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LEGISLATIVE COUNCIL BRIEF

Dangerous Goods Ordinance
(Chapter 295)

DANGEROUS GOODS (AMENDMENT) BILL 1999

INTRODUCTION

At the meeting of the Executive Council on 9 November 1999, the Council ADVISED and the Chief Executive ORDERED that –

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(a) the Dangerous Goods (Amendment) Bill 1999, at Annex A, should be introduced into the Legislative Council; and

(b) the proposals set out in paragraph 8 should form the basis of further amendments to the subsidiary legislation pursuant to the passage of the Bill.

BACKGROUND AND ARGUMENT

General Background

2. The Dangerous Goods Ordinance (the Ordinance) provides for the control on land and at sea of about 400 types of dangerous goods under ten broad Categories in accordance with their inherent characteristics as to whether the substances are explosive, flammable, corrosive, etc. When the Ordinance was enacted in 1956, there were no international standards governing the classification, labelling and packaging of dangerous goods. Over the years, international codes on the general transportation of dangerous goods and for specific modes of transport* have been developed and published, all based on the system developed by the United Nations (UN) Economic and Social Council's Committee of Experts on the Transport of Dangerous Goods. Regular revisions reflecting technological changes and requirements against the blooming global trade have made these codes

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* **Note** These include the United Nations' Recommendations on the Transport of Dangerous Goods, International Maritime Dangerous Goods Code, and Technical Instructions for the Safe Transport of Dangerous Goods by Air, and European Agreement Concerning the International Carriage of Dangerous Goods by Road.

increasingly suitable as a basis for domestic adoption. Many of our major trading partners such as the United States, the European Community and Australia have gradually aligned their national rules on dangerous goods with the UN system.

3. Although the Ordinance has been updated periodically since its enactment, there has not been any attempt to align the domestic control framework with the commonly adopted international system. As a result, when dangerous goods are imported, exported or re-exported through Hong Kong, they are often required to comply with two distinctive sets of requirements prevailing locally and overseas. Furthermore, changes in local circumstances have also called for improvements to the legislative control system.

Legislative Review

4. The Fire Services Department, the Civil Engineering Department and the Marine Department started a comprehensive review of the Ordinance in 1995 with a view to bringing it into line with international standards. As most dangerous goods are imported and exported by sea, the Departments agreed that the local control system should follow the International Maritime Dangerous Goods (IMDG) Code as far as possible. The Code is published by the International Maritime Organization based on the UN system and specifically provides for recommendations in respect of control on sea carriage of dangerous goods. Furthermore, the Departments recommended that the list of dangerous goods under the Ordinance should be expanded with reference to the IMDG Code, subject to minor variations to suit local circumstances.

5. The Departments also proposed to update other arrangements under the Ordinance, including the exempted quantities for classified dangerous goods and the penalty provisions under the Ordinance.

6. Following the cyanide spillage incident at Tai Po Road in late 1997, the Director of Fire Services has engaged a consultant to study the need to strengthen the control over the conveyance of dangerous goods by vehicles. At present, conveyance of dangerous goods of Category 1 (explosives), Category 2 (compressed gases) and Category 5 (flammable liquids) by vehicles are subject to licensing controls. The consultancy study identified the need to expand the licensing regime to cover conveyance of dangerous goods in all other Categories, implement a mandatory scheme to train and equip the drivers with the necessary knowledge and skills, and require the transmission of adequate information on dangerous goods across the conveyance chain.

7. The consultant's proposals were made the subject of a regulatory impact assessment commissioned by the Business and Services Promotion Unit of the Financial Secretary's Office. The assessment concluded that the proposed improvements to the licensing regime would be beneficial to the community and should not impose undue hardship on the trade in general.

The Proposal

8. Pursuant to the comprehensive review of the Ordinance, the public was consulted on the detailed proposals set out in a consultation
B document issued in March 1999 (Annex B). There is general support to incorporate the following proposals into the Ordinance and its subsidiary legislation -

(a) Subject to some minor variations, the coverage of controls of dangerous goods on land should be expanded from about 400 types under ten broad "Categories" of dangerous substances to some 1600 types under nine broad "Classes" in accordance with the IMDG scheme of classification.

(b) The IMDG Code should be followed strictly for controlling conveyance of dangerous goods on board a vessel in the waters of Hong Kong. Nevertheless, existing controls regarding diesel oil at sea, which is not classified as dangerous goods under the IMDG Code, should be maintained.

(c) The penalties for offences under the dangerous goods legislation should be strengthened to preserve the necessary deterrent effect which may have been eroded by inflation over time. Furthermore, heavier penalties should be imposed on repeated offenders.

(d) The Director of Fire Services and the Director of Marine should be empowered to issue codes of practice to promulgate detailed guidelines and safety practices to be followed by the trade in the handling of dangerous goods.

(e) The quantities of classified dangerous goods below which exemption from specified controls would be allowed should be brought up-to-date.

(f) The packaging, labelling and other requirements under the legislation should be revised in line with international standards.

(g) In addition to conveyance of dangerous goods in Categories 1, 2 and 5 (or proposed Classes 1, 2 and 3 following the IMDG Code) by vehicles, the licensing regime should be extended to cover conveyance of all other Classes of dangerous goods. A requirement for mandatory training of the vehicle drivers should also be introduced.

(h) A registration system for Class 1 dangerous goods (i.e. explosives and blasting agents) should be introduced in line with the control framework and legislative arrangements in our major trading partners such as UK, Canada and Australia.

9. The Bill contains specific provisions regarding items (a) to (d) in paragraph 8 above and empowering provisions for the remaining items, which will form the basis of further amendments to the subsidiary legislation pursuant to the passage of the Bill.

Implementation Timetable

10. To facilitate compliance by the trade, we propose that grace periods of not more than two years should be provided for the more prominent control measures encompassed in the amendment legislation. Therefore, provisions of the Bill will come into operation by phases with the different commencement days appointed by the Secretary for Security by notice in the Gazette.

THE BILL

11. **Clause 2** provides for some key definitions, e.g. “IMDG Code” and “UN Number” as references to the international standards.

12. **Clause 3** defines the application of the Ordinance only to the substances or articles contained in the Schedules and empowers the Secretary for Security to amend the Schedules.

13. **Clause 4** amends the regulation-making section to, among other things, empower the Director of Marine to grant exemption in respect of

shipping, and require drivers of dangerous goods vehicles to undertake proper training and consignors of dangerous goods to produce declarