.S.	[-]	2.2	3311
GAS SAMPLE, NON-PRESSURIZED, FLAMMABLE, N.O.S. not refrigerated liquid	[-]	2.1	3167
GAS SAMPLE, NON-PRESSURIZED, TOXIC, FLAMMABLE, N.O.S. not refrigerated liquid	[-]	2.3	3168
GAS SAMPLE, NON-PRESSURIZED, TOXIC, N.O.S. not refrigerated liquid	[-]	2.3	3169
Gelatine, Blasting, *see*	–	1.1D	0081
Gelatine Dynamite, *see*	–	1.1D	0081
GENETICALLY MODIFIED MICRO-ORGANISMS	–	9	3245
GENETICALLY MODIFIED ORGANISMS		9	3245
GERMANE	–	2.3	2192
Germanium Hydride, *see*	–	2.3	2192
GLYCEROL-*alpha*-MONOCHLOROHYDRIN	–	6.1	2689
Glycerol-1,3-dichlorohydrin, *see*	–	6.1	2750
Glycerol Trinitrate (class 1), *see* NITROGLYCERIN (class 1)	–	–	–
Glyceryl Trinitrate, *see*	–	3	1204
Glyceryl Trinitrate (class 1), *see* NITROGLYCERIN (class 1)	–	–	–
Glycidal, *see*	–	3	2622

GLYCIDALDEHYDE	–	3	2622
Glycol Chlorohydrin, *see*	–	6.1	1135
Glycol Dimethyl Ether, *see*	–	3	2252
GRENADES hand or rifle, with bursting charge	–	1.1D	0284
GRENADES hand or rifle, with bursting charge	–	1.1F	0292
GRENADES hand or rifle, with bursting charge	–	1.2D	0285
GRENADES hand or rifle, with bursting charge	–	1.2F	0293
Grenades, Illuminating, *see* AMMUNITION, ILLUMINATING	–	–	–
GRENADES, PRACTICE hand or rifle	–	1.2G	0372
GRENADES, PRACTICE hand or rifle	–	1.3G	0318
GRENADES, PRACTICE hand or rifle	–	1.4G	0452
GRENADES, PRACTICE hand or rifle	–	1.4S	0110
Grenades, Smoke, *see* AMMUNITION, SMOKE	–	–	–
Grignard Solution, *see*	–	4.3	1928
GUANIDINE NITRATE	–	5.1	1467
GUANYL NITROSAMINOGUANYLIDENE HYDRAZINE, WETTED with not less than 30% water, by mass	–	1.1A	0113
GUANYL NITROSAMINOGUA NYLTETRAZENE, WETTED with not less than 30% water, or mixture of alcohol and water, by mass	–	1.1A	0114
GUNPOWDER, COMPRESSED	–	1.1D	0028
GUNPOWDER granular, or as a meal	–	1.1D	0027
GUNPOWDER IN PELLETS	–	1.1D	0028
HAFNIUM POWDER, DRY	–	4.2	2545
HAFNIUM POWDER, WETTED with not less than 25% water (a visible excess of water must be present) (a) mechanically produced, particle size less than 53 microns; (b) chemically produced, particle size less than 840 microns	–	4.1	1326
HAY	–	4.1	1327
HEATING OIL, LIGHT	–	3	1202
Heavy Hydrogen, *see*	–	2.1	1957
Heavy Hydrogen, Compressed, *see*	–	2.1	1957
HELIUM, COMPRESSED	–	2.2	1046
HELIUM, REFRIGERATED LIQUID	–	2.2	1963
Hemp, Dry, *see*	–	4.1	3360
Heptachlor, *see* ORGANOCHLORINE PESTICIDE	~~PP~~ P	–	–
HEPTAFLUOROPROPANE	–	2.2	3296
HEPTALDEHYDE	–	3	3056
Heptanal, *see*	–	3	3056
HEPTANES	–	3	1206
2-Heptanone, *see*	–	3	1110
4-Heptanone, *see*	–	3	2710
HEPTENE	–	3	2278
Heptenophos, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
Heptyl Aldehyde, *see*	–	3	3056
Heptylbenzene, *see*	P	9	3082
Heptyl Chloride, *see*	P	3	1993
H E T P, *see*	P	6.1	1611

H E T P (and compressed gas, mixtures), *see*	–	2.3	1612
HEXACHLOROACETONE	–	6.1	2661
HEXACHLOROBENZENE	–	6.1	2729
HEXACHLOROBUTADIENE	PP P	6.1	2279
Hexachloro-1,3-butadiene, *see*	PP P	6.1	2279
1,3-Hexachlorobutadiene, *see*	PP P	6.1	2279
HEXACHLOROCYCLOPENTADIENE	–	6.1	2646
Hexachlorophane, *see*	–	6.1	2875
HEXACHLOROPHENE	–	6.1	2875
Hexachloro-2-propanone, *see*	–	6.1	2661
HEXADECYLTRICHLOROSILANE	–	8	1781
1,3-Hexadiene, *see*	–	3	2458
1,4-Hexadiene, *see*	–	3	2458
1,5-Hexadiene, *see*	–	3	2458
2,4-Hexadiene, *see*	–	3	2458
HEXADIENES	–	3	2458
HEXAETHYL TETRAPHOSPHATE	P	6.1	1611
HEXAETHYL TETRAPHOSPHATE AND COMPRESSED GAS MIXTURE	–	2.3	1612
HEXAFLUOROACETONE	–	2.3	2420
HEXAFLUOROACETONE HYDRATE, LIQUID	–	6.1	2552
HEXAFLUOROACETONE HYDRATE, SOLID	–	6.1	3436
HEXAFLUOROETHANE	–	2.2	2193
HEXAFLUOROPHOSPHORIC ACID	–	8	1782
Hexafluoro-2-propanone, *see*	–	2.3	2420
HEXAFLUOROPROPYLENE	–	2.2	1858
Hexahydrobenzene, *see*	–	3	1145
Hexahydrocresol, *see*	–	3	2617
Hexahydromethylphenol, *see*	–	3	2617
Hexahydropyridine, *see*	–	8	2401
Hexahydrothiophenol, *see*	–	3	3054
Hexahydrotoluene, *see*	–	3	2296
HEXALDEHYDE	–	3	1207
Hexamethylene, *see*	–	3	1145
HEXAMETHYLENEDIAMINE, MOLTEN	–	8	2280
HEXAMETHYLENEDIAMINE, SOLID	–	8	2280
HEXAMETHYLENEDIAMINE SOLUTION	–	8	1783
HEXAMETHYLENE DIISOCYANATE	–	6.1	2281
HEXAMETHYLENEIMINE	–	3	2493
HEXAMETHYLENETETRAMINE	–	4.1	1328
Hexamine, *see*	–	4.1	1328
Hexane, *see*	–	3	1208
1,6-Hexanediamine, Solid, *see*	–	8	2280
1,6-Hexanediamine Solution, *see*	–	8	1783
HEXANES	–	3	1208

HEXANITRODIPHENYLAMINE	–	1.1D	0079
Hexanitrodiphenyl Sulphide, Wetted, *see*	–	4.1	2852
HEXANITROSTILBENE	–	1.1D	0392
Hexanoic Acid, *see*	–	8	2829
HEXANOLS	–	3	2282
1-HEXENE	–	3	2370
HEXOGEN AND HMX MIXTURE, DESENSITIZED with not less than 10% phlegmatizer, by mass	–	1.1D	0391
HEXOGEN AND HMX MIXTURE, WETTED with not less than 15% water, by mass	–	1.1D	0391
HEXOGEN AND OCTOGEN MIXTURE, DESENSITIZED with not less than 10% phelgmatizer, by mass	–	1.1D	0391
HEXOGEN AND OCTOGEN MIXTURE, WETTED with not less than 15% water, by mass	–	1.1D	0391
HEXOGEN, DESENSITIZED	–	1.1D	0483
HEXOGEN, WETTED with not less than 15% water, by mass	–	1.1D	0072
Hexoic Acid, *see*	–	8	2829
HEXOLITE dry or wetted with less than 15% water, by mass	–	1.1D	0118
Hexone, *see*	–	3	1245
HEXOTOL dry or wetted with less than 15% water, by mass	–	1.1D	0118
HEXOTONAL	–	1.1D	0393
HEXOTONAL cast, *see*	–	1.1D	0393
HEXYL	–	1.1D	0079
Hexyl Acetate, *see*	–	3	1233
Hexyl Aldehyde, *see*	–	3	1207
Hexylbenzene, *see*	P	9	3082
Hexyl Chloride, *see*	P	3	1993
alpha-Hexylene, *see*	–	3	2370
Hexylic Acid, *see*	–	8	2829
tert-Hexyl Peroxyneodecanoate (concentration ≤ 71%, with diluent Type A), *see*	–	5.2	3115
tert-Hexyl Peroxypivalate (concentration ≤ 72%, with diluent Type B), *see*	–	5.2	3115
HEXYLTRICHLOROSILANE	–	8	1784
HMDI, *see*	–	6.1	2281
HMX/RDX, *see*	–	1.1D	0391
HMX/TNT, *see*	–	1.1D	0266
HMX, WETTED with not less than 15% water, by mass	–	1.1D	0226
HYDRAZINE, ANHYDROUS	–	8	2029
HYDRAZINE, AQUEOUS SOLUTION with more than 37% hydrazine, by mass	–	8	2030
HYDRAZINE, AQUEOUS SOLUTION with not more than 37% hydrazine, by mass	–	6.1	3293
Hydrazine Base, Aqueous Solution, *see*	–	6.1	3293
Hydrazine hydrate, *see*	–	8	2030
Hydrazinobenzene, *see*	–	6.1	2572
Hydrides, Metal, Water-reactive, N.O.S., *see*	-	4.3	1409
HYDRIODIC ACID	–	8	1787
Hydriodic Acid, Anhydrous, *see*	–	2.3	2917

HYDROBROMIC ACID	–	8	1788
HYDROCARBON GAS MIXTURE, COMPRESSED, N.O.S.	-	2.1	1964
HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S.	-	2.1	1965
HYDROCARBON GAS REFILLS FOR SMALL DEVICES with release device	–	2.1	3150
HYDROCARBONS, LIQUID, N.O.S.	-	3	3295
HYDROCHLORIC ACID	–	8	1789
Hydrocyanic Acid, Anhydrous, Stabilized, containing less than 3% water, *see*	P	6.1	1051
Hydrocyanic Acid, Anhydrous, Stabilized, containing less than 3% water and absorbed in a porous inert material, *see*	P	6.1	1614
HYDROCYANIC ACID, AQUEOUS SOLUTION with not more than 20% hydrogen cyanide	P	6.1	1613
HYDROCYANIC ACID with more than 20% acid by mass **(transport prohibited)**	–	–	–
HYDROFLUORIC ACID AND SULPHURIC ACID MIXTURE	–	8	1786
Hydrofluoric Acid, Anhydrous, *see*	–	8	1052
HYDROFLUORIC ACID solution, with more than 60% ~~hydrofluoric acid~~ hydrogen fluoride	–	8	1790
HYDROFLUORIC ACID solution, with not more than 60% ~~hydrofluoric acid~~ hydrogen fluoride	–	8	1790
Hydrofluoroboric Acid, *see*	–	8	1775
Hydrofluorosilicic Acid, *see*	–	8	1778
HYDROGEN AND METHANE MIXTURE, COMPRESSED	–	2.1	2034
Hydrogen Antimonide, *see*	–	2.3	2676
Hydrogen Arsenide, *see*	–	2.3	2188
Hydrogen Bromide, *see*	–	8	1788
HYDROGEN BROMIDE, ANHYDROUS	–	2.3	1048
Hydrogen Bromide Solution, *see*	–	8	1788
Hydrogen Carboxylic Acid, *see*	–	8	1779
Hydrogen Chloride, *see*	–	8	1789
HYDROGEN CHLORIDE, ANHYDROUS	–	2.3	1050
HYDROGEN CHLORIDE, REFRIGERATED LIQUID **(transport prohibited)**	–	2.3	2186
HYDROGEN, COMPRESSED	–	2.1	1049
HYDROGEN CYANIDE, AQUEOUS SOLUTION with not more than 20% hydrogen cyanide	P	6.1	1613
HYDROGEN CYANIDE SOLUTION IN ALCOHOL with more than 45% Hydrogen Cyanide **(transport prohibited)**	–	–	–
HYDROGEN CYANIDE SOLUTION IN ALCOHOL with not more than 45% hydrogen cyanide	P	6.1	3294
HYDROGEN CYANIDE, STABILIZED containing less than 3% water	P	6.1	1051
HYDROGEN CYANIDE, STABILIZED containing less than 3% water and absorbed in a porous inert material	P	6.1	1614
HYDROGENDIFLUORIDES, SOLID, N.O.S.	-	8	1740
HYDROGENDIFLUORIDES SOLUTION, N.O.S.	-	8	3471
Hydrogen Fluoride, *see*	–	8	1790
HYDROGEN FLUORIDE, ANHYDROUS	–	8	1052
HYDROGEN IN A METAL HYDRIDE STORAGE SYSTEM or HYDROGEN	–	2.1	3468

IN A METAL HYDRIDE STORAGE SYSTEM CONTAINED IN EQUIPMENT OR HYDROGEN IN A METAL HYDRIDE STORAGE SYSTEM PACKED WITH EQIUPMENT			
Hydrogen Iodide, *see*	–	8	1787
HYDROGEN IODIDE, ANHYDROUS	–	2.3	2197
HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, with acid(s), water and not more than 5% peroxyacetic acid, STABILIZED	–	5.1	3149
HYDROGEN PEROXIDE, AQUEOUS SOLUTION, STABILIZED with more than 60% hydrogen peroxide	–	5.1	2015
HYDROGEN PEROXIDE, AQUEOUS SOLUTION with not less than 20% but not more than 60% hydrogen peroxide (stabilized as necessary)	–	5.1	2014
HYDROGEN PEROXIDE, AQUEOUS SOLUTION with not less than 8% but less than 20% hydrogen peroxide (stabilized as necessary)	–	5.1	2984
Hydrogen Peroxide, Solid, *see*	–	5.1	1511
HYDROGEN PEROXIDE, STABILIZED	–	5.1	2015
Hydrogen Phosphide, *see*	–	2.3	2199
HYDROGEN, REFRIGERATED LIQUID	–	2.1	1966
HYDROGEN SELENIDE, ANHYDROUS	–	2.3	2202
Hydrogen Silicide, Compressed, *see*	–	2.1	2203
Hydrogen Sulphates, Aqueous Solution, *see*	-	8	2837
HYDROGEN SULPHIDE	–	2.3	1053
Hydroselenic Acid, Anhydrous, *see*	–	2.3	2202
Hydrosilicofluoric Acid, *see*	–	8	1778
3-Hydroxybutanal, *see*	–	6.1	2839
3-Hydroxybutan-2-one, *see*	–	3	2621
3-Hydroxybutyraldehyde, *see*	–	6.1	2839
2-Hydroxycamphane, *see*	–	4.1	1312
Hydroxydimethylbenzenes, Liquid, *see*	–	6.1	3430
Hydroxydimethylbenzenes, Solid, *see*	–	6.1	2261
2-(2-Hydroxyethoxy)-1-(pyrrolidin-1-yl)benzene-4-diazonium Zinc Chloride (concentration 100%), *see*	–	4.1	3236
3-(2-Hydroxyethoxy)-4-(pyrrolidin-1-yl)benzenediazonium Zinc Chloride (concentration 100%), *see*	–	4.1	3236
2-Hydroxyethylamine, *see*	–	8	2491
HYDROXYLAMINE SULPHATE	–	8	2865
Hydroxylammonium Sulphate, *see*	–	8	2865
1-HYDROXYBENZOTRIAZOLE, ANHYDROUS, dry or wetted with less than 20% water, by mass	-	1.3C	0508
1-HYDROXYBENZOTRIAZOLE, ANHYDROUS, WETTED with not less than 20% water, by mass	-	4.1	3474
1-Hydroxy-3-methyl-2-penten-4-yne, *see*	–	8	2705
3-Hydroxyphenol, *see*	–	6.1	2876
HYPOCHLORITES, INORGANIC, N.O.S.	-	5.1	3212
HYPOCHLORITE SOLUTION	–	8	1791
IGNITERS	–	1.1G	0121
IGNITERS	–	1.2G	0314
IGNITERS	–	1.3G	0315
IGNITERS	–	1.4G	0325

IGNITERS	–	1.4S	0454
Imazalil, *see* PESTICIDE, N.O.S.	–	–	–
3,30-IMINODIPROPYLAMINE	–	8	2269
INFECTIOUS SUBSTANCE, AFFECTING ANIMALS only	–	6.2	2900
INFECTIOUS SUBSTANCE, AFFECTING HUMANS	–	6.2	2814
Inflammable.. , *see* FLAMMABLE..	–	–	–
INSECTICIDE GAS, FLAMMABLE, N.O.S.	₹	2.1	3354
INSECTICIDE GAS, N.O.S.	₹	2.2	1968
INSECTICIDE GAS, TOXIC, FLAMMABLE, N.O.S.	₹	2.3	3355
INSECTICIDE GAS, TOXIC, N.O.S.	₹	2.3	1967
IODINE MONOCHLORIDE	–	8	1792
IODINE PENTAFLUORIDE	–	5.1	2495
2-IODOBUTANE	–	3	2390
Iodomethane, *see*	–	6.1	2644
IODOMETHYLPROPANES	–	3	2391
IODOPROPANES	–	3	2392
alpha-Iodotoluene, *see*	–	6.1	2653
Ioxynil, *see* PESTICIDE, N.O.S	P	–	–
Iprobenfos, *see* ORGANOPHOSPHORUS PESTICIDE	–	–	–
Iron Carbonyl, *see*	–	6.1	1994
Iron Chloride, Anhydrous, *see*	–	8	1773
Iron (III) Chloride, Anhydrous, *see*	–	8	1773
Iron Chloride Solution, *see*	–	8	2582
IRON OXIDE, SPENT obtained from coal gas purification	–	4.2	1376
IRON PENTACARBONYL	–	6.1	1994
Iron Perchloride, Anhydrous, *see*	–	8	1773
Iron Perchloride Solution, *see*	–	8	2582
Iron Powder, *see*	–	4.2	1383
Iron Powder, Pyrophoric, *see*	–	4.2	1383
IRON SPONGE, SPENT obtained from coal gas purification	–	4.2	1376
Iron Swarf, *see*	–	4.2	2793
Iron Trichloride, Anhydrous, *see*	–	8	1773
Iron Trichloride Solution, *see*	–	8	2582
Isoamyl Acetate, *see*	–	3	1104
Isoamyl Alcohol, *see*	–	3	1105
Isoamyl Bromide, *see*	–	3	2341
Isoamyl Butyrate, *see*	–	3	2620
alpha-Isoamylene, *see*	–	3	2561
Isoamyl Formate, *see*	–	3	1109
Isoamyl Mercaptan, *see*	–	3	1111
Isoamyl Nitrate, *see*	–	3	1112
Isoamyl Nitrite, *see*	–	3	1113
Isobenzan, *see* ORGANOCHLORINE PESTICIDE	P	–	–
Isobutanal, *see*	–	3	2045
ISOBUTANE	–	2.1	1969
ISOBUTANOL	–	3	1212
Isobutene, *see*	–	2.1	1055

Isobutenol, *see*	–	3	2614
Isobutenyl Chloride, *see*	–	3	2554
ISOBUTYL ACETATE	–	3	1213
ISOBUTYL ACRYLATE, STABILIZED	–	3	2527
ISOBUTYL ALCOHOL	–	3	1212
ISOBUTYL ALDEHYDE	–	3	2045
ISOBUTYLAMINE	–	3	1214
Isobutylbenzene, *see*	–	3	2709
Isobutyl Bromide, *see*	–	3	2342
ISOBUTYLENE	–	2.1	1055
ISOBUTYL FORMATE	–	3	2393
Isobutyl Iodide, *see*	–	3	2391
ISOBUTYL ISOBUTYRATE	–	3	2528
ISOBUTYL ISOCYANATE	–	3	2486
Isobutyl Mercaptan, *see*	–	3	2347
ISOBUTYL METHACRYLATE, STABILIZED	–	3	2283
ISOBUTYL PROPIONATE	–	3	2394
Isobutyl Vinyl Ether, *see*	–	3	1304
ISOBUTYRALDEHYDE	–	3	2045
ISOBUTYRIC ACID	–	3	2529
ISOBUTYRONITRILE	–	3	2284
ISOBUTYRYL CHLORIDE	–	3	2395
ISOCYANATES, FLAMMABLE, TOXIC, N.O.S.	▼	3	2478
ISOCYANATE SOLUTION, FLAMMABLE, TOXIC, N.O.S.	▼	3	2478
ISOCYANATE SOLUTION, TOXIC, FLAMMABLE, N.O.S.	▼	6.1	3080
ISOCYANATE SOLUTION, TOXIC, N.O.S.	▼	6.1	2206
ISOCYANATES, TOXIC, FLAMMABLE, N.O.S	▼	6.1	3080
ISOCYANATES, TOXIC, N.O.S.	▼	6.1	2206
ISOCYANATOBENZOTRIFLUORIDES	–	6.1	2285
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl Isocyanate, *see*	–	6.1	2290
Isodecyl Acrylate, *see*	P	9	3082
Isodecyl Diphenyl Phosphate, *see*	P	9	3082
Isododecane, *see*	–	3	2286
Isodrin, *see* ORGANOCHLORINE PESTICIDE	–	–	–
Isofenphos, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
ISOHEPTENES	–	3	2287
ISOHEXENES	–	3	2288
Isolan, *see* CARBAMATE PESTICIDE	–	–	–
Isooctaldehyde, *see*	–	3	1191
Isooctane, *see*	–	3	1262
ISOOCTENES	–	3	1216
Isooctyl Nitrate, *see*	P	9	3082
Isopentane, *see*	–	3	1265
ISOPENTENES	–	3	2371
Isopentylamine, *see*	–	3	1106
Isopentyl Nitrite, *see*	–	3	1113
ISOPHORONEDIAMINE	–	8	2289

ISOPHORONE DIISOCYANATE	–	6.1	2290
ISOPRENE, STABILIZED	–	3	1218
Isoprocarb, *see* CARBAMATE PESTICIDE	P	–	–
ISOPROPANOL	–	3	1219
ISOPROPENYL ACETATE	–	3	2403
ISOPROPENYLBENZENE	–	3	2303
Isopropenyl Carbinol, *see*	–	3	2614
Isopropenyl Chloride, *see*	–	3	2456
2-Isopropoxypropane, *see*	–	3	1159
ISOPROPYL ACETATE	–	3	1220
ISOPROPYL ACID PHOSPHATE	–	8	1793
ISOPROPYL ALCOHOL	–	3	1219
alpha-Isopropyl *alpha*-Chloropropionate, *see*	–	3	2934
ISOPROPYLAMINE	–	3	1221
ISOPROPYLBENZENE	–	3	1918
Isopropyl Bromide, *see*	–	3	2344
Isopropyl *sec*-Butyl Peroxydicarbonate (concentration ≤ 32%) with Di-*sec*-butyl Peroxydicarbonate (concentration ≤ 12–18%) and Di-isopropyl Peroxydicarbonate (concentration ≤ 12–15%), (with diluent Type A), *see*	–	5.2	3115
Isopropyl *sec*-Butyl Peroxydicarbonate (concentration ≤ 52%) with Di-*sec*-Butyl Peroxydicarbonate (concentration ≤ 28%) and Di-isopropyl Peroxydicarbonate (concentration ≤ 22%), *see*	–	5.2	3111
ISOPROPYL BUTYRATE	–	3	2405
Isopropyl Carbinol, *see*	–	3	1212
Isopropyl Chloride, *see*	–	3	2356
ISOPROPYL CHLOROACETATE	–	3	2947
Isopropyl Chlorocarbonate, *see*	–	6.1	2407
ISOPROPYL CHLOROFORMATE	–	6.1	2407
Isopropyl Chloromethanoate, *see*	–	6.1	2407
ISOPROPYL 2-CHLOROPROPIONATE	–	3	2934
Isopropyl Cumyl Hydroperoxide (concentration ≤ 72%, with diluent Type A), *see*	–	5.2	3109
Isopropyl Cyanide, *see*	–	3	2284
Isopropyl Ether, *see*	–	3	1159
Isopropylethylene, *see*	–	3	2561
Isopropyl Formate, *see*	–	3	1281
Isopropylideneacetone, *see*	–	3	1229
ISOPROPYL ISOBUTYRATE	–	3	2406
ISOPROPYL ISOCYANATE	–	3	2483
Isopropyl Mercaptan, *see*	–	3	2402
Isopropyl Methanoate, *see*	–	3	1281
ISOPROPYL NITRATE	–	3	1222
ISOPROPYL PROPIONATE	–	3	2409
Isopropyltoluene, *see*	~~PP~~ P	3	2046
Isopropyltoluol, *see*	~~PP~~ P	3	2046
ISOSORBIDE DINITRATE MIXTURE	–	4.1	2907

with not less than 60% lactose, mannose, starch, or calcium hydrogen phosphate			
ISOSORBIDE-5-MONONITRATE	–	4.1	3251
Isotetramethylbenzene, *see*	P	9	3082
Isothioate, *see* ORGANOPHOSPHORUS PESTICIDE	–	–	–
Isovaleraldehyde, *see*	–	3	2058
Isovalerone, *see*	–	3	1157
Isoxathion, *see* ORGANOPHOSPHORUS PESTICIDE	PP P	–	–
JET PERFORATING GUNS, CHARGED oil well, without detonator	–	1.1D	0124
JET PERFORATING GUNS, CHARGED oil well, without detonator	–	1.4D	0494
Jet Tappers, without detonator, *see* CHARGES, SHAPED, COMMERCIAL	–	–	–
Jute, Dry, *see*	–	4.1	3360
Kapok, Dry, *see*	–	4.1	3360
Kelevan, *see* PESTICIDE, N.O.S.	–	–	–
KEROSENE	–	3	1223
Kerosine, *see*	–	3	1223
KETONES, LIQUID, N.O.S.	P	3	1224
KRYPTON, COMPRESSED	–	2.2	1056
KRYPTON, REFRIGERATED LIQUID	–	2.2	1970
Lacquer, *see* PAINT	–	–	–
Lacquer Base, Liquid, *see* PAINT	–	–	–
Lacquer Base Solution, *see*	–	3	2059
LEAD ACETATE	P	6.1	1616
Lead (II) Acetate, *see*	–	6.1	1616
Lead and Zinc Calcines, *see*	P	6.1	2291
LEAD ARSENATES	P	6.1	1617
LEAD ARSENITES	P	6.1	1618
LEAD AZIDE, WETTED with not less than 20% water or mixture of alcohol and water, by mass	–	1.1A	0129
Lead Chloride, Solid, *see*	P	6.1	2291
LEAD COMPOUND, SOLUBLE, N.O.S.	P	6.1	2291
LEAD CYANIDE	P	6.1	1620
Lead (II) Cyanide, *see*	–	6.1	1620
LEAD DIOXIDE	–	5.1	1872
Lead Dross, *see*	–	8	1794
LEAD NITRATE	P	5.1	1469
Lead (II) Nitrate, *see* LEAD NITRATE	–	–	–
Lead (II) Perchlorate, *see*	–	5.1	1470
LEAD PERCHLORATE, SOLID	P	5.1	1470
LEAD PERCHLORATE SOLUTION	P	5.1	3408
Lead Peroxide, *see*	–	5.1	1872
LEAD PHOSPHITE, DIBASIC	–	4.1	2989
LEAD STYPHNATE, WETTED with not less than 20% water, or mixture of alcohol and water, by mass	–	1.1A	0130
LEAD SULPHATE with more than 3% free acid	–	8	1794

Lead Tetraethyl, *see*	P	6.1	1649
Lead Tetramethyl, *see*	P	6.1	1649
LEAD TRINITRORESORCINATE, WETTED with not less than 20% water, or mixture of alcohol and water, by mass	–	1.1A	0130
LIFE-SAVING APPLIANCES, NOT SELF-INFLATING containing dangerous goods as equipment	–	9	3072
LIFE-SAVING APPLIANCES, SELF-INFLATING	–	9	2990
LIGHTER REFILLS containing flammable gas	–	2.1	1057
LIGHTERS containing flammable gas	–	2.1	1057
LIGHTERS, FUSE	–	1.4S	0131
Ligroin, *see* PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S.	–	–	–
Limonene, *see*	P	3	2052
Lindane, *see* ORGANOCHLORINE PESTICIDE	~~PP~~ P	–	–
Linuron, *see* **Note 1**	P	–	–
LIQUEFIED GASES non-flammable, charged with nitrogen, carbon dioxide or air	–	2.2	1058
LIQUEFIED GAS, FLAMMABLE, N.O.S.	~~-~~	2.1	3161
LIQUEFIED GAS, N.O.S.	~~-~~	2.2	3163
LIQUEFIED GAS, OXIDIZING, N.O.S.	~~-~~	2.2	3157
LIQUEFIED GAS, TOXIC, CORROSIVE, N.O.S.	~~-~~	2.3	3308
LIQUEFIED GAS, TOXIC, FLAMMABLE, CORROSIVE, N.O.S.	~~-~~	2.3	3309
LIQUEFIED GAS, TOXIC, FLAMMABLE, N.O.S.	~~-~~	2.3	3160
LIQUEFIED GAS, TOXIC, N.O.S.	~~-~~	2.3	3162
LIQUEFIED GAS, TOXIC, OXIDIZING, CORROSIVE, N.O.S.	~~-~~	2.3	3310
LIQUEFIED GAS, TOXIC, OXIDIZING, N.O.S.	~~-~~	2.3	3307
Liquefied Petroleum Gases, *see*	–	2.1	1075
Liquified natural gas, *see*	–	2.1	1972
LITHIUM	–	4.3	1415
LITHIUM ALKYLS, SOLID	–	4.2	3443
Lithium Alloy (liquid), *see*	–	2.1	1001
LITHIUM ALUMINIUM HYDRIDE	–	4.3	1410
LITHIUM ALUMINIUM HYDRIDE, ETHEREAL	–	4.3	1411
Lithium Amalgams, Liquid, *see*	–	4.3	1389
Lithium Amalgams, Solid, *see*	-	4.3	3401
Lithium Amide, *see*	–	4.3	1390
LITHIUM METAL BATTERIES (including lithium alloy batteries)	–	9	3090
LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT	–	9	3091
LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT	–	9	3091
LITHIUM ION BATTERIES (including lithium ion polymer batteries)	-	9	3480
LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT or LITHIUM ION BATTERIES PACKED WITH EQUIPMENT (including lithium ion polymer batteries)	-	9	3481
LITHIUM BOROHYDRIDE	–	4.3	1413
Lithium Dispersions, *see*	–	4.3	1391
LITHIUM FERROSILICON	–	4.3	2830
LITHIUM HYDRIDE	–	4.3	1414

LITHIUM HYDRIDE, FUSED SOLID	–	4.3	2805
LITHIUM HYDROXIDE	–	8	2680
Lithium Hydroxide, Solid, *see*	–	8	2680
LITHIUM HYDROXIDE SOLUTION	–	8	2679
LITHIUM HYPOCHLORITE, DRY	–	5.1	1471
LITHIUM HYPOCHLORITE MIXTURE, DRY with more than 39% available chlorine (8.8% available oxygen)	–	5.1	1471
Lithium in Cartouches, *see*	–	4.3	1415
LITHIUM NITRATE	–	5.1	2722
LITHIUM NITRIDE	–	4.3	2806
LITHIUM PEROXIDE	–	5.1	1472
Lithium Silicide, *see*	–	4.3	1417
LITHIUM SILICON	–	4.3	1417
LNG, *see*	–	2.1	1972
LONDON PURPLE	P	6.1	1621
LPG, *see*	-	2.1	1075
Lye, *see*	–	8	1823
M86 Fuel, *see*	–	3	3165
MAGNESIUM	–	4.1	1869
Magnesium Alloys, *see*	–	4.3	1393
MAGNESIUM ALLOYS POWDER	–	4.3	1418
MAGNESIUM ALLOYS with more than 50% magnesium in pellets, turnings or ribbons	–	4.1	1869
MAGNESIUM ALUMINIUM PHOSPHIDE	–	4.3	1419
Magnesium Amalgams, Liquid, *see*	–	4.3	1392
Magnesium Amalgams, Solid, *see*	-	4.3	3402
MAGNESIUM ARSENATE	P	6.1	1622
Magnesium Bisulphite Solution, *see*	–	8	2693
MAGNESIUM BROMATE	–	5.1	1473
MAGNESIUM CHLORATE	–	5.1	2723
Magnesium Chloride and Chlorate Mixture, *see*	-	5.1	1459
MAGNESIUM DIAMIDE	–	4.2	2004
Magnesium Dispersions, *see*	–	4.3	1391
MAGNESIUM FLUOROSILICATE	–	6.1	2853
MAGNESIUM GRANULES, COATED particle size not less than 149 microns	–	4.3	2950
Magnesium Hexafluorosilicate, *see*	–	6.1	2853
MAGNESIUM HYDRIDE	–	4.3	2010
MAGNESIUM NITRATE	–	5.1	1474
MAGNESIUM PERCHLORATE	–	5.1	1475
MAGNESIUM PEROXIDE	–	5.1	1476
MAGNESIUM PHOSPHIDE	–	4.3	2011
MAGNESIUM POWDER	–	4.3	1418
Magnesium Scrap, *see*	–	4.1	1869
MAGNESIUM SILICIDE	–	4.3	2624
Magnesium Silicofluoride, *see*	–	6.1	2853
Magnesium Silicon, *see*	–	4.3	2624

MAGNETIZED MATERIAL	-	9	2807
Malathion, *see*	P	9	3082
MALEIC ANHYDRIDE	–	8	2215
MALEIC ANHYDRIDE, MOLTEN	–	8	2215
Malonodinitrile, *see*	–	6.1	2647
MALONONITRILE	–	6.1	2647
Mancozeb (ISO), *see*	P	9	3077
MANEB	P	4.2	2210
MANEB PREPARATION, STABILIZED against self-heating	P	4.3	2968
MANEB PREPARATION with not less than 60% maneb	P	4.2	2210
MANEB, STABILIZED	P	4.3	2968
Manganese Ethylene-1,2-bis-dithiocarbamate, *see*	P	4.2	2210
Manganese Ethylene-bis-dithiocarbamate, *see*	P	4.2	2210
Manganese Ethylene-1,2-bis-dithiocarbamate, Stabilized, *see*	P	4.3	2968
Manganese Ethylene-bis-dithiocarbamate, Stabilized, *see*	P	4.3	2968
MANGANESE NITRATE	–	5.1	2724
Manganese (III) Nitrate, *see*	–	5.1	2724
MANGANESE RESINATE	–	4.1	1330
Manganous Nitrate, *see*	–	5.1	2724
MANNITOL HEXANITRATE, WETTED with not less than 40% water, or mixture of alcohol and water, by mass	–	1.1D	0133
MATCHES, “STRIKE ANYWHERE”	–	4.1	1331
MATCHES, FUSEE	–	4.1	2254
MATCHES, SAFETY (book, card or strike on box)	–	4.1	1944
MATCHES, WAX ‘VESTA’	–	4.1	1945
Meal, Oily, *see*	–	4.2	1386
Mecarbam, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
MEDICAL WASTE, N.O.S.	–	6.2	3291
MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S.	-	3	3248
MEDICINE, LIQUID, TOXIC, N.O.S.	-	6.1	1851
MEDICINE, SOLID, TOXIC, N.O.S.	-	6.1	3249
Medinoterb, *see* SUBSTITUTED NITROPHENOL PESTICIDE	–	–	–
p-Menthyl Hydroperoxide (concentration > 72–100%), *see*	–	5.2	3105
-Menthyl Hydroperoxide (concentration ≤ 72%, with diluent Type A), *see*	–	5.2	3109
Mephosfolan, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
MERCAPTAN MIXTURE, LIQUID, FLAMMABLE, N.O.S.	-	3	3336
MERCAPTAN MIXTURE, LIQUID, FLAMMABLE, TOXIC, N.O.S.	-	3	1228
MERCAPTAN MIXTURE, LIQUID, TOXIC, FLAMMABLE, N.O.S.	-	6.1	3071
MERCAPTANS, LIQUID, FLAMMABLE, N.O.S.	-	3	3336
MERCAPTANS, LIQUID, FLAMMABLE, TOXIC, N.O.S.	-	3	1228
MERCAPTANS, LIQUID, TOXIC, FLAMMABLE, N.O.S.	-	6.1	3071
Mercaptoacetic Acid, *see*	–	8	1940
Mercaptodimethur, *see* CARBAMATE PESTICIDE	P	–	–
2-Mercaptoethanol, *see*	–	6.1	2966
2-Mercaptopropionic Acid, *see*	–	6.1	2936
5-MERCAPTOTETRAZOL-1-ACETIC ACID	–	1.4C	0448

Mercuric Acetate, *see*	pp P	6.1	1629
Mercuric Ammonium Chloride, *see*	pp P	6.1	1630
MERCURIC ARSENATE	pp P	6.1	1623
Mercuric Benzoate, *see*	pp P	6.1	1631
Mercuric Bisulphate, *see*	pp P	6.1	1645
Mercuric Bromide, *see*	pp P	6.1	1634
MERCURIC CHLORIDE	pp P	6.1	1624
Mercuric Cyanide, *see*	pp P	6.1	1636
Mercuric Gluconate, *see*	pp P	6.1	1637
Mercuric Iodide, *see*	P	6.1	1638
MERCURIC NITRATE	pp P	6.1	1625
Mercuric Oleate, *see*	pp P	6.1	1640
Mercuric Oxide, *see*	pp P	6.1	1641
Mercuric Oxycyanide, Desensitized, *see*	pp P	6.1	1642
MERCURIC POTASSIUM CYANIDE	pp P	6.1	1626
Mercuric Sulphate, *see*	pp P	6.1	1645
Mercuric Thiocyanate, *see*	pp P	6.1	1646
Mercurol, *see*	pp P	6.1	1639
Mercurous Acetate, *see*	pp P	6.1	1629
Mercurous Bisulphate, *see*	pp P	6.1	1645
Mercurous Bromide, *see*	pp P	6.1	1634
Mercurous Chloride, *see*	pp P	9	3077
MERCUROUS NITRATE	pp P	6.1	1627
Mercurous Salicylate, *see*	pp P	6.1	1644
Mercurous Sulphate, *see*	pp P	6.1	1645
MERCURY	–	8	2809
MERCURY ACETATE	pp P	6.1	1629
MERCURY AMMONIUM CHLORIDE	pp	6.1	1630

	P		
MERCURY BASED PESTICIDE, LIQUID, FLAMMABLE, TOXIC flashpoint less than 23°C	PP P	3	2778
MERCURY BASED PESTICIDE, LIQUID, TOXIC	PP P	6.1	3012
MERCURY BASED PESTICIDE, LIQUID, TOXIC, FLAMMABLE flashpoint not less than 23°C	PP P	6.1	3011
MERCURY BASED PESTICIDE, SOLID, TOXIC	PP P	6.1	2777
MERCURY BENZOATE	PP P	6.1	1631
Mercury Bichloride, *see*	PP P	6.1	1624
Mercury Bisulphate, *see*	PP P	6.1	1645
MERCURY BROMIDES	PP P	6.1	1634
MERCURY COMPOUND, LIQUID, N.O.S.	PP P	6.1	2024
MERCURY COMPOUND, SOLID, N.O.S.	PP P	6.1	2025
Mercury(II) (mercuric) Compounds or Mercury(I) (mercurous) Compounds, *see* MERCURY BASED PESTICIDE	PP P	–	–
MERCURY CYANIDE	PP P	6.1	1636
MERCURY FULMINATE, WETTED with not less than 20% water or mixture of alcohol and water, by mass	–	1.1A	0135
MERCURY GLUCONATE	PP P	6.1	1637
MERCURY IODIDE	P	6.1	1638
MERCURY NUCLEATE	PP P	6.1	1639
MERCURY OLEATE	PP P	6.1	1640
MERCURY OXIDE	PP P	6.1	1641
MERCURY OXYCYANIDE, DESENSITIZED	PP P	6.1	1642
MERCURY OXYCYANIDE pure **(transport prohibited)**	–	–	–
Mercury Potassium Cyanide, *see*	PP P	6.1	1626
MERCURY POTASSIUM IODIDE	PP P	6.1	1643
MERCURY SALICYLATE	PP P	6.1	1644
MERCURY SULPHATE	PP P	6.1	1645
MERCURY THIOCYANATE	PP P	6.1	1646
Mesitylene, *see*	–	3	2325
MESITYL OXIDE	–	3	1229
Mesyl Chloride, *see*	–	6.1	3246

Metaarsenic Acid, *see*	–	6.1	1554
Metacetone, *see*	–	3	1156
Metal Alkyl Halides, Water-reactive, N.O.S., *see*	-	4.2	3394
Metal Alkyl Hydrides, Water-reactive, N.O.S., *see*	-	4.2	3394
Metal Alkyls, Water-reactive, N.O.S., *see*	-	4.2	3394
Metal Aryl Halides, Water-reactive, N.O.S., *see*	-	4.2	3394
Metal Aryl Hydrides, Water-reactive, N.O.S., *see*	-	4.2	3394
Metal Aryls, Water-reactive, N.O.S., *see*	-	4.2	3394
METAL CARBONYLS, LIQUID, N.O.S.	-	6.1	3281
METAL CARBONYLS, SOLID, N.O.S.	-	6.1	3466
METAL CATALYST, DRY	–	4.2	2881
METAL CATALYST, WETTED with a visible excess of liquid	–	4.2	1378
METALDEHYDE	–	4.1	1332
METAL HYDRIDES, FLAMMABLE, N.O.S.	-	4.1	3182
METAL HYDRIDES, WATER-REACTIVE, N.O.S.	-	4.3	1409
METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S.	-	4.3	3208
METALLIC SUBSTANCE, WATER-REACTIVE, SELF-HEATING, N.O.S.	-	4.3	3209
METAL POWDER, FLAMMABLE, N.O.S.	-	4.1	3089
METAL POWDER, SELF-HEATING, N.O.S.	-	4.2	3189
METAL SALTS OF ORGANIC COMPOUNDS, FLAMMABLE, N.O.S.	-	4.1	3181
Metam-Sodium, *see* THIOCARBAMATE PESTICIDE	P	–	–
Methacraldehyde, Stabilized, *see*	–	3	2396
METHACRYLALDEHYDE, STABILIZED	–	3	2396
3-Methacrylic Acid, Solid, *see*	–	8	2823
3-Methacrylic Acid, Liquid, see	-	8	3472
METHACRYLIC ACID, STABILIZED	–	8	2531
METHACRYLONITRILE, STABILIZED	–	3	3079
METHALLYL ALCOHOL	–	3	2614
Methamidophos, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
Methanal, *see*	–	3	1198
Methanal, *see*	–	8	2209
Methane and Hydrogen, Mixtures, Compressed, *see*	–	2.1	2034
METHANE, COMPRESSED	–	2.1	1971
METHANE, REFRIGERATED LIQUID	–	2.1	1972
METHANESULPHONYL CHLORIDE	–	6.1	3246
Methanethiol, *see*	P	2.3	1064
METHANOL	–	3	1230
Methasulfocarb, *see* CARBAMATE PESTICIDE	–	–	–
Methidathion, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
2-METHLYBUTANAL	–	3	3371
Methomyl, *see* CARBAMATE PESTICIDE	P	–	–
ortho-Methoxyaniline, *see*	–	6.1	2431
Methoxybenzene, *see*	–	3	2222
1-Methoxybutane, *see*	–	3	2350
Methoxyethane, *see*	–	2.1	1039
2-Methoxyethanol, *see*	–	3	1188

2-Methoxyethyl Acetate, *see*	–	3	1189
METHOXYMETHYL ISOCYANATE	–	3	2605
4-Methoxy-4-methyl-2-pentanone, *see*	–	3	2293
4-METHOXY-4-METHYLPENTAN-2-ONE	–	3	2293
Methoxynitrobenzenes, Liquid, *see*	–	6.1	2730
Methoxynitrobenzenes, Solid, *see*	–	6.1	3458
1-Methoxypropane, *see*	–	3	2612
1-METHOXY-2-PROPANOL	–	3	3092
METHYL ACETATE	–	3	1231
Methylacetic Acid, *see*	–	8	1848
METHYLACETYLENE AND PROPADIENE MIXTURE, STABILIZED	–	2.1	1060
beta-Methyl Acrolein, *see*	P	6.1	1143
2-Methylacrolein, Stabilized	–	3	2396
3-Methylacrolein, Stabilized, *see*	P	6.1	1143
METHYL ACRYLATE, STABILIZED	–	3	1919
METHYLAL	–	3	1234
Methyl Alcohol, *see*	–	3	1230
Methyl Allyl Alcohol	–	3	2614
Methylallyl Alcohol, *see*	–	3	2614
METHYLALLYL CHLORIDE	–	3	2554
alpha-Methyl *alpha*-Chloropropionate, *see*	–	3	2933
METHYLAMINE, ANHYDROUS	–	2.1	1061
METHYLAMINE, AQUEOUS SOLUTION	–	3	1235
-(*N*,*N*-Methylaminoethylcarbonyl)-4-(3,4-dimethylphenylsulphonyl)benzenediazonium hydrogen sulphate (concentration 96%), *see*	–	4.1	3236
METHYLAMYL ACETATE	–	3	1233
Methyl Amyl Alcohol, *see*	–	3	2053
Methylamyl Alcohol, *see*	–	3	2053
Methyl *normal*-Amyl Ketone, *see*	–	3	1110
N-METHYLANILINE	–	6.1	2294
Methylated Spirits, *see*	–	3	1986
Methylated Spirits, *see*	–	3	1987
Methylbenzene, *see*	–	3	1294
4-Methylbenzenesulphonylhydrazide (concentration 100%), *see*	–	4.1	3226
Methylbenzol, *see*	–	3	1294
alpha-METHYLBENZYL ALCOHOL, LIQUID	–	6.1	2937
alpha-METHYLBENZYL ALCOHOL, SOLID	–	6.1	3438
Methyl Borate, *see*	–	3	2416
Methyl Bromide and Chloropicrin Mixture, *see*	–	2.3	1581
METHYL BROMIDE AND ETHYLENE DIBROMIDE MIXTURE, LIQUID	P	6.1	1647
METHYL BROMIDE with not more than 2.0% chloropicrin	–	2.3	1062
METHYL BROMOACETATE	–	6.1	2643
2-Methyl-1,3-butadiene, Stabilized, *see*	–	3	1218
2-METHYLBUTANAL	–	3	3371
2-Methylbutane, *see*	–	3	1265
Methylbutanols, *see*	–	3	1105
3-Methyl-2-butanone, *see*	–	3	2397

3-METHYLBUTAN-2-ONE	–	3	2397
2-METHYL-1-BUTENE	–	3	2459
2-METHYL-2-BUTENE	–	3	2460
3-METHYL-1-BUTENE	–	3	2561
2-Methyl Butylacrylate, Stabilized, *see*	–	3	2227
N-METHYLBUTYLAMINE	–	3	2945
METHYL BUTYL ETHER	–	3	2398
METHYL BUTYRATE	–	3	1237
Methyl Carbonate, *see*	–	3	1161
METHYL CHLORIDE	–	2.1	1063
Methyl Chloride and Chloropicrin Mixture, *see*	–	2.3	1582
METHYL CHLORIDE AND METHYLENE CHLORIDE MIXTURE	–	2.1	1912
METHYL CHLOROACETATE	–	6.1	2295
Methylchlorobenzenes, *see*	–	3	2238
Methyl Chlorocarbonate, *see*	–	6.1	1238
Methyl Chloroform, *see*	–	6.1	2831
Methylchloroform, *see*	–	6.1	2831
METHYL CHLOROFORMATE	–	6.1	1238
METHYL CHLOROMETHYL ETHER	–	6.1	1239
METHYL 2-CHLOROPROPIONATE	–	3	2933
METHYLCHLOROSILANE	–	2.3	2534
Methyl Cyanide, *see*	–	3	1648
METHYLCYCLOHEXANE	–	3	2296
METHYLCYCLOHEXANOLS flammable	–	3	2617
Methylcyclohexanone Peroxide(s) (concentration ≤ 67%, with diluent Type B), *see*	–	5.2	3115
METHYLCYCLOHEXANONES	–	3	2297
METHYLCYCLOPENTANE	–	3	2298
METHYL DICHLOROACETATE	–	6.1	2299
METHYLDICHLOROSILANE	–	4.3	1242
Methyldinitrobenzenes, Liquid, *see*	–	6.1	2038
Methyldinitrobenzenes, Molten	–	6.1	1600
Methyldinitrobenzenes, Solid	–	6.1	2038
Methyl Disulphide, *see*	–	3	2381
Methyldithiomethane, *see*	–	3	2381
2,20-Methylenebis-(3,4,6-trichlorophenol), *see*	–	6.1	2875
Methylene Bromide, *see*	–	6.1	2664
Methylene Chloride, *see*	–	6.1	1593
Methylene Chloride and Methyl Chloride Mixture, *see* METHYL CHLORIDE and METHYLENE CHLORIDE MIXTURE	–	–	–
Methylene Chlorobromide, *see*	–	6.1	1887
Methylene Cyanide, *see*	–	6.1	2647
*p,p*0-Methylenedianiline, *see*	P	6.1	2651
Methylene Dibromide, *see*	–	6.1	2664
Methyl Ether, *see*	–	2.1	1033
Methyl Ethyl Carbinol, *see*	–	3	1120
Methyl Ethyl Ether, *see*	–	2.1	1039

METHYL ETHYL KETONE	–	3	1193
Methyl Ethyl Ketone Peroxide(s) (concentration ≤ 40%, with diluent Type A, available oxygen ≤ 8.2%), *see*	–	5.2	3107
Methyl Ethyl Ketone Peroxide(s) (concentration ≤ 45%, with diluent Type A, available oxygen ≤ 10%), *see*	–	5.2	3105
Methyl Ethyl Ketone Peroxide(s) (concentration 452%, with diluent Type A, available oxygen 410% and 410.7%), *see*	–	5.2	3101
2-METHYL-5-ETHYLPYRIDINE	–	6.1	2300
METHYL FLUORIDE	–	2.1	2454
Methylfluorobenzenes (*ortho*-; *meta*-; *para*-), *see*	–	3	2388
METHYL FORMATE	–	3	1243
2-METHYLFURAN	–	3	2301
Methyl Glycol, *see*	–	3	1188
Methyl Glycol Acetate, *see*	–	3	1189
2-Methylheptane, *see*	–	3	1262
2-METHYL-2-HEPTANETHIOL	–	6.1	3023
5-Methyl-2-hexanone, *see*	–	3	2302
5-METHYLHEXAN-2-ONE	–	3	2302
METHYLHYDRAZINE	–	6.1	1244
METHYL IODIDE	–	6.1	2644
Methyl Isobutenyl Ketone, *see*	–	3	1229
METHYL ISOBUTYL CARBINOL	–	3	2053
Methyl Isobutyl Carbinol Acetate, *see*	–	3	1233
METHYL ISOBUTYL KETONE	–	3	1245
Methyl Isobutyl Ketone Peroxide(s) (concentration ≤ 62%), with ≥ 19% by mass methyl isobutyl ketone, and diluent Type A), *see*	–	5.2	3105
METHYL ISOCYANATE	–	6.1	2480
Methyl Isonitrile, *see*	–	6.1	2480
METHYL ISOPROPENYL KETONE, STABILIZED	–	3	1246
Methyl Isopropyl Ketone, *see*	–	3	2397
METHYL ISOTHIOCYANATE	–	6.1	2477
METHYL ISOVALERATE	–	3	2400
METHYLMAGNESIUM BROMIDE IN ETHYL ETHER	–	4.3	1928
METHYL MERCAPTAN	**P**	2.3	1064
Methyl Mercaptopropionaldehyde, *see*	–	6.1	2785
Methylmercaptopropionaldehyde, *see*	–	6.1	2785
METHYL METHACRYLATE MONOMER, STABILIZED	–	3	1247
4-METHYLMORPHOLINE	–	3	2535
N-METHYLMORPHOLINE	–	3	2535
METHYL NITRITE **(transport prohibited)**	–	2.2	2455
Methylnitrophenols, *see*	–	6.1	2446
METHYL ORTHOSILICATE	–	6.1	2606
METHYLPENTADIENES	–	3	2461
2-Methylpentane, *see*	–	3	1208
3-Methylpentane, *see*	–	3	1208
2-METHYLPENTAN-2-OL	–	3	2560

4-Methylpentan-2-ol, *see*	–	3	2053
4-Methyl-2-pentanone, *see*	–	3	1245
4-Methyl-3-penten-2-one, *see*	–	3	1229
3-Methyl-2-penten-4-yn-ol, *see*	–	8	2705
METHYLPHENYLDICHLOROSILANE	–	8	2437
Methyl Phenyl Ether, *see*	–	3	2222
2-Methyl-2-phenylpropane, *see*	–	3	2709
1-METHYLPIPERIDINE	–	3	2399
N-Methylpiperidine, *see*	–	3	2399
2-Methyl-2-propanol	–	3	1120
2-Methylpropanol-1, *see*	–	3	1212
2-Methylpropanoyl Chloride, *see*	–	3	2395
2-Methyl-2-propen-1-ol, *see*	–	3	2614
METHYL PROPIONATE	–	3	1248
2-Methylpropionic Acid, *see*	–	3	2529
Methylpropyl Acrylate, Stabilized, *see*	–	3	2527
Methylpropylbenzenes, *see*	~~PP~~ P	3	2046
METHYL PROPYL ETHER	–	3	2612
2-Methylpropyl Isobutyrate, *see*	–	3	2528
METHYL PROPYL KETONE	–	3	1249
Methylpyridines (2-; 3-; 4-), *see*	–	3	2313
3-Methyl-4-(pyrrolidin-1-yl)benzenediazonium Tetrafluoroborate (concentration 95%), *see*	–	4.1	3234
alpha-Methylstyrene, *see*	–	3	2303
Methylstyrenes, Stabilized, *see*	–	3	2618
Methyl Sulphate, *see*	–	6.1	1595
Methyl Sulphide, *see*	–	3	1164
METHYLTETRAHYDROFURAN	–	3	2536
METHYL TRICHLOROACETATE	–	6.1	2533
METHYLTRICHLOROSILANE	–	3	1250
Methyltrithion, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
alpha-METHYLVALERALDEHYDE	–	3	2367
1-Methylvinyl Acetate, *see*	–	3	2403
Methylvinylbenzenes, Stabilized, *see*	–	3	2618
METHYL VINYL KETONE, STABILIZED	–	6.1	1251
Mevinphos, *see* ORGANOPHOSPHORUS PESTICIDE	~~PP~~ P	–	–
Mexacarbate, *see* CARBAMATE PESTICIDE	P	–	–
M.I.B.C., *see*	–	3	2053
MINES with bursting charge	–	1.1D	0137
MINES with bursting charge	–	1.1F	0136
MINES with bursting charge	–	1.2D	0138
MINES with bursting charge	–	1.2F	0294
Mirex, *see* ORGANOCHLORINE PESTICIDE	P	–	–
Mischmetall, *see*	–	4.1	1333
Missiles, guided, *see* ROCKETS	–	–	–
Mixed Acid, *see*	–	8	1796

Mixed Acid, Spent, *see*	–	8	1826
Mobam, *see* CARBAMATE PESTICIDE	–	–	–
MOLYBDENUM PENTACHLORIDE	–	8	2508
Monobromobenzene, *see*	P	3	2514
Monochloroacetic Acid, Molten, *see*	–	6.1	3250
Monochloroacetic Acid, Solid, *see*	–	6.1	1751
Monochloroacetic Acid Solution, *see*	–	6.1	1750
Monochloroacetone, Stabilized, *see*	P	6.1	1695
Monochlorobenzene, *see*	–	3	1134
Monochlorobenzol, *see*	–	3	1134
Monochlorodifluoromethane, *see*	–	2.2	1018
Monochlorodifluoromethane and Monochloropentafluoroethane mixture with a fixed boiling point containing about 49% monochlorodifluoromethane, *see*	–	2.2	1973
Monochlorodifluoromonobromomethane, *see*	–	2.2	1974
Monochloropentafluoroethane, *see*	–	2.2	1020
Monochlorotetrafluoroethane, *see*	–	2.2	1021
Monochlorotrifluoromethane, *see*	–	2.2	1022
Monocrotophos, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
Monoethanolamine, *see*	–	8	2491
Monoethylamine, *see*	–	2.1	1036
Monoethylamine, Aqueous Solution, *see*	–	3	2270
Monomethylamine, Anhydrous, *see*	–	2.1	1061
Monomethylamine, Aqueous Solution, *see*	–	3	1235
Monomethylaniline, *see*	–	6.1	2294
MONONITROTOLUIDINES	–	6.1	2660
Monopropylamine, *see*	–	3	1277
MORPHOLINE	–	8	2054
MOTOR FUEL ANTI-KNOCK MIXTURE	P	6.1	1649
MOTOR SPIRIT	▼	3	1203
Muriatic Acid, *see*	–	8	1789
Muritan, *see* CARBAMATE PESTICIDE (Promurit)	–	–	–
MUSK XYLENE	–	4.1	2956
Mysorite, *see*	–	9	2212
Nabam, *see* THIOCARBAMATE PESTICIDE	P	–	–
Naled, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
Naphtha, *see*	▼	3	1268
NAPHTHALENE, CRUDE	–	4.1	1334
NAPHTHALENE, MOLTEN	–	4.1	2304
NAPHTHALENE, REFINED	–	4.1	1334
Naphtha, Petroleum, *see*	▼	3	1268
Naphtha, Solvent, *see*	–	3	1268
alpha-NAPHTHYLAMINE	–	6.1	2077
beta-NAPHTHYLAMINE, SOLID	–	6.1	1650
beta-NAPHTHYLAMINE SOLUTION	–	6.1	3411
NAPHTHYLTHIOUREA	–	6.1	1651
1-Naphthylthiourea, *see*	–	6.1	1651
alpha-Naphthylthiourea, *see*	–	6.1	1651

NAPHTHYLUREA	–	6.1	1652
NATURAL GAS, COMPRESSED with high methane content	–	2.1	1971
Natural Gasoline, *see* MOTOR SPIRIT or GASOLINE or PETROL	–	–	–
NATURAL GAS, REFRIGERATED LIQUID with high methane content	–	2.1	1972
Neodymium Nitrate and Praseodymium Nitrate Mixture, *see*	–	5.1	1456
Neohexane, *see*	–	3	1208
NEON, COMPRESSED	–	2.2	1065
NEON, REFRIGERATED LIQUID	–	2.2	1913
Neopentane, *see*	–	2.1	2044
Neothyl, *see*	–	3	2612
NICKEL CARBONYL	PP P	6.1	1259
NICKEL CYANIDE	PP P	6.1	1653
Nickel (II) Cyanide, *see*	PP P	6.1	1653
NICKEL NITRATE	–	5.1	2725
Nickel (II) Nitrate, *see*	–	5.1	2725
NICKEL NITRITE	–	5.1	2726
Nickel (II) Nitrite, *see*	–	5.1	2726
Nickelous Nitrate, *see*	–	5.1	2725
Nickelous Nitrite, *see*	–	5.1	2726
Nickel Tetracarbonyl, *see*	PP P	6.1	1259
NICOTINE	–	6.1	1654
NICOTINE COMPOUND, LIQUID, N.O.S.	–	6.1	3144
NICOTINE COMPOUND, SOLID, N.O.S.	–	6.1	1655
NICOTINE HYDROCHLORIDE, LIQUID	–	6.1	1656
NICOTINE HYDROCHLORIDE, SOLID	–	6.1	3444
NICOTINE HYDROCHLORIDE SOLUTION	–	6.1	1656
NICOTINE PREPARATION, LIQUID, N.O.S.	–	6.1	3144
NICOTINE PREPARATION, SOLID, N.O.S.	–	6.1	1655
NICOTINE SALICYLATE	–	6.1	1657
NICOTINE SULPHATE, SOLID	–	6.1	3445
NICOTINE SULPHATE SOLUTION	–	6.1	1658
NICOTINE TARTRATE	–	6.1	1659
NITRATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.	-	5.1	3218
NITRATES, INORGANIC, N.O.S.	-	5.1	1477
NITRATING ACID MIXTURE, SPENT with more than 50% nitric acid	–	8	1826
NITRATING ACID MIXTURE, SPENT with not more than 50% nitric acid	–	8	1826
NITRATING ACID MIXTURE with more than 50% nitric acid	–	8	1796
NITRATING ACID MIXTURE with not more than 50% nitric acid	–	8	1796
NITRIC ACID other than red fuming, with more than 70% nitric acid	–	8	2031

~~NITRIC ACID other than red fuming, with not more than 70% nitric acid~~	~~–~~	~~8~~	~~2031~~
NITRIC ACID other than red fuming, with at least 65% but with not more than 70% nitric acid	-	8	2031
NITRIC ACID other than red fuming, with less than 65% nitric acid	-	8	2031
NITRIC ACID, RED FUMING	–	8	2032
NITRIC OXIDE AND DINITROGEN TETROXIDE MIXTURE	–	2.3	1975
NITRIC OXIDE AND NITROGEN DIOXIDE MIXTURE	–	2.3	1975
NITRIC OXIDE, COMPRESSED	–	2.3	1660
NITRILES, FLAMMABLE, TOXIC, N.O.S.	~~-~~	3	3273
NITRILES, TOXIC, FLAMMABLE, N.O.S.	~~-~~	6.1	3275
NITRILES, TOXIC, LIQUID, N.O.S.	~~-~~	6.1	3276
NITRILES, TOXIC, SOLID, N.O.S.	~~-~~	6.1	3439
NITRITES, INORGANIC, AQUEOUS SOLUTION, N.O.S.	~~-~~	5.1	3219
Nitrites, inorganic, mixtures with ammonium compounds **(transport prohibited)**	–	–	–
NITRITES, INORGANIC, N.O.S.	~~-~~	5.1	2627
NITROANILINES	–	6.1	1661
NITROANISOLES, LIQUID	–	6.1	2730
NITROANISOLES, SOLID	–	6.1	3458
NITROBENZENE	–	6.1	1662
Nitrobenzene Bromides, Liquid, *see*	–	6.1	2732
Nitrobenzene Bromides, Solid, *see*	–	6.1	3459
NITROBENZENESULPHONIC ACID	–	8	2305
Nitrobenzol, *see*	–	6.1	1662
5-NITROBENZOTRIAZOL	–	1.1D	0385
NITROBENZOTRIFLUORIDES, LIQUID	**P**	6.1	2306
NITROBENZOTRIFLUORIDES, SOLID	**P**	6.1	3431
NITROBROMOBENZENES, LIQUID	–	6.1	2732
NITROBROMOBENZENES, SOLID	–	6.1	3459
Nitrocarbonitrates, *see* EXPLOSIVE, BLASTING, TYPE B	–	–	–
NITROCELLULOSE dry or wetted with less than 25% water (or alcohol), by mass	–	1.1D	0340
NITROCELLULOSE MEMBRANE FILTERS with not more than 12.6% nitrogen, by dry mass	–	4.1	3270
NITROCELLULOSE, PLASTICIZED with not less than 18% plasticizing substance, by mass	–	1.3C	0343
NITROCELLULOSE SOLUTION, FLAMMABLE with not more than 12.6% nitrogen, by dry mass, and not more than 55% nitrocellulose	–	3	2059
NITROCELLULOSE unmodified or plasticized with less than 18% plasticizing substance, by mass	–	1.1D	0341
NITROCELLULOSE, WETTED with not less than 25% alcohol, by mass	–	1.3C	0342
NITROCELLULOSE WITH ALCOHOL (not less than 25% alcohol, by mass, and not more than 12.6% nitrogen, by dry mass)	–	4.1	2556
NITROCELLULOSE with not more than 12.6% nitrogen, by dry mass, MIXTURE WITHOUT PLASTICIZER WITHOUT PIGMENT	~~-~~	4.1	2557
NITROCELLULOSE with not more than 12.6% nitrogen, by dry mass, MIXTURE WITHOUT PLASTICIZER WITH PIGMENT	~~-~~	4.1	2557

NITROCELLULOSE with not more than 12.6% nitrogen, by dry mass, MIXTURE WITH PLASTICIZER WITHOUT PIGMENT	-	4.1	2557
NITROCELLULOSE with not more than 12.6% nitrogen, by dry mass, MIXTURE WITH PLASTICIZER WITH PIGMENT	-	4.1	2557
NITROCELLULOSE WITH WATER (not less than 25% water, by mass)	–	4.1	2555
Nitrochlorobenzenes, *see*	–	6.1	1578
3-NITRO-4-CHLOROBENZOTRIFLUORIDE	P	6.1	2307
Nitrocotton Solution, *see*	–	3	2059
Nitrocotton with alcohol, *see*	–	4.1	2556
Nitrocotton with plasticizing substance, *see*	-	4.1	2557
Nitrocotton with water, *see*	–	4.1	2555
NITROCRESOLS, LIQUID	–	6.1	3434
NITROCRESOLS, SOLID	–	6.1	2446
NITROETHANE	–	3	2842
NITROGEN, COMPRESSED	–	2.2	1066
NITROGEN DIOXIDE	–	2.3	1067
Nitrogen Dioxide and Nitric Oxide Mixtures, *see*	–	2.3	1975
Nitrogen Peroxide, *see*	–	2.3	1067
NITROGEN, REFRIGERATED LIQUID	–	2.2	1977
Nitrogen Sesquioxide, *see*	–	2.3	2421
NITROGEN TRIFLUORIDE	–	2.2	2451
NITROGEN TRIOXIDE	–	2.3	2421
NITROGLYCERIN, DESENSITIZED with not less than 40% non-volatile water-insoluble phlegmatizer, by mass	–	1.1D	0143
NITROGLYCERIN MIXTURE, DESENSITIZED, LIQUID, FLAMMABLE, N.O.S. with not more than 30% nitroglycerin, by mass	-	3	3343
NITROGLYCERIN MIXTURE, DESENSITIZED, LIQUID, N.O.S with not more than 30% nitroglycerin, by mass	-	3	3357
NITROGLYCERIN MIXTURE, DESENSITIZED, SOLID, N.O.S. with more than 2% but not more than 10% nitroglycerin, by mass	-	4.1	3319
NITROGLYCERIN SOLUTION IN ALCOHOL with more than 1% but not more than 10% nitroglycerin	–	1.1D	0144
NITROGLYCERIN SOLUTION IN ALCOHOL with more than 1% but not more than 5% nitroglycerin	–	3	3064
NITROGLYCERIN SOLUTION IN ALCOHOL with not more than 1% nitroglycerin	–	3	1204
NITROGUANIDINE dry or wetted with less than 20% water, by mass	–	1.1D	0282
NITROGUANIDINE, WETTED with not less than 20% water, by mass	–	4.1	1336
NITROHYDROCHLORIC ACID	–	8	1798
NITROMANNITE, WETTED with not less than 40% water, or mixture of alcohol and water, by mass	–	1.1D	0133
NITROMETHANE	–	3	1261
Nitromuriatic Acid, *see*	–	8	1798
NITRONAPHTHALENE	–	4.1	2538
NITROPHENOLS	–	6.1	1663

4-NITROPHENYLHYDRAZINE with not less than 30% water, by mass	–	4.1	3376
NITROPROPANES	–	3	2608
p-NITROSODIMETHYLANILINE	–	4.2	1369
4-Nitrosophenol (concentration 100%), *see*	–	4.1	3236
NITROSTARCH dry or wetted, with less than 20% water, by mass	–	1.1D	0146
NITROSTARCH, WETTED with not less than 20% water, by mass	–	4.1	1337
NITROSYL CHLORIDE	–	2.3	1069
NITROSYLSULPHURIC ACID, LIQUID	–	8	2308
NITROSYLSULPHURIC ACID, SOLID	–	8	3456
NITROTOLUENES, LIQUID	–	6.1	1664
NITROTOLUENES, SOLID	–	6.1	3446
NITROTOLUIDINES (MONO)	–	6.1	2660
NITROTRIAZOLONE	–	1.1D	0490
Nitrotrichloromethane, *see*	–	6.1	1580
NITRO UREA	–	1.1D	0147
Nitrous Ether Solution, *see*	–	3	1194
NITROUS OXIDE	–	2.2	1070
NITROUS OXIDE, REFRIGERATED LIQUID	–	2.2	2201
NITROXYLENES, LIQUID	–	6.1	1665
NITROXYLENES, SOLID	–	6.1	3447
Non-activated Carbon, *see*	–	4.2	1361
Non-activated Charcoal, *see*	–	4.2	1361
NONANES	–	3	1920
Nonylphenol, *see*	P	8	3145
NONYLTRICHLOROSILANE	–	8	1799
Norbormide, *see* PESTICIDE, N.O.S.	–	–	–
2,5-NORBORNADIENE, STABILIZED	–	3	2251
NTO	–	1.1D	0490
OCTADECYLTRICHLOROSILANE	–	8	1800
OCTADIENE	–	3	2309
Octafluoro-2-butene, *see*	–	2.2	2422
OCTAFLUOROBUT-2-ENE	–	2.2	2422
OCTAFLUOROCYCLOBUTANE	–	2.2	1976
OCTAFLUOROPROPANE	–	2.2	2424
Octaldehyde, *see*	–	3	1191
OCTANES	–	3	1262
3-Octanone, *see*	–	3	2271
OCTOGEN, DESENSITIZED	–	1.1D	0484
OCTOGEN, WETTED with not less than 15% water, by mass	–	1.1D	0226
OCTOL dry or wetted with less than 15% water, by mass	–	1.1D	0266
OCTOLITE dry or wetted with less than 15% water, by mass	–	1.1D	0266
OCTONAL	–	1.1D	0496
OCTYL ALDEHYDES	–	3	1191
tert-Octyl Mercaptan, *see*	–	6.1	3023
OCTYLTRICHLOROSILANE	–	8	1801

Oenanthol, *see*	–	3	3056
Oil Cake, *see*	–	4.2	1386
OIL GAS, COMPRESSED	–	2.3	1071
Oleum, *see*	–	8	1831
Oleylamine, *see* **Note 1**	P	–	–
Omethoate, *see* ORGANOPHOSPHORUS PESTICIDE	–	–	–
Organic Peroxide, Liquid, Sample, *see*	–	5.2	3103
Organic Peroxide, Liquid, Sample, temperature controlled, *see*	–	5.2	3113
Organic Peroxide, Solid, Sample, *see*	–	5.2	3104
Organic Peroxide, Solid, Sample, temperature controlled, *see*	–	5.2	3114
ORGANIC PEROXIDE TYPE B, LIQUID	–	5.2	3101
ORGANIC PEROXIDE TYPE B, LIQUID, TEMPERATURE CONTROLLED	–	5.2	3111
ORGANIC PEROXIDE TYPE B, SOLID	–	5.2	3102
ORGANIC PEROXIDE TYPE B, SOLID, TEMPERATURE CONTROLLED	–	5.2	3112
ORGANIC PEROXIDE TYPE C, LIQUID	–	5.2	3103
ORGANIC PEROXIDE TYPE C, LIQUID, TEMPERATURE CONTROLLED	–	5.2	3113
ORGANIC PEROXIDE TYPE C, SOLID	–	5.2	3104
ORGANIC PEROXIDE TYPE C, SOLID, TEMPERATURE CONTROLLED	–	5.2	3114
ORGANIC PEROXIDE TYPE D, LIQUID	–	5.2	3105
ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED	–	5.2	3115
ORGANIC PEROXIDE TYPE D, SOLID	–	5.2	3106
ORGANIC PEROXIDE TYPE D, SOLID, TEMPERATURE CONTROLLED	–	5.2	3116
ORGANIC PEROXIDE TYPE E, LIQUID	–	5.2	3107
ORGANIC PEROXIDE TYPE E, LIQUID, TEMPERATURE CONTROLLED	–	5.2	3117
ORGANIC PEROXIDE TYPE E, SOLID	–	5.2	3108
ORGANIC PEROXIDE TYPE E, SOLID, TEMPERATURE CONTROLLED	–	5.2	3118
ORGANIC PEROXIDE TYPE F, LIQUID	–	5.2	3109
ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED	–	5.2	3119
ORGANIC PEROXIDE TYPE F, SOLID	–	5.2	3110
ORGANIC PEROXIDE TYPE F, SOLID, TEMPERATURE CONTROLLED	–	5.2	3120
ORGANIC PIGMENTS, SELF-HEATING	–	4.2	3313
ORGANOARSENIC COMPOUND, LIQUID, N.O.S.	-	6.1	3280
ORGANOARSENIC COMPOUND, SOLID, N.O.S.	-	6.1	3465
ORGANOCHLORINE PESTICIDE, LIQUID, FLAMMABLE, TOXIC flashpoint less than 23°C	-	3	2762
ORGANOCHLORINE PESTICIDE, LIQUID, TOXIC	-	6.1	2996
ORGANOCHLORINE PESTICIDE, LIQUID, TOXIC, FLAMMABLE flashpoint not less than 23°C	-	6.1	2995
ORGANOCHLORINE PESTICIDE, SOLID, TOXIC	-	6.1	2761
ORGANOMETALLIC COMPOUND, SOLID, TOXIC, N.O.S.	-	6.1	3467
ORGANOMETALLIC COMPOUND, TOXIC, LIQUID, N.O.S.	-	6.1	3282
ORGANOMETALLIC SUBSTANCE, LIQUID, PYROPHORIC	-	4.2	3392
ORGANOMETALLIC SUBSTANCE, LIQUID, PYROPHORIC, WATER-REACTIVE	-	4.2	3394
ORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE	-	4.3	3398
ORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE, FLAMMABLE	-	4.3	3399
ORGANOMETALLIC SUBSTANCE, SOLID, PYROPHORIC	-	4.2	3391

ORGANOMETALLIC SUBSTANCE, SOLID, PYROPHORIC, WATER-REACTIVE	-	4.2	3393
ORGANOMETALLIC SUBSTANCE, SOLID, SELF-HEATING	-	4.2	3400
ORGANOMETALLIC SUBSTANCE, SOLID, WATER-REACTIVE	-	4.3	3395
ORGANOMETALLIC SUBSTANCE, SOLID, WATER-REACTIVE, FLAMMABLE	-	4.3	3396
ORGANOMETALLIC SUBSTANCE, SOLID, WATER-REACTIVE, SELF-HEATING	-	4.3	3397
ORGANOPHOSPHORUS COMPOUND, TOXIC, FLAMMABLE, N.O.S.	-	6.1	3279
ORGANOPHOSPHORUS COMPOUND, TOXIC, LIQUID, N.O.S.	-	6.1	3278
ORGANOPHOSPHORUS COMPOUND, TOXIC, SOLID, N.O.S.	-	6.1	3464
ORGANOPHOSPHORUS PESTICIDE, LIQUID, FLAMMABLE, TOXIC flashpoint less than 23°C	-	3	2784
ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC	-	6.1	3018
ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE flashpoint not less than 23°C	-	6.1	3017
ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC	-	6.1	2783
ORGANOTIN COMPOUND, LIQUID, N.O.S.	PP P	6.1	2788
Organotin Compounds (pesticides), *see* ORGANOTIN PESTICIDE	PP P	–	–
ORGANOTIN COMPOUND, SOLID, N.O.S.	PP P	6.1	3146
ORGANOTIN PESTICIDE, LIQUID, FLAMMABLE, TOXIC flashpoint less than 23°C	PP P	3	2787
ORGANOTIN PESTICIDE, LIQUID, TOXIC	PP P	6.1	3020
ORGANOTIN PESTICIDE, LIQUID, TOXIC, FLAMMABLE flashpoint not less than 23°C	PP P	6.1	3019
ORGANOTIN PESTICIDE, SOLID, TOXIC	PP P	6.1	2786
Orthoarsenic Acid, *see*	–	6.1	1553
Orthophosphoric Acid, Liquid, *see*	–	8	1805
Orthophosphoric Acid, Solid, *see*	–	8	3453
OSMIUM TETROXIDE	PP P	6.1	2471
Oxamyl, *see* PESTICIDE, N.O.S.	P	–	–
OXIDIZING LIQUID, CORROSIVE, N.O.S.	-	5.1	3098
OXIDIZING LIQUID, N.O.S.	-	5.1	3139
OXIDIZING LIQUID, TOXIC, N.O.S.	-	5.1	3099
OXIDIZING SOLID, CORROSIVE, N.O.S.	-	5.1	3085
OXIDIZING SOLID, FLAMMABLE, N.O.S.	-	5.1	3137
OXIDIZING SOLID, N.O.S.	-	5.1	1479
OXIDIZING SOLID, SELF-HEATING, N.O.S.	-	5.1	3100
OXIDIZING SOLID, TOXIC, N.O.S.	-	5.1	3087
OXIDIZING SOLID, WATER-REACTIVE, N.O.S.	-	5.1	3121
Oxirane, *see*	–	2.3	1040
Oxirane with nitrogen up to a total pressure of 1 MPa (10 bar) at 50°C	–	2.3	1040
Oxydemeton-methyl, *see* ORGANOPHOSPHORUS PESTICIDE	–	–	–

Oxydisulfoton, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
OXYGEN, COMPRESSED	–	2.2	1072
OXYGEN DIFLUORIDE, COMPRESSED	–	2.3	2190
Oxygen Fluoride, Compressed, *see*	–	2.3	2190
OXYGEN GENERATOR, CHEMICAL	–	5.1	3356
OXYGEN, REFRIGERATED LIQUID	–	2.2	1073
1-Oxy -4-nitrobenzene, *see*	–	6.1	1662
PAINT (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base)	~~,~~	3	1263
PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)	~~,~~	8	3066
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	3470
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	3469
PAINT RELATED MATERIAL (including paint thinning or reducing compound)	~~,~~	3	1263
PAINT RELATED MATERIAL (including paint thinning or reducing compound)	~~,~~	8	3066
PAPER, UNSATURATED OIL TREATED incompletely dried (including carbon paper)	–	4.2	1379
Para-acetaldehyde, *see*	–	3	1264
~~Paraffins, *see*~~	~~–~~	~~3~~	~~1223~~
PARAFORMALDEHYDE	–	4.1	2213
PARALDEHYDE	–	3	1264
Paraoxon, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
Paraquat, *see* BIPYRIDILIUM PESTICIDE	–	–	–
Parathion, *see* ORGANOPHOSPHORUS PESTICIDE	~~PP~~ P	–	–
Parathion-methyl, *see* ORGANOPHOSPHORUS PESTICIDE	~~PP~~ P	–	–
PCBs, LIQUID, *see*	~~PP~~ P	9	2315
PCBs, SOLID, *see*	~~PP~~ P	9	3432
PENTABORANE	–	4.2	1380
PENTACHLOROETHANE	P	6.1	1669
PENTACHLOROPHENOL	~~PP~~ P	6.1	3155
Pentachlorophenol, *see* ORGANOCHLORINE PESTICIDE	~~PP~~ P	–	–
PENTAERYTHRITE TETRANITRATE, DESENSITIZED with not less than 15% phlegmatizer, by mass	–	1.1D	0150
PENTAERYTHRITE TETRANITRATE (PENTAERYTHRITOL TETRANITRATE; PETN) MIXTURE, DESENSITIZED, SOLID, N.O.S. with more than 10% but not more than 20% PETN, by mass	~~,~~	4.1	3344
PENTAERYTHRITE TETRANITRATE, WETTED	–	1.1D	0150

with not less than 25% water, by mass			
PENTAERYTHRITE TETRANITRATE with not less than 7% wax, by mass	–	1.1D	0411
PENTAERYTHRITOL TETRANITRATE, DESENSITIZED with not less than 15% phlegmatizer, by mass	–	1.1D	0150
PENTAERYTHRITOL TETRANITRATE, WETTED with not less than 25% water, by mass	–	1.1D	0150
PENTAERYTHRITOL TETRANITRATE with not less than 7% wax, by mass	–	1.1D	0411
PENTAFLUOROETHANE	–	2.2	3220
Pentafluoroethoxytrifluoroethylene, *see*	–	2.1	3154
Pentafluoroethyl Trifluorovinyl Ether, *see*	–	2.1	3154
Pentalin, *see*	P	6.1	1669
Pentamethylene, *see*	–	3	1146
PENTAMETHYLHEPTANE	–	3	2286
Pentanals, *see*	–	3	2058
Pentane, *see*	–	3	1265
PENTANE-2,4-DIONE	–	3	2310
2,4-Pentanedione, *see*	–	3	2310
PENTANES, LIQUID	–	3	1265
Pentanethiols, *see*	–	3	1111
PENTANOLS	–	3	1105
Pentanols, *see*	–	3	1105
2-Pentanone, *see*	–	3	1249
3-Pentanone, *see*	–	3	1156
1-PENTENE	–	3	1108
1-PENTOL	–	8	2705
PENTOLITE dry or wetted with less than 15% water, by mass	–	1.1D	0151
Pentylamines, *see*	–	3	1106
n-Pentylbenzene, *see* **Note 1**	P	–	–
Pentyl Butanoates, *see*	–	3	2620
Pentyl Butyrates, *see*	–	3	2620
Pentyl Formates, *see*	–	3	1109
Pentyl Nitrates, *see*	–	3	1112
Pentyl Nitrite, *see*	–	3	1113
PERCHLORATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.	₹	5.1	3211
PERCHLORATES, INORGANIC, N.O.S.	₹	5.1	1481
PERCHLORIC ACID with more than 50% but not more than 72% acid, by mass	–	5.1	1873
PERCHLORIC ACID, with more than 72% acid by mass **(transport prohibited)**	–	–	–
PERCHLORIC ACID with not more than 50% acid, by mass	–	8	1802
Perchlorobenzene, *see*	–	6.1	2729
Perchlorocyclopentadiene, *see*	–	6.1	2646
Perchloroethylene, *see*	P	6.1	1897
PERCHLOROMETHYL MERCAPTAN	P	6.1	1670
PERCHLORYL FLUORIDE	–	2.3	3083
PERFLUORO(ETHYL VINYL ETHER)	–	2.1	3154

PERFLUORO(METHYL VINYL ETHER)	–	2.1	3153
Perfluoroacetyl Chloride, *see*	–	2.3	3057
Perfluoro-2-butene, *see*	–	2.2	2422
Perfluoropropane, *see*	–	2.2	2424
PERFUMERY PRODUCTS with flammable liquid	-	3	1266
PERMANGANATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.	-	5.1	3214
PERMANGANATES, INORGANIC, N.O.S.	-	5.1	1482
PEROXIDES, INORGANIC, N.O.S.	-	5.1	1483
Peroxyacetic Acid and Hydrogen Peroxide Mixture, *see*	–	5.1	3149
Peroxyacetic Acid, Type D (concentration ≤ 43%), Stabilized, *see*	–	5.2	3105
Peroxyacetic Acid, Type E (concentration ≤ 43%), Stabilized, *see*	–	5.2	3107
Peroxyacetic Acid, Type F (concentration ≤ 43%), Stabilized, *see*	–	5.2	3109
Peroxylauric Acid (concentration ≤ 100%), *see*	–	5.2	3118
PERSULPHATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.	-	5.1	3216
PERSULPHATES, INORGANIC, N.O.S.	-	5.1	3215
PESTICIDE, LIQUID, FLAMMABLE, TOXIC, N.O.S. flashpoint less than 23°C	-	3	3021
PESTICIDE, LIQUID, TOXIC, FLAMMABLE, N.O.S. flashpoint not less than 23°C	-	6.1	2903
PESTICIDE, LIQUID, TOXIC, N.O.S.	-	6.1	2902
PESTICIDE, SOLID, TOXIC, N.O.S.	-	6.1	2588
PETN/TNT, *see*	–	1.1D	0151
PETN, DESENSITIZED with not less than 15% phlegmatizer, by mass	–	1.1D	0150
PETN, WETTED with not less than 25% water, by mass	–	1.1D	0150
PETN with not less than 7% wax, by mass	–	1.1D	0411
PETROL	-	3	1203
PETROLEUM CRUDE OIL	–	3	1267
PETROLEUM DISTILLATES, N.O.S.	-	3	1268
Petroleum Ether, *see*	-	3	1268
PETROLEUM GASES, LIQUEFIED	-	2.1	1075
Petroleum Naphtha, *see*	-	3	1268
Petroleum Oil, *see*	-	3	1268
PETROLEUM PRODUCTS, N.O.S.	-	3	1268
Petroleum Raffinate, *see*	-	3	1268
Petroleum Spirit, *see* PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S.	–	–	–
PETROL leaded	P	3	1203
PHENACYL BROMIDE	–	6.1	2645
Phenarsazine Chloride, *see*	~~PP~~ P	6.1	1698
PHENETIDINES	–	6.1	2311
Phenkapton, *see* ORGANOPHOSPHORUS PESTICIDE	–	–	–
PHENOLATES, LIQUID	-	8	2904
PHENOLATES, SOLID	-	8	2905
PHENOL, MOLTEN	–	6.1	2312

PHENOL, SOLID	–	6.1	1671
PHENOL SOLUTION	–	6.1	2821
PHENOLSULPHONIC ACID, LIQUID	–	8	1803
d-Phenothrin, *see* **Note 1**	P	–	–
PHENOXYACETIC ACID DERIVATIVE PESTICIDE, LIQUID, FLAMMABLE, TOXIC flashpoint less than 23°C	P	3	3346
PHENOXYACETIC ACID DERIVATIVE PESTICIDE, LIQUID, TOXIC	P	6.1	3348
PHENOXYACETIC ACID DERIVATIVE PESTICIDE, LIQUID, TOXIC, FLAMMABLE flashpoint not less than 23°C	P	6.1	3347
PHENOXYACETIC ACID DERIVATIVE PESTICIDE, SOLID, TOXIC	P	6.1	3345
Phenthoate, *see* ORGANOPHOSPHORUS PESTICIDE	PP P	–	–
PHENYLACETONITRILE, LIQUID	–	6.1	2470
PHENYLACETYL CHLORIDE	–	8	2577
Phenylamine, *see*	–	6.1	1547
Phenyl Bromide, *see*	P	3	2514
1-Phenylbutane, *see*	–	3	2709
2-Phenylbutane, *see*	–	3	2709
Phenyl Carbimide, *see*	–	6.1	2487
PHENYLCARBYLAMINE CHLORIDE	–	6.1	1672
Phenylchloroform, *see*	–	8	2226
PHENYL CHLOROFORMATE	–	6.1	2746
Phenyl Chloromethyl Ketone, Liquid or Solid, *see*	–	6.1	1697
Phenyl Cyanide, *see*	–	6.1	2224
Phenylcyclohexane, *see*	P	9	3082
Phenyldichlorophosphine, *see*	–	8	2798
Phenyldichlorophosphine Sulphide, *see*	–	8	2799
PHENYLENEDIAMINES	–	6.1	1673
Phenylethane, *see*	–	3	1175
Phenylethylene, Stabilized, *see*	–	3	2055
Phenyl Fluoride, *see*	–	3	2387
PHENYLHYDRAZINE	–	6.1	2572
Phenyliminophosgene, *see*	–	6.1	1672
PHENYL ISOCYANATE	–	6.1	2487
Phenylisocyanodichloride, *see*	–	6.1	1672
PHENYL MERCAPTAN	–	6.1	2337
PHENYLMERCURIC ACETATE	PP P	6.1	1674
PHENYLMERCURIC COMPOUND, N.O.S.	PP P	6.1	2026
PHENYLMERCURIC HYDROXIDE	PP P	6.1	1894
PHENYLMERCURIC NITRATE	PP P	6.1	1895
Phenyl Methyl Carbinol, Solid or Liquid, *see*	–	6.1	2937
Phenyl Methyl Ether, *see*	–	3	2222
PHENYLPHOSPHORUS DICHLORIDE	–	8	2798
PHENYLPHOSPHORUS THIODICHLORIDE	–	8	2799
2-Phenylpropene, *see*	–	3	2303

PHENYLTRICHLOROSILANE	–	8	1804
Phenyltrifluoromethane, *see*	–	3	2338
Phorate, *see* ORGANOPHOSPHORUS PESTICIDE	PP P	–	–
Phosalone, *see* ORGANOPHOSPHORUS PESTICIDE	PP P	–	–
Phosfolan, *see* ORGANOPHOSPHORUS PESTICIDE	–	–	–
PHOSGENE	–	2.3	1076
Phosmet, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
9-PHOSPHABICYCLONONANES	–	4.2	2940
Phosphamidon, *see* ORGANOPHOSPHORUS PESTICIDE	PP P	–	–
PHOSPHINE	–	2.3	2199
Phosphoretted Hydrogen, *see*	–	2.3	2199
PHOSPHORIC ACID, SOLID	–	8	3453
PHOSPHORIC ACID SOLUTION	–	8	1805
Phosphoric Anhydride, *see*	–	8	1807
Phosphoric Chloride, *see*	–	8	1806
Phosphoric Pentachloride, *see*	–	8	1806
Phosphoric Perchloride, *see*	–	8	1806
PHOSPHOROUS ACID	–	8	2834
PHOSPHORUS, AMORPHOUS	–	4.1	1338
Phosphorus Bromide, *see*	–	8	1808
Phosphorus Chloride, *see*	–	6.1	1809
PHOSPHORUS HEPTASULPHIDE free from yellow or white phosphorus	–	4.1	1339
PHOSPHORUS OXYBROMIDE, MOLTEN	–	8	2576
PHOSPHORUS OXYBROMIDE, SOLID	–	8	1939
PHOSPHORUS OXYCHLORIDE	–	8	1810
PHOSPHORUS PENTABROMIDE	–	8	2691
PHOSPHORUS PENTACHLORIDE	–	8	1806
PHOSPHORUS PENTAFLUORIDE	–	2.3	2198
PHOSPHORUS PENTASULPHIDE free from yellow or white phosphorus	–	4.3	1340
PHOSPHORUS PENTOXIDE	–	8	1807
Phosphorus, Red, *see*	–	4.1	1338
PHOSPHORUS SESQUISULPHIDE free from yellow or white phosphorus	–	4.1	1341
Phosphorus (V) Sulphide, free from from yellow or white phosphorus, *see*	–	4.3	1340
Phosphorus Sulphochloride, *see*	–	8	1837
PHOSPHORUS TRIBROMIDE	–	8	1808
PHOSPHORUS TRICHLORIDE	–	6.1	1809
PHOSPHORUS TRIOXIDE	–	8	2578
PHOSPHORUS TRISULPHIDE free from yellow or white phosphorus	–	4.1	1343
PHOSPHORUS, WHITE, DRY	PP P	4.2	1381
PHOSPHORUS, WHITE, IN SOLUTION	PP P	4.2	1381
PHOSPHORUS, WHITE, MOLTEN	PP P	4.2	2447
PHOSPHORUS, WHITE, UNDER WATER	PP	4.2	1381

	P		
PHOSPHORUS, YELLOW, DRY	PP P	4.2	1381
PHOSPHORUS, YELLOW, IN SOLUTION	PP P	4.2	1381
PHOSPHORUS, YELLOW, UNDER WATER	PP P	4.2	1381
Phosphoryl Bromide, Molten, *see*	–	8	2576
Phosphoryl Bromide, Solid, *see*	–	8	1939
Phosphoryl Chloride, *see*	–	8	1810
PHTHALIC ANHYDRIDE with more than 0.05% of maleic anhydride	–	8	2214
PICOLINES	–	3	2313
Picramic acid, wetted with not less than 20% water, by mass, *see*	–	4.1	3317
PICRAMIDE	–	1.1D	0153
PICRIC ACID dry or wetted with less than 30% water, by mass	–	1.1D	0154
PICRIC ACID, WETTED with not less than 10% water, by mass	–	4.1	3364
Picric Acid, wetted with not less than 30% water, by mass, *see*	–	4.1	1344
PICRITE dry or wetted with less than 20% water, by mass	–	1.1D	0282
PICRITE, WETTED with not less than 20% water, by mass	–	4.1	1336
PICRYL CHLORIDE	–	1.1D	0155
PICRYL CHLORIDE, WETTED with not less than 10% water, by mass	–	4.1	3365
Pinanyl Hydroperoxide (concentration > 56–100%), *see*	–	5.2	3105
Pinanyl Hydroperoxide (concentration ≤ 56%, with diluent Type A), *see*	–	5.2	3109
Pindone (and salts of), *see* PESTICIDE, N.O.S.	P	–	–
alpha-PINENE	–	3	2368
PINE OIL	–	3	1272
PIPERAZINE	–	8	2579
PIPERIDINE	–	8	2401
Pirimicarb, *see* CARBAMATE PESTICIDE	P	–	–
Pirimiphos-ethyl, *see* ORGANOPHOSPHORUS PESTICIDE	PP P	–	–
Pivaloyl Chloride, *see*	–	6.1	2438
Plastic Explosives, *see*	–	1.1D	0084
PLASTICS MOULDING COMPOUND in dough, sheet or extruded rope form, evolving flammable vapour	–	9	3314
PLASTICS, NITROCELLULOSE-BASED, SELF-HEATING, N.O.S.	-	4.2	2006
Platinic Chloride, Solid, *see*	–	8	2507
Polish, *see* PAINT	–	–	–
POLYAMINES, FLAMMABLE, CORROSIVE, N.O.S.	-	3	2733
POLYAMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S.	-	8	2734
POLYAMINES, LIQUID, CORROSIVE, N.O.S.	-	8	2735
POLYAMINES, SOLID, CORROSIVE, N.O.S.	-	8	3259
POLYCHLORINATED BIPHENYLS, LIQUID	PP P	9	2315
POLYCHLORINATED BIPHENYLS, SOLID	PP P	9	3432

POLYESTER RESIN KIT	-	3	3269
Polyether Poly-*tert*-butylperoxycarbonate (concentration ≤ 52%, with diluent Type B), *see*	–	5.2	3107
POLYHALOGENATED BIPHENYLS, LIQUID	PP	9	3151
POLYHALOGENATED BIPHENYLS, SOLID	PP	9	3152
POLYHALOGENATED TERPHENYLS, LIQUID	PP	9	3151
POLYHALOGENATED TERPHENYLS, SOLID	PP	9	3152
POLYMERIC BEADS, EXPANDABLE evolving flammable vapour	–	9	2211
Polystyrene Beads, expandable, *see*	–	9	2211
Polystyrene Beads, expandable, evolving flammable vapour, *see*	–	9	2211
POTASSIUM	–	4.3	2257
Potassium Acid Fluoride, Solid, *see*	–	8	1811
Potassium Acid Fluoride Solution, *see*	–	8	1811
Potassium Alloys, Metal, *see*	–	4.3	1420
Potassium Amalgams, Liquid, *see*	–	4.3	1389
Potassium Amalgams, Solid, *see*	-	4.3	3401
Potassium Amide, *see*	–	4.3	1390
Potassium Antimony Tartrate, *see*	–	6.1	1551
POTASSIUM ARSENATE	–	6.1	1677
POTASSIUM ARSENITE	–	6.1	1678
Potassium Bifluoride, Solid, *see*	–	8	1811
Potassium Bifluoride Solution, *see*	–	8	3421
Potassium Bisulphate, *see*	–	8	2509
Potassium Bisulphite Solution, *see*	–	8	2693
POTASSIUM BOROHYDRIDE	–	4.3	1870
POTASSIUM BROMATE	–	5.1	1484
POTASSIUM CHLORATE	–	5.1	1485
POTASSIUM CHLORATE, AQUEOUS SOLUTION	–	5.1	2427
Potassium Chlorate mixed with mineral oil, *see*	–	1.1D	0083
POTASSIUM CUPROCYANIDE	PP	6.1	1679
POTASSIUM CYANIDE, SOLID	P	6.1	1680
POTASSIUM CYANIDE SOLUTION	P	6.1	3413
Potassium Cyanocuprate(I), *see*	PP	6.1	1679
Potassium Cyanomercurate, *see*	PP	6.1	1626
Potassium Dicyanocuprate(I), *see*	–	6.1	1679
Potassium Dihydrogen Arsenate, *see*	–	6.1	1677
Potassium Dispersions, *see*	–	4.3	1391
POTASSIUM DITHIONITE	–	4.2	1929
POTASSIUM FLUORIDE, SOLID	–	6.1	1812
POTASSIUM FLUORIDE SOLUTION	–	6.1	3422
POTASSIUM FLUOROACETATE	–	6.1	2628

POTASSIUM FLUOROSILICATE	–	6.1	2655
Potassium Hexafluorosilicate, *see*	–	6.1	2655
Potassium Hydrate, *see*	–	8	1814
POTASSIUM HYDROGEN DIFLUORIDE, SOLID	–	8	1811
POTASSIUM HYDROGEN DIFLUORIDE SOLUTION	–	8	3421
Potassium Hydrogen Fluoride, Solid, *see*	–	8	1811
Potassium Hydrogen Fluoride Solution, *see*	–	8	3421
POTASSIUM HYDROGEN SULPHATE	–	8	2509
POTASSIUM HYDROSULPHITE	–	4.2	1929
Potassium Hydroxide, Liquid, *see*	–	8	1814
POTASSIUM HYDROXIDE, SOLID	–	8	1813
POTASSIUM HYDROXIDE SOLUTION	–	8	1814
Potassium Hypochlorite Solution, *see*	–	8	1791
Potassium Mercuric Iodide, *see*	~~PP~~ P	6.1	1643
POTASSIUM METAL ALLOYS, LIQUID	–	4.3	1420
POTASSIUM METAL ALLOYS, SOLID	–	4.3	3403
POTASSIUM METAVANADATE	–	6.1	2864
POTASSIUM MONOXIDE	–	8	2033
POTASSIUM NITRATE	–	5.1	1486
Potassium Nitrate and Sodium Nitrate Mixture, *see*	–	5.1	1499
POTASSIUM NITRATE AND SODIUM NITRITE MIXTURE	–	5.1	1487
POTASSIUM NITRITE	–	5.1	1488
Potassium Oxide, *see*	–	8	2033
POTASSIUM PERCHLORATE	–	5.1	1489
POTASSIUM PERMANGANATE	–	5.1	1490
POTASSIUM PEROXIDE	–	5.1	1491
POTASSIUM PERSULPHATE	–	5.1	1492
POTASSIUM PHOSPHIDE	–	4.3	2012
Potassium Silicofluoride, *see*	–	6.1	2655
POTASSIUM SODIUM ALLOYS, LIQUID	–	4.3	1422
POTASSIUM SODIUM ALLOYS, SOLID	–	4.3	3404
POTASSIUM SULPHIDE, ANHYDROUS	–	4.2	1382
POTASSIUM SULPHIDE, HYDRATED with not less than 30% water of crystallization	–	8	1847
POTASSIUM SULPHIDE with less than 30% water of crystallization	–	4.2	1382
POTASSIUM SUPEROXIDE	–	5.1	2466
Potassium Tetracyanomercurate(II), *see*	–	6.1	1626
Potassium Vanadate, *see*	–	6.1	2864
POWDER CAKE, WETTED with not less than 17% alcohol, by mass	–	1.1C	0433
POWDER CAKE, WETTED with not less than 25% water, by mass	–	1.3C	0159
POWDER PASTE, WETTED with not less than 17% alcohol, by mass	–	1.1C	0433
POWDER PASTE, WETTED with not less than 25% water, by mass	–	1.3C	0159
POWDER, SMOKELESS	–	1.1C	0160

POWDER, SMOKELESS	–	1.3C	0161
Power Devices, Explosive, *see* CARTRIDGES, POWER DEVICE	–	–	–
Praseodymium Nitrate and Neodymium Nitrate Mixture, *see*	–	5.1	1465
PRIMERS, CAP TYPE	–	1.1B	0377
PRIMERS, CAP TYPE	–	1.4B	0378
PRIMERS, CAP TYPE	–	1.4S	0044
Primers, Small Arms, *see*	–	1.4S	0044
PRIMERS, TUBULAR	–	1.3G	0319
PRIMERS, TUBULAR	–	1.4G	0320
PRIMERS, TUBULAR	–	1.4S	0376
PRINTING INK flammable	–	3	1210
PRINTING INK RELATED MATERIAL (including printing ink thinning or reducing compound), flammable	–	3	1210
Projectiles, Illuminating, *see* AMMUNITION, ILLUMINATING	–	–	–
PROJECTILES inert, with tracer	–	1.3G	0424
PROJECTILES inert, with tracer	–	1.4G	0425
PROJECTILES inert, with tracer	–	1.4S	0345
PROJECTILES with burster or expelling charge	–	1.2D	0346
PROJECTILES with burster or expelling charge	–	1.2F	0426
PROJECTILES with burster or expelling charge	–	1.2G	0434
PROJECTILES with burster or expelling charge	–	1.4D	0347
PROJECTILES with burster or expelling charge	–	1.4F	0427
PROJECTILES with burster or expelling charge	–	1.4G	0435
PROJECTILES with bursting charge	–	1.1D	0168
PROJECTILES with bursting charge	–	1.1F	0167
PROJECTILES with bursting charge	–	1.2D	0169
PROJECTILES with bursting charge	–	1.2F	0324
PROJECTILES with bursting charge	–	1.4D	0344
Promecarb, *see* CARBAMATE PESTICIDE	**P**	–	–
Promurit, *see* CARBAMATE PESTICIDE	–	–	–
Propachlor, *see* **Note 1**	**P**	–	–
Propadiene and Methylacetylene Mixture, Stabilized, *see*	–	2.1	1060
PROPADIENE, STABILIZED	–	2.1	2200
PROPANE	–	2.1	1978
PROPANETHIOLS	–	3	2402
PROPANOL	–	3	1274
1-Propanol, *see*	–	3	1274
2-Propanol, *see*	–	3	1219
2-Propanone, *see*	–	3	1090
2-Propanone Solutions, *see*	–	3	1090
Propanoyl Chloride, *see*	–	3	1815
Propaphos, *see* ORGANOPHOSPHORUS PESTICIDE	**P**	–	–
Propargyl Bromide, *see*	–	3	2345
PROPELLANT, LIQUID	–	1.1C	0497
PROPELLANT, LIQUID	–	1.3C	0495
PROPELLANT, SOLID	–	1.1C	0498
PROPELLANT, SOLID	–	1.3C	0499

PROPELLANT, SOLID	–	1.4C	0501
Propellants, single, double or triple base, *see* POWDER, SMOKELESS	–	–	–
Propenal, Stabilized, *see*	P	6.1	1092
Propene, *see*	–	2.1	1077
Propenenitrile, Stabilized, *see*	–	3	1093
2-Propenoic Acid Dimethylaminoethyl Ester, *see*	–	6.1	3302
Propenoic Acid, Stabilized, *see*	–	8	2218
3-(2-Propenoxy)propene, *see*	–	3	2360
Propenyl Alcohol, *see*	–	6.1	1098
2-Propenylamine, *see*	–	6.1	2334
alpha-Propenyldichlorohydrin, *see*	–	6.1	2750
PROPIONALDEHYDE	–	3	1275
PROPIONIC ACID with not less than 10% and less than 90% acid by mass	–	8	1848
PROPIONIC ACID with not less than 90% acid by mass	–	8	3463
Propionic Aldehyde, *see*	–	3	1275
PROPIONIC ANHYDRIDE	–	8	2496
PROPIONITRILE	–	3	2404
PROPIONYL CHLORIDE	–	3	1815
Propoxur, *see* CARBAMATE PESTICIDE	P	–	–
1-Propoxypropane, *see*	–	3	2384
PROPYL ACETATE	–	3	1276
PROPYL ALCOHOL, NORMAL	–	3	1274
Propyl Aldehyde, *see*	–	3	1275
PROPYLAMINE	–	3	1277
PROPYLBENZENE	–	3	2364
Propyl Bromides, *see*	–	3	2344
Propyl Chloride, *see*	–	3	1278
Propyl Chlorocarbonate, *see*	–	6.1	2740
PROPYL CHLOROFORMATE	–	6.1	2740
Propyl Cyanide, *see*	–	3	2411
PROPYLENE	–	2.1	1077
Propylene, Acetylene and Ethylene Mixture, refrigerated Liquid, *see*	–	2.1	3138
PROPYLENE CHLOROHYDRIN	–	6.1	2611
1,2-PROPYLENEDIAMINE	–	8	2258
Propylene Dichloride, *see*	–	3	1279
PROPYLENEIMINE, STABILIZED	–	3	1921
PROPYLENE OXIDE	–	3	1280
PROPYLENE TETRAMER	–	3	2850
Propylene Trimer, *see*	–	3	2057
Propyl Ether, *see*	–	3	2384
PROPYL FORMATES	–	3	1281
Propylformic Acid, *see*	–	8	2820
Propylidene Dichloride, *see*	–	3	1993
Propyl Iodides, *see*	–	3	2392
PROPYL ISOCYANATE	–	6.1	2482
Propyl Mercaptan, *see*	–	3	2402

Propyl Methanoates, *see*	–	3	1281
PROPYL NITRATE	–	3	1865
PROPYLTRICHLOROSILANE	–	8	1816
Prothoate, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
Prussic Acid, Anhydrous, Stabilized, containing less than 3% water, *see*	P	6.1	1051
Prussic Acid, Anhydrous, Stabilized, containing less than 3% water and absorbed in a porous inert material, *see*	P	6.1	1614
Prussic Acid, Aqueous Solution, *see*	P	6.1	1613
Prussic Acid, Aqueous Solution with not more than 20% Hydrogen Cyanide, *see*	P	6.1	1613
Pyrazine Hexahydride, Solid, *see*	–	8	2579
Pyrazophos, *see* ORGANOPHOSPHORUS PESTICIDE	~~PP~~ P	–	–
Pyrazoxon, *see* ORGANOPHOSPHORUS PESTICIDE	–	–	–
PYRETHROID PESTICIDE, LIQUID, FLAMMABLE, TOXIC flashpoint less than 23°C	~~P~~	3	3350
PYRETHROID PESTICIDE, LIQUID, TOXIC	~~P~~	6.1	3352
PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE flashpoint not less than 23°C	~~P~~	6.1	3351
PYRETHROID PESTICIDE, SOLID, TOXIC	~~P~~	6.1	3349
PYRIDINE	–	3	1282
PYROPHORIC ALLOY, N.O.S.	~~P~~	4.2	1383
Pyrophoric Articles, *see*	–	1.2L	0380
PYROPHORIC LIQUID, INORGANIC, N.O.S.	~~P~~	4.2	3194
PYROPHORIC LIQUID, ORGANIC, N.O.S.	~~P~~	4.2	2845
PYROPHORIC METAL, N.O.S.	~~P~~	4.2	1383
PYROPHORIC SOLID, INORGANIC, N.O.S.	~~P~~	4.2	3200
PYROPHORIC SOLID, ORGANIC, N.O.S.	~~P~~	4.2	2846
Pyrosulphuric Acid, *see*	–	8	1831
PYROSULPHURYL CHLORIDE	–	8	1817
Pyroxylin Solution, *see*	–	3	2059
PYRROLIDINE	–	3	1922
Quinalphos, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
QUINOLINE	–	6.1	2656
Quinone, *see*	–	6.1	2587
Quizalofop, *see* **Note 1**	~~PP~~ P	–	–
Quizalofop-P-ethyl, *see* **Note 1**	~~PP~~ P	–	–
Racumin, *see* COUMARIN DERIVATIVE PESTICIDE (Coumatetralyl)	–	–	–
Radioactive Isotopes (A_1 and A_2 values for), *see* 2.7.7.2	–	–	–
RADIOACTIVE MATERIAL, EXCEPTED PACKAGE – ARTICLES	–	7	2911
RADIOACTIVE MATERIAL, EXCEPTED PACKAGE – ARTICLES MANUFACTURED FROM DEPLETED URANIUM	–	7	2909
RADIOACTIVE MATERIAL, EXCEPTED PACKAGE – ARTICLES MANUFACTURED FROM NATURAL THORIUM	–	7	2909
RADIOACTIVE MATERIAL, EXCEPTED PACKAGE – ARTICLES MANUFACTURED FROM NATURAL URANIUM	–	7	2909
RADIOACTIVE MATERIAL, EXCEPTED PACKAGE –	–	7	2908

EMPTY PACKAGING			
RADIOACTIVE MATERIAL, EXCEPTED PACKAGE – INSTRUMENTS	–	7	2911
RADIOACTIVE MATERIAL, EXCEPTED PACKAGE – LIMITED QUANTITY OF MATERIAL	–	7	2910
RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-I), non fissile or fissile – excepted	–	7	2912
RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-II), FISSILE	–	7	3324
RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-II), non fissile or fissile – excepted	–	7	3321
RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY, (LSA-III), FISSILE	–	7	3325
RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-III), non fissile or fissile – excepted	–	7	3322
RADIOACTIVE MATERIAL, SURFACE CONTAMINATED OBJECTS (SCO-I or SCO-II), FISSILE	–	7	3326
RADIOACTIVE MATERIAL, SURFACE CONTAMINATED OBJECTS (SCO-I or SCO-II), non fissile or fissile – excepted	–	7	2913
RADIOACTIVE MATERIAL, TRANSPORTED UNDER SPECIAL ARRANGEMENT, FISSILE	–	7	3331
RADIOACTIVE MATERIAL, TRANSPORTED UNDER SPECIAL ARRANGEMENT non fissile or fissile – excepted	–	7	2919
RADIOACTIVE MATERIAL, TYPE A PACKAGE, FISSILE, non-special form	–	7	3327
RADIOACTIVE MATERIAL, TYPE A PACKAGE, non-special form, non fissile or fissile – excepted	–	7	2915
RADIOACTIVE MATERIAL, TYPE A PACKAGE, SPECIAL FORM, FISSILE	–	7	3333
RADIOACTIVE MATERIAL, TYPE A PACKAGE, SPECIAL FORM, non fissile or fissile – excepted	–	7	3332
RADIOACTIVE MATERIAL, TYPE B(M) PACKAGE, FISSILE	–	7	3329
RADIOACTIVE MATERIAL, TYPE B(M) PACKAGE, non fissile or fissile – excepted	–	7	2917
RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE	–	7	3328
RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, non fissile or fissile – excepted	–	7	2916
RADIOACTIVE MATERIAL, TYPE C PACKAGE, FISSILE	–	7	3330
RADIOACTIVE MATERIAL, TYPE C PACKAGE, non fissile or fissile – excepted	–	7	3323
RADIOACTIVE MATERIAL, URANIUM HEXAFLUORIDE, FISSILE	–	7	2977
RADIOACTIVE MATERIAL, URANIUM HEXAFLUORIDE, non fissile or fissile – excepted	–	7	2978
Radionuclides (A_1 and A_2 values for), *see* 2.7.7.2	–	–	–
RAGS, OILY	–	4.2	1856
Railway Fusees, *see* SIGNAL DEVICES, HAND	–	–	–
RDX/TNT, *see*	–	1.1D	0118
RDX/TNT/aluminium, *see*	–	1.1D	0393
RDX AND HMX MIXTURE, DESENSITIZED with not less than 10% phlegmatizer, by mass	–	1.1D	0391
RDX AND HMX MIXTURE, WETTED with not less than 15% water, by mass	–	1.1D	0391
RDX AND OCTOGEN MIXTURE, DESENSITIZED with not less than 10% phlegmatizer, by mass	–	1.1D	0391

RDX AND OCTOGEN MIXTURE, WETTED with not less than 15% water, by mass	–	1.1D	0391
RDX, DESENSITIZED	–	1.1D	0483
RDX, WETTED with not less than 15% water, by mass	–	1.1D	0072
RECEPTACLES, SMALL, CONTAINING GAS without a release device, non refillable	–	2	2037
Red Phosphorus, *see*	–	4.1	1338
REFRIGERANT GAS, N.O.S.	–	2.2	1078
REFRIGERANT GAS R 1132a	–	2.1	1959
REFRIGERANT GAS R 114	–	2.2	1958
REFRIGERANT GAS R 115	–	2.2	1020
REFRIGERANT GAS R 116	–	2.2	2193
REFRIGERANT GAS R 12	–	2.2	1028
REFRIGERANT GAS R 1216	–	2.2	1858
REFRIGERANT GAS R 124	–	2.2	1021
REFRIGERANT GAS R 125	–	2.2	3220
REFRIGERANT GAS R 12B1	–	2.2	1974
REFRIGERANT GAS R 13	–	2.2	1022
REFRIGERANT GAS R 1318	–	2.2	2422
REFRIGERANT GAS R 133a	–	2.2	1983
REFRIGERANT GAS R 134a	–	2.2	3159
REFRIGERANT GAS R 13B1	–	2.2	1009
REFRIGERANT GAS R 14	–	2.2	1982
REFRIGERANT GAS R 142b	–	2.1	2517
REFRIGERANT GAS R 143a	–	2.1	2035
REFRIGERANT GAS R 152a	–	2.1	1030
REFRIGERANT GAS R 161	–	2.1	2453
REFRIGERANT GAS R 21	–	2.2	1029
REFRIGERANT GAS R 218	–	2.2	2424
REFRIGERANT GAS R 22	–	2.2	1018
REFRIGERANT GAS R 227	–	2.2	3296
REFRIGERANT GAS R 23	–	2.2	1984
REFRIGERANT GAS R 32	–	2.1	3252
REFRIGERANT GAS R 40	–	2.1	1063
REFRIGERANT GAS R 404A	–	2.2	3337
REFRIGERANT GAS R 407A	–	2.2	3338
REFRIGERANT GAS R 407B	–	2.2	3339
REFRIGERANT GAS R 407C	–	2.2	3340
REFRIGERANT GAS R 41	–	2.1	2454
REFRIGERANT GAS R 500	–	2.2	2602
REFRIGERANT GAS R 502	–	2.2	1973
REFRIGERANT GAS R 503	–	2.2	2599
REFRIGERANT GAS RC 318	–	2.2	1976
REFRIGERATING MACHINES containing flammable, non-toxic, liquefied gas	–	2.1	3358
REFRIGERATING MACHINES containing non-flammable, non-toxic gases or ammonia solution (UN 2672)	–	2.2	2857
REGULATED MEDICAL WASTE, N.O.S.	–	6.2	3291

RELEASE DEVICES, EXPLOSIVE	–	1.4S	0173
RESIN SOLUTION flammable	-	3	1866
Resorcin, *see*	–	6.1	2876
RESORCINOL	–	6.1	2876
RIVETS, EXPLOSIVE	–	1.4S	0174
Road Asphalt, *see*	-	3	1999
ROCKET MOTORS	–	1.1C	0280
ROCKET MOTORS	–	1.2C	0281
ROCKET MOTORS	–	1.3C	0186
ROCKET MOTORS, LIQUID FUELLED	–	1.2J	0395
ROCKET MOTORS, LIQUID FUELLED	–	1.3J	0396
ROCKET MOTORS WITH HYPERGOLIC LIQUIDS with or without expelling charge	–	1.2L	0322
ROCKET MOTORS WITH HYPERGOLIC LIQUIDS with or without expelling charge	–	1.3L	0250
ROCKETS, LINE-THROWING	–	1.2G	0238
ROCKETS, LINE-THROWING	–	1.3G	0240
ROCKETS, LINE-THROWING	–	1.4G	0453
ROCKETS, LIQUID FUELLED with bursting charge	–	1.1J	0397
ROCKETS, LIQUID FUELLED with bursting charge	–	1.2J	0398
ROCKETS with bursting charge	–	1.1E	0181
ROCKETS with bursting charge	–	1.1F	0180
ROCKETS with bursting charge	–	1.2E	0182
ROCKETS with bursting charge	–	1.2F	0295
ROCKETS with expelling charge	–	1.2C	0436
ROCKETS with expelling charge	–	1.3C	0437
ROCKETS with expelling charge	–	1.4C	0438
ROCKETS with inert head	–	1.2C	0502
ROCKETS with inert head	–	1.3C	0183
ROSIN OIL	–	3	1286
Rotenone, *see* PESTICIDE, N.O.S	P	–	–
RUBBER SCRAP powdered or granulated, not exceeding 840 microns and rubber content exceeding 45%	–	4.1	1345
RUBBER SHODDY powdered or granulated, not exceeding 840 microns and rubber content exceeding 45%	–	4.1	1345
RUBBER SOLUTION	-	3	1287
RUBIDIUM	–	4.3	1423
Rubidium Alloy (liquid), *see*	–	4.3	1421
Rubidium Amalgams, Liquid, *see*	–	4.3	1389
Rubidium Amalgams, Solid, *see*	-	4.3	3401
Rubidium Amide, *see*	–	4.3	1390
Rubidium Dispersion, *see*	–	4.3	1391
RUBIDIUM HYDROXIDE, SOLID	–	8	2678
RUBIDIUM HYDROXIDE SOLUTION	–	8	2677
Salithion, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
Saltpetre, *see*	–	5.1	1486
SAMPLES, EXPLOSIVE other than initiating explosive	–	1	0190

Sand Acid, *see*	–	8	1778
Schradan, *see* ORGANOPHOSPHORUS PESTICIDE	–	–	–
SEAT-BELT PRETENSIONERS	–	1.4G	0503
SEAT-BELT PRETENSIONERS	–	9	3268
SEED CAKE, containing vegetable oil (a) mechanically expelled seeds, containing more than 10% of oil or more than 20% of oil and moisture combined	–	4.2	1386
SEED CAKE, containing vegetable oil (b) solvent extractions and expelled seeds, containing not more than 10% of oil and when the amount of moisture is higher than 10%, not more than 20% of oil and moisture combined	–	4.2	1386
SEED CAKE with not more than 1.5% oil and not more than 11% moisture	–	4.2	2217
Seed Expellers, Oily, *see*	–	4.2	1386
SELENATES	÷	6.1	2630
SELENIC ACID	–	8	1905
Seleninyl Chloride, *see*	–	8	2879
SELENITES	÷	6.1	2630
SELENIUM COMPOUND, LIQUID, N.O.S.	÷	6.1	3440
SELENIUM COMPOUND, SOLID, N.O.S.	÷	6.1	3283
SELENIUM DISULPHIDE	–	6.1	2657
SELENIUM HEXAFLUORIDE	–	2.3	2194
Selenium Hydride, *see*	–	2.3	2202
SELENIUM OXYCHLORIDE	–	8	2879
SELF-HEATING LIQUID, CORROSIVE, INORGANIC, N.O.S.	÷	4.2	3188
SELF-HEATING LIQUID, CORROSIVE, ORGANIC, N.O.S.	÷	4.2	3185
SELF-HEATING LIQUID, INORGANIC, N.O.S.	÷	4.2	3186
SELF-HEATING LIQUID, ORGANIC, N.O.S.	÷	4.2	3183
SELF-HEATING LIQUID, TOXIC, INORGANIC, N.O.S.	÷	4.2	3187
SELF-HEATING LIQUID, TOXIC, ORGANIC, N.O.S.	÷	4.2	3184
SELF-HEATING SOLID, CORROSIVE, INORGANIC, N.O.S.	÷	4.2	3192
SELF-HEATING SOLID, CORROSIVE, ORGANIC, N.O.S.	÷	4.2	3126
SELF-HEATING SOLID, INORGANIC, N.O.S.	÷	4.2	3190
SELF-HEATING SOLID, ORGANIC, N.O.S.	÷	4.2	3088
SELF-HEATING SOLID, OXIDIZING, N.O.S.	÷	4.2	3127
SELF-HEATING SOLID, TOXIC, INORGANIC, N.O.S.	÷	4.2	3191
SELF-HEATING SOLID, TOXIC, ORGANIC, N.O.S.	÷	4.2	3128
Self-reactive Liquid, Sample, *see*	–	4.1	3223
Self-reactive Liquid, Sample, temperature controlled, *see*	–	4.1	3233
SELF-REACTIVE LIQUID TYPE B	–	4.1	3221
SELF-REACTIVE LIQUID TYPE B, TEMPERATURE CONTROLLED	–	4.1	3231
SELF-REACTIVE LIQUID TYPE C	–	4.1	3223
SELF-REACTIVE LIQUID TYPE C, TEMPERATURE CONTROLLED	–	4.1	3233
SELF-REACTIVE LIQUID TYPE D	–	4.1	3225
SELF-REACTIVE LIQUID TYPE D, TEMPERATURE CONTROLLED	–	4.1	3235
SELF-REACTIVE LIQUID TYPE E	–	4.1	3227
SELF-REACTIVE LIQUID TYPE E, TEMPERATURE CONTROLLED	–	4.1	3237
SELF-REACTIVE LIQUID TYPE F	–	4.1	3229

SELF-REACTIVE LIQUID TYPE F, TEMPERATURE CONTROLLED	–	4.1	3239
Self-reactive Solid, Sample, *see*	–	4.1	3224
Self-reactive Solid, Sample, temperature controlled, *see*	–	4.1	3234
SELF-REACTIVE SOLID TYPE B	–	4.1	3222
SELF-REACTIVE SOLID TYPE B, TEMPERATURE CONTROLLED	–	4.1	3232
SELF-REACTIVE SOLID TYPE C	–	4.1	3224
SELF-REACTIVE SOLID TYPE C, TEMPERATURE CONTROLLED	–	4.1	3234
SELF-REACTIVE SOLID TYPE D	–	4.1	3226
SELF-REACTIVE SOLID TYPE D, TEMPERATURE CONTROLLED	–	4.1	3236
SELF-REACTIVE SOLID TYPE E	–	4.1	3228
SELF-REACTIVE SOLID TYPE E, TEMPERATURE CONTROLLED	–	4.1	3238
SELF-REACTIVE SOLID TYPE F	–	4.1	3230
SELF-REACTIVE SOLID TYPE F, TEMPERATURE CONTROLLED	–	4.1	3240
SHALE OIL	–	3	1288
Shaped Charges, *see* CHARGES, SHAPED	–	–	–
Shellac Solution, *see* PAINT	–	–	–
SIGNAL DEVICES, HAND	–	1.4G	0191
SIGNAL DEVICES, HAND	–	1.4S	0373
SIGNALS, DISTRESS, ship	–	1.1G	0194
SIGNALS, DISTRESS, ship	–	1.3G	0195
SIGNALS, DISTRESS, ship	-	1.4G	0506
SIGNALS, DISTRESS, ship	-	1.4S	0506
Signals, Distress, Ship, water-activated, *see* CONTRIVANCES, WATER-ACTIVATED	–	–	–
SIGNALS, RAILWAY TRACK, EXPLOSIVE	–	1.1G	0192
SIGNALS, RAILWAY TRACK, EXPLOSIVE	–	1.3G	0492
SIGNALS, RAILWAY TRACK, EXPLOSIVE	–	1.4G	0493
SIGNALS, RAILWAY TRACK, EXPLOSIVE	–	1.4S	0193
SIGNALS, SMOKE	–	1.1G	0196
SIGNALS, SMOKE	–	1.2G	0313
SIGNALS, SMOKE	–	1.3G	0487
SIGNALS, SMOKE	–	1.4G	0197
SIGNALS, SMOKE	-	1.4S	0507
Silafluofen, *see* **Note 1**	~~PP~~ P	–	–
SILANE	–	2.1	2203
Silicofluoric Acid, *see*	–	8	1778
Silicofluorides, N.O.S., *see*	~~-~~	6.1	2856
Silicon Chloride, *see*	–	8	1818
SILICON POWDER, AMORPHOUS	–	4.1	1346
SILICON TETRACHLORIDE	–	8	1818
SILICON TETRAFLUORIDE	–	2.3	1859

Silicon Tetrahydride, Compressed, *see*	–	2.1	2203
SILVER ARSENITE	P	6.1	1683
SILVER CYANIDE	P	6.1	1684
SILVER NITRATE	–	5.1	1493
Silver Orthoarsenite, *see*	P	6.1	1683
Silver Picrate, dry or wetted with less than 30% water, by mass **(transport prohibited)**	–	–	–
SILVER PICRATE, WETTED with not less than 30% water, by mass	–	4.1	1347
Sisal, Dry, *see*	–	4.1	3360
SLUDGE ACID	–	8	1906
Slurry, explosives, *see* EXPLOSIVES, BLASTING, TYPE E	–	–	–
Smokeless Powder, *see*	–	1.1C	0160
SODA LIME with more than 4% sodium hydroxide	–	8	1907
SODIUM	–	4.3	1428
SODIUM ALUMINATE, SOLID	-	8	2812
SODIUM ALUMINATE SOLUTION	–	8	1819
SODIUM ALUMINIUM HYDRIDE	–	4.3	2835
SodiumAmalgams, Liquid, *see*	–	4.3	1389
Sodium Amalgams, Solid, *see*	-	4.3	3401
Sodium Amide, *see*	–	4.3	1390
SODIUM AMMONIUM VANADATE	–	6.1	2863
SODIUM ARSANILATE	–	6.1	2473
SODIUM ARSENATE	–	6.1	1685
Sodium Arsenite (pesticide), *see* ARSENICAL PESTICIDE	–	–	–
SODIUM ARSENITE, AQUEOUS SOLUTION	–	6.1	1686
SODIUM ARSENITE, SOLID	–	6.1	2027
SODIUM AZIDE	–	6.1	1687
Sodium Bifluoride, *see*	–	8	2439
Sodium Bisulphite Solution, *see*	–	8	2693
SODIUM BOROHYDRIDE	–	4.3	1426
SODIUM BOROHYDRIDE AND SODIUM HYDROXIDE SOLUTION with not more than 12% sodium borohydride and not more than 40% sodium hydroxide, by mass	–	8	3320
SODIUM BROMATE	–	5.1	1494
SODIUM CACODYLATE	–	6.1	1688
SODIUM CARBONATE PEROXYHYDRATE	–	5.1	3378
SODIUM CHLORATE	–	5.1	1495
SODIUM CHLORATE, AQUEOUS SOLUTION	–	5.1	2428
Sodium Chlorate mixed with Dinitrotoluene, *see*	–	1.1D	0083
SODIUM CHLORITE	–	5.1	1496
SODIUM CHLOROACETATE	–	6.1	2659
Sodium Copper Cyanide, Solid, *see*	~~PP~~ P	6.1	2316
Sodium Copper Cyanide Solution, *see*	~~PP~~ P	6.1	2317
SODIUM CUPROCYANIDE, SOLID	~~PP~~ P	6.1	2316

SODIUM CUPROCYANIDE SOLUTION	PP P	6.1	2317
SODIUM CYANIDE, SOLID	P	6.1	1689
SODIUM CYANIDE SOLUTION	P	6.1	3414
Sodium 2-diazo-1-naphthol-4-sulphonate (concentration 100%), *see*	–	4.1	3226
Sodium 2-diazo-1-naphthol-5-sulphonate (concentration 100%), *see*	–	4.1	3226
Sodium Dicyanocuprate(I), Solid, *see*	PP P	6.1	2316
Sodium Dicyanocuprate(I) Solution, *see*	-	6.1	2317
SODIUM DINITRO-*ortho*-CRESOLATE dry or wetted with less than 15% water, by mass	P	1.3C	0234
SODIUM DINITRO-*o*-CRESOLATE, WETTED with not less than 10% water, by mass	P	4.1	3369
SODIUM DINITRO-*ortho*-CRESOLATE, WETTED with not less than 15% water, by mass	P	4.1	1348
Sodium Dioxide, *see*	–	5.1	1504
Sodium Dispersion, *see*	–	4.3	1391
SODIUM DITHIONITE	–	4.2	1384
SODIUM FLUORIDE, SOLID	–	6.1	1690
SODIUM FLUORIDE SOLUTION	–	6.1	3415
SODIUM FLUOROACETATE	–	6.1	2629
SODIUM FLUOROSILICATE	–	6.1	2674
Sodium Hexafluorosilicate, *see*	–	6.1	2674
Sodium Hydrate, *see*	–	8	1824
SODIUM HYDRIDE	–	4.3	1427
Sodium Hydrogen 4-aminophenylarsenate, *see*	–	6.1	2473
SODIUM HYDROGENDIFLUORIDE	–	8	2439
Sodium Hydrogen Sulphite Solution, *see*	–	8	2693
SODIUM HYDROSULPHIDE HYDRATED with not less than 25% water of crystallization	–	8	2949
SODIUM HYDROSULPHIDE with less than 25% water of crystallization	–	4.2	2318
SODIUM HYDROSULPHITE	–	4.2	1384
SODIUM HYDROXIDE, SOLID	–	8	1823
SODIUM HYDROXIDE SOLUTION	–	8	1824
Sodium Hypochlorite Solution, *see*	–	8	1791
Sodium Metaarsenite, *see*	–	6.1	2027
Sodium Metasilicate, *see*	–	8	3253
Sodium metasilicate pentahydrate, *see*	–	8	3253
Sodium Methoxide, *see*	–	4.2	1431
Sodium Methoxide Solutions in Alcohols, *see*	–	3	1289
SODIUM METHYLATE	–	4.2	1431
SODIUM METHYLATE SOLUTION in alcohol	–	3	1289
Sodium Monochloroacetate, *see*	–	6.1	2659
SODIUM MONOXIDE	–	8	1825
SODIUM NITRATE	–	5.1	1498
SODIUM NITRATE AND POTASSIUM NITRATE MIXTURE	–	5.1	1499

SODIUM NITRITE	–	5.1	1500
Sodium Nitrite and Potassium Nitrate Mixture, *see*	–	5.1	1487
Sodium Orthoarsenate, *see*	–	6.1	1685
Sodium Oxide, *see*	–	8	1825
SODIUM PENTACHLOROPHENATE	PP P	6.1	2567
Sodium Perborate, Anhydrous, *see*	–	5.1	3247
SODIUM PERBORATE MONOHYDRATE	–	5.1	3377
Sodium Percarbonate, *see*	–	5.1	3378
SODIUM PERCHLORATE	–	5.1	1502
SODIUM PERMANGANATE	–	5.1	1503
SODIUM PEROXIDE	–	5.1	1504
SODIUM PEROXOBORATE, ANHYDROUS	–	5.1	3247
SODIUM PERSULPHATE	–	5.1	1505
SODIUM PHOSPHIDE	–	4.3	1432
SODIUM PICRAMATE dry or wetted with less than 20% water, by mass	–	1.3C	0235
SODIUM PICRAMATE, WETTED with not less than 20% water, by mass	–	4.1	1349
Sodium Potassium Alloys, *see*	–	4.3	1422
Sodium Silicofluoride, *see*	–	6.1	2674
SODIUM SULPHIDE, ANHYDROUS	–	4.2	1385
SODIUM SULPHIDE, HYDRATED with not less than 30% water	–	8	1849
SODIUM SULPHIDE with less than 30% water of crystallization	–	4.2	1385
Sodium Sulphydrate, *see*	–	4.2	2318
SODIUM SUPEROXIDE	–	5.1	2547
SOLIDS CONTAINING CORROSIVE LIQUID, N.O.S.	-	8	3244
SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.	-	4.1	3175
SOLIDS CONTAINING TOXIC LIQUID, N.O.S.	-	6.1	3243
Solvents, Flammable, N.O.S., *see*	-	3	1993
Solvents, Toxic, Flammable, N.O.S., *see*	-	3	1992
SOUNDING DEVICES, EXPLOSIVE	–	1.1D	0374
SOUNDING DEVICES, EXPLOSIVE	–	1.1F	0296
SOUNDING DEVICES, EXPLOSIVE	–	1.2D	0375
SOUNDING DEVICES, EXPLOSIVE	–	1.2F	0204
Squibs, *see* IGNITERS, UN 0325 and UN 0454	–	–	–
Stain, *see* PAINT	–	–	–
STANNIC CHLORIDE, ANHYDROUS	–	8	1827
STANNIC CHLORIDE PENTAHYDRATE	–	8	2440
STANNIC PHOSPHIDE	–	4.3	1433
Steel Swarf, *see*	–	4.2	2793
STIBINE	–	2.3	2676
STRAW	–	4.1	1327
Strontium Alloy, non-pyrophoric, *see*	-	4.3	1393
Strontium Alloy, Pyrophoric, *see*	-	4.2	1383
Strontium Amalgams, Liquid, *see*	–	4.3	1392
Strontium Amalgams, Solid, *see*	-	4.3	3402
STRONTIUM ARSENITE	–	6.1	1691
STRONTIUM CHLORATE	–	5.1	1506

Strontium Dioxide, *see*	–	5.1	1509
Strontium Dispersion, *see*	–	4.3	1391
STRONTIUM NITRATE	–	5.1	1507
Strontium Orthoarsenite, *see*	–	6.1	1691
STRONTIUM PERCHLORATE	–	5.1	1508
STRONTIUM PEROXIDE	–	5.1	1509
STRONTIUM PHOSPHIDE	–	4.3	2013
Strontium, Powder, *see*	–	4.2	1383
Strontium Powder, Pyrophoric, *see*	–	4.2	1383
STRYCHNINE	P	6.1	1692
Strychnine pesticides, *see* PESTICIDE, N.O.S.	P	–	–
STRYCHNINE SALTS	P	6.1	1692
STYPHNIC ACID dry or wetted with less than 20% water, or mixture of alcohol and water, by mass	–	1.1D	0219
STYPHNIC ACID, WETTED with not less than 20% water, or mixture of alcohol and water, by mass	–	1.1D	0394
STYRENE MONOMER, STABILIZED	–	3	2055
SUBSTANCES, EVI, N.O.S.	–	1.5D	0482
SUBSTANCES, EXPLOSIVE, N.O.S.	–	1.1A	0473
SUBSTANCES, EXPLOSIVE, N.O.S.	–	1.1C	0474
SUBSTANCES, EXPLOSIVE, N.O.S.	–	1.1D	0475
SUBSTANCES, EXPLOSIVE, N.O.S.	–	1.1G	0476
SUBSTANCES, EXPLOSIVE, N.O.S.	–	1.1L	0357
SUBSTANCES, EXPLOSIVE, N.O.S.	–	1.2L	0358
SUBSTANCES, EXPLOSIVE, N.O.S.	–	1.3C	0477
SUBSTANCES, EXPLOSIVE, N.O.S.	–	1.3G	0478
SUBSTANCES, EXPLOSIVE, N.O.S.	–	1.3L	0359
SUBSTANCES, EXPLOSIVE, N.O.S.	–	1.4C	0479
SUBSTANCES, EXPLOSIVE, N.O.S.	–	1.4D	0480
SUBSTANCES, EXPLOSIVE, N.O.S.	–	1.4G	0485
SUBSTANCES, EXPLOSIVE, N.O.S.	–	1.4S	0481
SUBSTANCES, EXPLOSIVE, VERY INSENSITIVE, N.O.S.	–	1.5D	0482
SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, FLAMMABLE, TOXIC flashpoint less than 23°C	÷	3	2780
SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, TOXIC	÷	6.1	3014
SUBSTITUTED NITROPHENOL PESTICIDE, LIQUID, TOXIC, FLAMMABLE flashpoint not less than 23°C	÷	6.1	3013
SUBSTITUTED NITROPHENOL PESTICIDE, SOLID, TOXIC	÷	6.1	2779
Sulfotep, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
SULPHAMIC ACID	–	8	2967
Sulphonyl Chloride, *see*	–	8	1834
SULPHUR	–	4.1	1350
SULPHUR CHLORIDES	–	8	1828
Sulphur Dichloride, *see*	–	8	1828
SULPHUR DIOXIDE	–	2.3	1079
Sulphuretted Hydrogen, *see*	–	2.3	1053
SULPHUR HEXAFLUORIDE	–	2.2	1080
Sulphuric Acid and Hydrofluoric Acid Mixture, *see*	–	8	1786

SULPHURIC ACID, FUMING	–	8	1831
SULPHURIC ACID, SPENT	–	8	1832
SULPHURIC ACID with more than 51% acid	–	8	1830
SULPHURIC ACID with not more than 51% acid	–	8	2796
Sulphuric Anhydride, Stabilized, *see*	–	8	1829
Sulphuric Chloride, *see*	–	8	1834
Sulphuric Oxychloride, *see*	–	8	1834
Sulphuric Oxyfluoride, *see*	–	2.3	2191
SULPHUR, MOLTEN	–	4.1	2448
Sulphur Monochloride, *see*	–	8	1828
SULPHUROUS ACID	–	8	1833
Sulphurous Oxychloride, *see*	–	8	1836
Sulphur Oxychloride, *see*	–	8	1836
SULPHUR TETRAFLUORIDE	–	2.3	2418
SULPHUR TRIOXIDE, STABILIZED	–	8	1829
SULPHURYL CHLORIDE	–	8	1834
SULPHURYL FLUORIDE	–	2.3	2191
Sulprophos, *see* ORGANOPHOSPHORUS PESTICIDE	~~PP~~ P	–	–
Synthetic Fabrics, Oily, *see*	~~-~~	4.2	1373
Synthetic Fibres, Oily, *see*	~~-~~	4.2	1373
Systox, *see* ORGANOPHOSPHORUS PESTICIDE (Demeton-O)	–	–	–
~~2,4,5-T, *see* PHENOXY PESTICIDE~~	~~–~~	~~–~~	~~–~~
2,4,5-T, *see* PHENOXYACETIC ACID DERIVATIVE	–	–	–
Tallow Nitrile, *see*	P	9	3082
TARS, LIQUID including road asphalt and oils, bitumen and cut backs	~~-~~	3	1999
Tartar Emetic, *see*	–	6.1	1551
TEAR GAS CANDLES	–	6.1	1700
TEAR GAS SUBSTANCE, LIQUID, N.O.S.	~~-~~	6.1	1693
TEAR GAS SUBSTANCE, SOLID, N.O.S.	~~-~~	6.1	3448
TELLURIUM COMPOUND, N.O.S.	~~-~~	6.1	3284
TELLURIUM HEXAFLUORIDE	–	2.3	2195
Temephos, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
Tepp, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
Terbufos, *see* ORGANOPHOSPHORUS PESTICIDE	~~PP~~ P	–	–
Terbumeton, *see* TRIAZINE PESTICIDE	–	–	–
TERPENE HYDROCARBONS, N.O.S.	~~-~~	3	2319
Terpenes, N.O.S., *see*	~~-~~	3	2319
TERPINOLENE	–	3	2541
TETRABROMOETHANE	P	6.1	2504
1,1,2,2-Tetrabromoethane, *see*	P	6.1	2504
Tetrabromomethane, *see*	P	6.1	2516
1,1,2,2-TETRACHLOROETHANE	P	6.1	1702
TETRACHLOROETHYLENE	P	6.1	1897
Tetrachloromethane, *see*	P	6.1	1846
Tetrachlorophenol, *see*	–	6.1	2020

Tetrachlorvinphos, *see* **Note 1**	PP P	–	–
Tetraethoxysilane, *see*	–	3	1292
TETRAETHYL DITHIOPYROPHOSPHATE	P	6.1	1704
TETRAETHYLENEPENTAMINE	–	8	2320
Tetraethyl lead, *see*	PP P	6.1	1649
Tetraethyl orthosilicate, *see*	–	3	1292
TETRAETHYL SILICATE	–	3	1292
Tetrafluorodichloroethane, *see*	–	2.2	1958
1,1,2,2-Tetrafluoro-1,2-dichloroethane, *see*	–	2.2	1958
1,1,1,2-TETRAFLUOROETHANE	–	2.2	3159
TETRAFLUOROETHYLENE, STABILIZED	–	2.1	1081
TETRAFLUOROMETHANE	–	2.2	1982
Tetrafluorosilane, Compressed, *see*	–	2.3	1859
1,2,3,6-TETRAHYDROBENZALDEHYDE	–	3	2498
Tetrahydrobenzene, *see*	–	3	2256
TETRAHYDROFURAN	–	3	2056
TETRAHYDROFURFURYLAMINE	–	3	2943
Tetrahydromethylfuran, *see*	–	3	2536
Tetrahydro-1,4-oxazine, *see*	–	8	2054
TETRAHYDROPHTHALIC ANHYDRIDES with more than 0.05% maleic anhydride	–	8	2698
1,2,3,6-TETRAHYDROPYRIDINE	–	3	2410
TETRAHYDROTHIOPHENE	–	3	2412
Tetramethoxysilane, *see*	–	6.1	2606
Tetramethrin, *see* **Note 1**	P	–	–
TETRAMETHYLAMMONIUM HYDROXIDE, SOLID	–	8	3423
TETRAMETHYLAMMONIUM HYDROXIDE SOLUTION	–	8	1835
1,1,3,3-Tetramethylbutyl hydroperoxide (concentration ≤ 100%), *see*	–	5.2	3105
1,1,3,3-Tetramethylbutyl peroxy-2-ethylhexanoate (concentration ≤ 100%), *see*	–	5.2	3115
1,1,3,3-Tetramethylbutyl peroxyneodecanoate (concentration ≤ 52% as a stable dispersion in water), *see*	–	5.2	3119
1,1,3,3-Tetramethylbutyl peroxyneodecanoate (concentration ≤ 72%, with diluent Type B), *see*	–	5.2	3115
Tetramethylene, *see*	–	2.1	2601
Tetramethylene Cyanide, *see*	–	6.1	2205
N,*N*,*N*0,*N*0-Tetramethylethylenediamine, *see*	–	3	2372
Tetramethyllead, *see*	P	6.1	1649
TETRAMETHYLSILANE	–	3	2749
Tetramine Palladium (II) Nitrate (concentration 100%), *see*	–	4.1	3234
TETRANITROANILINE	–	1.1D	0207
TETRANITROMETHANE	–	5.1	1510
Tetrapropylene, *see*	–	3	2850
TETRAPROPYL ORTHOTITANATE	–	3	2413
TETRAZENE, WETTED with not less than 30% water, or mixture of alcohol and water, by mass	–	1.1A	0114

TETRAZOL-1-ACETIC ACID	–	1.4C	0407
1*H*-TETRAZOLE	–	1.1D	0504
TETRYL	–	1.1D	0208
TEXTILE WASTE, WET	–	4.2	1857
THALLIUM CHLORATE	P	5.1	2573
Thallium (I) Chlorate, *see*	–	5.1	2573
THALLIUM COMPOUND, N.O.S.	P	6.1	1707
THALLIUM NITRATE	P	6.1	2727
Thallium(I) Nitrate, *see*	–	6.1	2727
Thallium Sulphate, *see*	P	6.1	1707
Thallous Chlorate, *see*	P	5.1	2573
Thia-4-pentanal, *see*	–	6.1	2785
4-THIAPENTANAL	–	6.1	2785
THIOACETIC ACID	–	3	2436
THIOCARBAMATE PESTICIDE, LIQUID, FLAMMABLE, TOXIC flashpoint less than 23°C	-	3	2772
THIOCARBAMATE PESTICIDE, LIQUID, TOXIC	-	6.1	3006
THIOCARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE flashpoint not less than 23°C	-	6.1	3005
THIOCARBAMATE PESTICIDE, SOLID, TOXIC	-	6.1	2771
Thiocarbonyl Chloride, *see*	–	6.1	2474
Thiocarbonyl Tetrachloride, *see*	P	6.1	1670
THIOGLYCOL	–	6.1	2966
THIOGLYCOLIC ACID	–	8	1940
Thiolacetic Acid, *see*	–	3	2436
THIOLACTIC ACID	–	6.1	2936
Thiometon, *see* ORGANOPHOSPHORUS PESTICIDE	–	–	–
Thionazin, *see* ORGANOPHOSPHORUS PESTICIDE	–	–	–
THIONYL CHLORIDE	–	8	1836
THIOPHENE	–	3	2414
Thiophenol, *see*	–	6.1	2337
THIOPHOSGENE	–	6.1	2474
THIOPHOSPHORYL CHLORIDE	–	8	1837
Thiopropyl Alcohols, *see*	–	3	2402
THIOUREA DIOXIDE	–	4.2	3341
Tin (IV) Chloride, Anhydrous, *see*	–	8	1827
Tin Chloride, Fuming, *see*	–	8	1827
Tin (IV) Chloride Pentahydrate, *see*	–	8	2440
TINCTURES, MEDICINAL	-	3	1293
Tin Monophosphide, *see*	–	4.3	1433
Tin Tetrachloride, *see*	–	8	1827
Titanic Chloride, *see*	–	8	1838
TITANIUM DISULPHIDE	–	4.2	3174
TITANIUM HYDRIDE	–	4.1	1871
TITANIUM POWDER, DRY	–	4.2	2546
TITANIUM POWDER, WETTED with not less than 25% water (a visible excess of water must be present) (a) mechanically produced, having a particle size less than	–	4.1	1352

53 microns; (b) chemically produced, having a particle size less than 840 microns			
TITANIUM, SPONGE GRANULES	–	4.1	2878
TITANIUM, SPONGE POWDERS	–	4.1	2878
TITANIUM TETRACHLORIDE	–	8	1838
TITANIUM TRICHLORIDE MIXTURE	–	8	2869
TITANIUM TRICHLORIDE MIXTURE, PYROPHORIC	–	4.2	2441
TITANIUM TRICHLORIDE, PYROPHORIC	–	4.2	2441
Titanous Chloride, Pyrophoric, *see*	–	4.2	2441
TNT AND HEXANITROSTILBENE MIXTURE	–	1.1D	0388
TNT AND TRINITROBENZENE MIXTURE	–	1.1D	0388
TNT dry or wetted with less than 30% water, by mass	–	1.1D	0209
TNT mixed with Aluminium, *see*	–	1.1D	0390
TNT MIXTURE CONTAINING TRINITROBENZENE AND HEXANITROSTILBENE	–	1.1D	0389
TNT, WETTED with not less than 10% water, by mass	–	4.1	3366
TNT wetted with not less than 30% water, by mass, *see*	–	4.1	1356
Toe Puffs, Nitrocellulose Base, *see*	–	4.1	1353
TOLUENE	–	3	1294
TOLUENE DIISOCYANATE	–	6.1	2078
Toluene Trichloride, *see*	–	8	2226
TOLUIDINES, LIQUID	–	6.1	1708
TOLUIDINES, SOLID	–	6.1	3451
Toluol, *see*	–	3	1294
2,4-TOLUYLENEDIAMINE, SOLID	–	6.1	1709
2,4-TOLUYLENEDIAMINE SOLUTION	–	6.1	3418
Toluylene Diisocyanate, *see*	–	6.1	2078
Tolylene Diisocyanate, *see*	–	6.1	2078
Tolylethylene, Stabilized, *see*	–	3	2618
TORPEDOES, LIQUID-FUELLED with inert head	–	1.3J	0450
TORPEDOES, LIQUID-FUELLED with or without bursting charge	–	1.1J	0449
TORPEDOES with bursting charge	–	1.1D	0451
TORPEDOES with bursting charge	–	1.1E	0329
TORPEDOES with bursting charge	–	1.1F	0330
TOXIC BY INHALATION LIQUID, CORROSIVE, N.O.S. with an inhalation toxicity lower than or equal to 1000 m`/m^3 and saturated vapour concentration greater than or equal to 10 LC_{50}	÷	6.1	3390
TOXIC BY INHALATION LIQUID, CORROSIVE, N.O.S. with an inhalation toxicity lower than or equal to 200 m`/m^3 and saturated vapour concentration greater than or equal to 500 LC_{50}	÷	6.1	3389
TOXIC BY INHALATION LIQUID, FLAMMABLE, N.O.S. with an inhalation toxicity lower than or equal to 1000 m`/m^3 and saturated vapour concentration greater than or equal to 10 LC_{50}	÷	6.1	3384
TOXIC BY INHALATION LIQUID, FLAMMABLE, N.O.S. with an inhalation toxicity lower than or equal to 200 m`/m^3 and saturated vapour concentration greater than	÷	6.1	3383

or equal to 500 LC_{50}			
TOXIC BY INHALATION LIQUID, N.O.S. with an inhalation toxicity lower than or equal to 1000 m`/m^3 and saturated vapour concentration greater than or equal to 10 LC_{50}	-	6.1	3382
TOXIC BY INHALATION LIQUID, N.O.S. with an inhalation toxicity lower than or equal to 200 m`/m^3 and saturated vapour concentration greater than or equal to 500 LC_{50}	-	6.1	3381
TOXIC BY INHALATION LIQUID, OXIDIZING, N.O.S. with an inhalation toxicity lower than or equal to 1000 m`/m^3 and saturated vapour concentration greater than or equal to 10 LC_{50}	-	6.1	3388
TOXIC BY INHALATION LIQUID, OXIDIZING, N.O.S. with an inhalation toxicity lower than or equal to 200 m`/m^3 and saturated vapour concentration greater than or equal to 500 LC_{50}	-	6.1	3387
TOXIC BY INHALATION LIQUID, WATER-REACTIVE, N.O.S. with an inhalation toxicity lower than or equal to 1000 m`/m^3 and saturated vapour concentration greater than or equal to 10 LC_{50}	-	6.1	3386
TOXIC BY INHALATION LIQUID, WATER-REACTIVE, N.O.S. with an inhalation toxicity lower than or equal to 200 m`/m^3 and saturated vapour concentration greater than or equal to 500 LC_{50}	-	6.1	3385
TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S.	-	6.1	3289
TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.	-	6.1	2927
TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.	-	6.1	2929
TOXIC LIQUID, INORGANIC, N.O.S.	-	6.1	3287
TOXIC LIQUID, ORGANIC, N.O.S.	-	6.1	2810
TOXIC LIQUID, OXIDIZING, N.O.S.	-	6.1	3122
TOXIC LIQUID, WATER-REACTIVE, N.O.S.	-	6.1	3123
TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S.	-	6.1	3290
TOXIC SOLID, CORROSIVE, ORGANIC, N.O.S.	-	6.1	2928
TOXIC SOLID, FLAMMABLE, ORGANIC, N.O.S.	-	6.1	2930
TOXIC SOLID, INORGANIC, N.O.S.	-	6.1	3288
TOXIC SOLID, ORGANIC, N.O.S.	-	6.1	2811
TOXIC SOLID, OXIDIZING, N.O.S.	-	6.1	3086
TOXIC SOLID, SELF-HEATING, N.O.S.	-	6.1	3124
TOXIC SOLID, WATER-REACTIVE, N.O.S.	-	6.1	3125
TOXINS, EXTRACTED FROM LIVING SOURCES, LIQUID, N.O.S.	-	6.1	3172
TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S.	-	6.1	3462
TRACERS FOR AMMUNITION	–	1.3G	0212
TRACERS FOR AMMUNITION	–	1.4G	0306
Tremolite, *see*	–	9	2590
~~Triadimefon, *see* PHENOXY PESTICIDE~~	–	–	–
Triadimefon, *see* PHENOXYACETIC ACID DERIVATIVE	–	–	–
TRIALLYLAMINE	–	3	2610
TRIALLYL BORATE	–	6.1	2609
Triamiphos, *see* ORGANOPHOSPHORUS PESTICIDE	–	–	–
Triaryl Phosphates, Isopropylated, *see*	P	9	3082
Triaryl Phosphates, N.O.S., *see*	~~PP~~ P	9	3082
TRIAZINE PESTICIDE, LIQUID, FLAMMABLE, TOXIC flashpoint less than 23°C	-	3	2764

TRIAZINE PESTICIDE, LIQUID, TOXIC	~~P~~	6.1	2998
TRIAZINE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flashpoint not less than 23°C	~~P~~	6.1	2997
TRIAZINE PESTICIDE, SOLID, TOXIC	~~P~~	6.1	2763
Triazophos, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
Tribromoborane, *see*	–	8	2692
Tribromomethane, *see*	P	6.1	2515
TRIBUTYLAMINE	–	6.1	2542
TRIBUTYLPHOSPHANE	–	4.2	3254
Tributyltin Compounds, *see* ORGANOTIN PESTICIDE	~~PP~~ P	–	–
Tricamba, *see* BENZOIC DERIVATIVE PESTICIDE	–	–	–
Trichlorfon, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
Trichloroacetaldehyde, Anhydrous, Stabilized, *see*	–	6.1	2075
TRICHLOROACETIC ACID, SOLID	–	8	1839
TRICHLOROACETIC ACID SOLUTION	–	8	2564
Trichloroacetic Aldehyde, Anhydrous, Stabilized, *see*	–	6.1	2075
TRICHLOROACETYL CHLORIDE	–	8	2442
1,2,3-Trichlorobenzenes, *see* **Note 1**	~~PP~~ P	–	–
TRICHLOROBENZENES, LIQUID	P	6.1	2321
TRICHLOROBUTENE	P	6.1	2322
Trichlorobutylene, *see*	P	6.1	2322
1,1,1-TRICHLOROETHANE	–	6.1	2831
1,1,2-Trichloroethane, *see*	–	9	3082
TRICHLOROETHYLENE	–	6.1	1710
TRICHLOROISOCYANURIC ACID, DRY	–	5.1	2468
Trichloromethane, *see*	–	6.1	1888
Trichloromethanesulphuryl Chloride, *see*	P	6.1	1670
Trichloromethyl Sulphochloride, *see*	P	6.1	1670
Trichloronat, *see* ORGANOPHOSPHORUS PESTICIDE	P	–	–
Trichloronitromethane, *see*	–	6.1	1580
TRICHLOROSILANE	–	4.3	1295
2,4,6-Trichloro-1,3,5-triazine, *see*	–	8	2670
1,3,5-Trichloro-*s*-triazine-2,4,6-trione, *see*	–	5.1	2468
Tricresyl Phosphate, less than 1% *ortho*-isomer, *see*	P	9	3082
Tricresyl Phosphate, not less than 1% but not more than 3% *ortho*-isomer, *see*	~~PP~~ P	9	3082
TRICRESYL PHOSPHATE with more than 3% *ortho*-isomer	~~PP~~ P	6.1	2574
Tricyanogen Chloride, *see*	–	8	2670
Triethoxyboron, *see*	–	3	1176
Triethoxymethane, *see*	–	3	2524
TRIETHYLAMINE	–	3	1296
Triethylbenzene, *see*	P	9	3082
Triethyl Borate, *see*	–	3	1176
Triethylenephosphoramide Solution, *see*	–	6.1	2501
TRIETHYLENETETRAMINE	–	8	2259

Triethyl Orthoformate, *see*	–	3	2524
TRIETHYL PHOSPHITE	–	3	2323
3,6,9-Triethyl-3,6,9-trimethyl-1,4,7-triperoxonane (concentration ≤ 42%, with diluent Type A, available oxygen ≤ 7.6%), *see*	–	5.2	3105
TRIFLUOROACETIC ACID	–	8	2699
TRIFLUOROACETYL CHLORIDE	–	2.3	3057
Trifluorobromomethane, *see*	–	2.2	1009
Trifluorochloroethane, *see*	–	2.2	1983
TRIFLUOROCHLOROETHYLENE, STABILIZED	–	2.3	1082
Trifluorochloromethane, *see*	–	2.2	1022
1,1,1-TRIFLUOROETHANE	–	2.1	2035
TRIFLUOROMETHANE	–	2.2	1984
Trifluoromethane and Chlorotrifluoromethane Azeotropic Mixture, *see* CHLOROTRIFLUOROMETHANE AND TRIFLUOROMETHANE AZEOTROPIC MIXTURE	–	–	–
TRIFLUOROMETHANE, REFRIGERATED LIQUID	–	2.2	3136
Trifluoromethoxy-trifluoroethylene, *see*	–	2.1	3153
2-TRIFLUOROMETHYLANILINE	–	6.1	2942
3-TRIFLUOROMETHYLANILINE	–	6.1	2948
Trifluoromethylbenzene, *see*	–	3	2338
Trifluoromethylphenyl Isocyanates, *see*	–	6.1	2285
Trifluoromethyl Trifluorovinyl Ether, *see*	–	2.1	3153
Trifluoromonochloroethylene, Stabilized, *see*	–	2.3	1082
TRIISOBUTYLENE	–	3	2324
Triisopropylated Phenyl Phosphates, *see*	P	9	3077
TRIISOPROPYL BORATE	–	3	2616
TRIMETHYLACETYL CHLORIDE	–	6.1	2438
TRIMETHYLAMINE, ANHYDROUS	–	2.1	1083
TRIMETHYLAMINE, AQUEOUS SOLUTION not more than 50% trimethylamine, by mass	–	3	1297
1,3,5-TRIMETHYLBENZENE	–	3	2325
TRIMETHYL BORATE	–	3	2416
Trimethyl Carbinol, *see*	–	3	1120
TRIMETHYLCHLOROSILANE	–	3	1298
TRIMETHYLCYCLOHEXYLAMINE	–	8	2326
Trimethylene Chlorobromide, *see*	–	6.1	2688
Trimethylene Chlorohydrin, *see*	–	6.1	2849
Trimethylene Dichloride, *see*	–	3	1993
Trimethylgallium, *see*	₹	4.2	3394
TRIMETHYLHEXAMETHYLENEDIAMINES	–	8	2327
TRIMETHYLHEXAMETHYLENE DIISOCYANATE	–	6.1	2328
2,2,4-Trimethylpentane, *see*	–	3	1262
2,4,4-Trimethylpentene-1, *see*	–	3	2050
2,4,4-Trimethylpentene-2, *see*	–	3	2050
TRIMETHYL PHOSPHITE	–	3	2329
2,4,6-Trimethyl-1,3,5-trioxane, *see*	–	3	1264
TRINITROANILINE	–	1.1D	0153

TRINITROANISOLE	–	1.1D	0213
TRINITROBENZENE dry or wetted with less than 30% water, by mass	–	1.1D	0214
TRINITROBENZENESULPHONIC ACID	–	1.1D	0386
TRINITROBENZENE, WETTED with not less than 10% by mass	–	4.1	3367
TRINITROBENZENE, WETTED with not less than 30% water, by mass	–	4.1	1354
TRINITROBENZOIC ACID dry or wetted with less than 30% water, by mass	–	1.1D	0215
TRINITROBENZOIC ACID, WETTED with not less than 10% water, by mass	–	4.1	3368
TRINITROBENZOIC ACID, WETTED with not less than 30% water, by mass	–	4.1	1355
TRINITROCHLOROBENZENE	–	1.1D	0155
TRINITROCHLOROBENZENE, WETTED with not less than 10% water, by mass	–	4.1	3365
TRINITRO-*meta*-CRESOL	–	1.1D	0216
TRINITROFLUORENONE	–	1.1D	0387
TRINITRONAPHTHALENE	–	1.1D	0217
TRINITROPHENETOLE	–	1.1D	0218
TRINITROPHENOL dry or wetted with less than 30% water, by mass	–	1.1D	0154
TRINITROPHENOL, WETTED with not less than 10% water, by mass	–	4.1	3364
TRINITROPHENOL (PICRIC ACID), WETTED with not less than 30% water, by mass	–	4.1	1344
TRINITROPHENYLMETHYLNITRAMINE	–	1.1D	0208
TRINITRORESORCINOL dry or wetted with less than 20% water, or mixture of alcohol and water, by mass	–	1.1D	0219
TRINITRORESORCINOL, WETTED with not less than 20% water, or mixture of alcohol and water, by mass	–	1.1D	0394
TRINITROTOLUENE AND HEXANITROSTILBENE MIXTURE	–	1.1D	0388
TRINITROTOLUENE AND TRINITROBENZENE MIXTURE	–	1.1D	0388
TRINITROTOLUENE dry or wetted with less than 30% water, by mass	–	1.1D	0209
TRINITROTOLUENE MIXTURE CONTAINING TRINITROBENZENE AND HEXANITROSTILBENE	–	1.1D	0389
TRINITROTOLUENE, WETTED with not less than 10% water, by mass	–	4.1	3366
TRINITROTOLUENE (TNT), WETTED with not less than 30% water, by mass	–	4.1	1356
Trinitrotoluol, Wetted, *see*	–	4.1	1356
Triphenyl Phosphate, *see*	~~PP~~ P	9	3077
Triphenyl Phosphate/*tert*-Butylated Triphenyl Phosphates mixtures containing 10% to 48% of Triphenyl Phosphate, *see* **Note 1**	~~PP~~ P	–	–
Triphenyl Phosphate/*tert*-Butylated Triphenyl Phosphates mixtures containing 5% to 10% of Triphenyl Phosphate, *see* **Note 1**	P	–	–
Triphenyltin Compounds (other than Fentin Acetate and Fentin Hydroxide), *see* ORGANOTIN PESTICIDE	~~PP~~ P	–	–
TRIPROPYLAMINE	–	3	2260

TRIPROPYLENE	–	3	2057
TRIS-(1-AZIRIDINYL)PHOSPHINE OXIDE SOLUTION	–	6.1	2501
Tritolyl Phosphate, *see*	PP P	6.1	2574
TRITONAL	–	1.1D	0390
Trixylenyl Phosphate, *see*	P	9	3082
Tropilidene, *see*	–	3	2603
TUNGSTEN HEXAFLUORIDE	–	2.3	2196
TURPENTINE	–	3	1299
TURPENTINE SUBSTITUTE	-	3	1300
UNDECANE	–	3	2330
Uranium hexafluoride, fissile, *see*	–	7	2977
Uranium hexafluoride, non fissile or fissile – excepted, *see*	–	7	2978
UREA HYDROGEN PEROXIDE	–	5.1	1511
UREA NITRATE dry or wetted, with less than 20% water, by mass	–	1.1D	0220
UREA NITRATE, WETTED with not less than 10% water, by mass	–	4.1	3370
UREA NITRATE, WETTED with not less than 20% water, by mass	–	4.1	1357
Urotropine, *see*	–	4.1	1328
Valeral, *see*	–	3	2058
VALERALDEHYDE	–	3	2058
Valeric Aldehyde(s), *see*	–	3	2058
VALERYL CHLORIDE	–	8	2502
Vamidothion, *see* ORGANOPHOSPHORUS PESTICIDE	–	–	–
VANADIUM COMPOUND, N.O.S.	-	6.1	3285
Vanadium (IV) Oxide Sulphate	–	6.1	2931
Vanadium Oxysulphate, *see*	–	6.1	2931
VANADIUM OXYTRICHLORIDE	–	8	2443
VANADIUM PENTOXIDE, non-fused form	–	6.1	2862
VANADIUM TETRACHLORIDE	–	8	2444
VANADIUM TRICHLORIDE	–	8	2475
VANADYL SULPHATE	–	6.1	2931
Varnish, *see* PAINT	–	–	–
Vegetable Fabrics, Oily, *see*	-	4.2	1373
Vegetable Fibres, burnt, wet or damp, *see*	–	4.2	1372
Vegetable Fibres, Dry, *see*	–	4.1	3360
Vegetable Fibres, Oily, *see*	-	4.2	1373
VINYL ACETATE, STABILIZED	–	3	1301
Vinylbenzene, Stabilized, *see*	–	3	2055
VINYL BROMIDE, STABILIZED	–	2.1	1085
Vinyl *normal*-Butyl Ether, Stabilized, *see*	–	3	2352
VINYL BUTYRATE, STABILIZED	–	3	2838
VINYL CHLORIDE, STABILIZED	–	2.1	1086
VINYL CHLOROACETATE	–	6.1	2589
Vinyl Cyanide, Stabilized, *see*	–	3	1093
Vinyl Ether, Stabilized, *see*	–	3	1167

VINYL ETHYL ETHER, STABILIZED	–	3	1302
VINYL FLUORIDE, STABILIZED	–	2.1	1860
VINYLIDENE CHLORIDE, STABILIZED	P	3	1303
Vinylidene Fluoride, *see*	–	2.1	1959
VINYL ISOBUTYL ETHER, STABILIZED	–	3	1304
VINYL METHYL ETHER, STABILIZED	–	2.1	1087
VINYLPYRIDINES, STABILIZED	–	6.1	3073
VINYLTOLUENES, STABILIZED	–	3	2618
VINYLTRICHLOROSILANE	–	3	1305
Warfarin (and salts of), *see* COUMARIN DERIVATIVE PESTICIDE	P	–	–
Warheads for guided missiles, *see* WARHEADS, ROCKET	–	–	–
WARHEADS, ROCKET with burster or expelling charge	–	1.4D	0370
WARHEADS, ROCKET with burster or expelling charge	–	1.4F	0371
WARHEADS, ROCKET with bursting charge	–	1.1D	0286
WARHEADS, ROCKET with bursting charge	–	1.1F	0369
WARHEADS, ROCKET with bursting charge	–	1.2D	0287
WARHEADS, TORPEDO with bursting charge	–	1.1D	0221
Water-activated Contrivances, *see* CONTRIVANCES, WATER-ACTIVATED	–	–	–
Water Gels, *see* EXPLOSIVE, BLASTING, TYPE E	–	–	–
WATER-REACTIVE LIQUID, CORROSIVE, N.O.S.	–	4.3	3129
WATER-REACTIVE LIQUID, N.O.S.	–	4.3	3148
WATER-REACTIVE LIQUID, TOXIC, N.O.S.	–	4.3	3130
WATER-REACTIVE SOLID, CORROSIVE, N.O.S.	–	4.3	3131
WATER-REACTIVE SOLID, FLAMMABLE, N.O.S.	–	4.3	3132
WATER-REACTIVE SOLID, N.O.S.	–	4.3	2813
WATER-REACTIVE SOLID, OXIDIZING, N.O.S.	–	4.3	3133
WATER-REACTIVE SOLID, SELF-HEATING, N.O.S.	–	4.3	3135
WATER-REACTIVE SOLID, TOXIC, N.O.S.	–	4.3	3134
White Arsenic, *see*	–	6.1	1561
White Asbestos, *see*	–	9	2590
WHITE ASBESTOS (chrysotile, actinolite, anthophyllite, tremolite)	–	9	2590
White Phosphorus, Dry, *see*	PP P	4.2	1381
White Phosphorus, Wet, *see*	PP P	4.2	1381
White Spirit, *see*	P	3	1300
White Spirit, low (15–20%) aromatic, *see*	P	3	1300
WOOD PRESERVATIVES, LIQUID	–	3	1306
Wood Tar, *see*	P	9	3082
WOOL WASTE, WET	–	4.2	1387
XANTHATES	–	4.2	3342
XENON	–	2.2	2036
XENON, REFRIGERATED LIQUID	–	2.2	2591
XYLENES	–	3	1307
XYLENOLS, LIQUID	–	6.1	3430
XYLENOLS, SOLID	–	6.1	2261

XYLIDINES, LIQUID	–	6.1	1711
XYLIDINES, SOLID	–	6.1	3452
Xylols, *see*	–	3	1307
XYLYL BROMIDE, LIQUID	–	6.1	1701
XYLYL BROMIDE, SOLID	–	6.1	3417
Yellow Phosphorus, Dry, *see*	~~PP~~ P	4.2	1381
Yellow Phosphorus, Wet, *see*	~~PP~~ P	4.2	1381
ZINC AMMONIUM NITRITE **(transport prohibited)**	–	5.1	1512
ZINC ARSENATE	–	6.1	1712
ZINC ARSENATE AND ZINC ARSENITE MIXTURE	–	6.1	1712
ZINC ARSENITE	–	6.1	1712
ZINC ASHES	–	4.3	1435
Zinc Bisulphite Solution, *see*	–	8	2693
ZINC BROMATE	–	5.1	2469
Zinc Bromide, *see*	P	9	3077
ZINC CHLORATE	–	5.1	1513
ZINC CHLORIDE, ANHYDROUS	–	8	2331
ZINC CHLORIDE SOLUTION	–	8	1840
ZINC CYANIDE	P	6.1	1713
ZINC DITHIONITE	–	9	1931
ZINC DUST	–	4.3	1436
Zinc Dust, Pyrophoric, *see*	–	4.2	1383
ZINC FLUOROSILICATE	–	6.1	2855
Zinc Hexafluorosilicate, *see*	–	6.1	2855
ZINC HYDROSULPHITE	–	9	1931
ZINC NITRATE	–	5.1	1514
ZINC PERMANGANATE	–	5.1	1515
ZINC PEROXIDE	–	5.1	1516
ZINC PHOSPHIDE	–	4.3	1714
ZINC POWDER	–	4.3	1436
Zinc Powder, Pyrophoric, *see*	–	4.2	1383
ZINC RESINATE	–	4.1	2714
Zinc Silicofluoride, *see*	–	6.1	2855
ZIRCONIUM, DRY coiled wire, finished metal sheets, strip (thinner than 254 microns but not thinner than 18 microns)	–	4.1	2858
ZIRCONIUM, DRY finished sheets, strip or coiled wire	–	4.2	2009
ZIRCONIUM HYDRIDE	–	4.1	1437
ZIRCONIUM NITRATE	–	5.1	2728
ZIRCONIUM PICRAMATE dry or wetted with less than 20% water, by mass	–	1.3C	0236
ZIRCONIUM PICRAMATE, WETTED with not less than 20% water, by mass	–	4.1	1517
ZIRCONIUM POWDER, DRY	–	4.2	2008
ZIRCONIUM POWDER, WETTED with not less than 25% water (a visible excess of water must be present) (a) mechanically produced, particle size less than 53 microns; (b) chemically produced, particle size less than 840 microns	–	4.1	1358

ZIRCONIUM, SCRAP	–	4.2	1932
ZIRCONIUM, SUSPENDED IN A FLAMMABLE LIQUID	–	3	1308

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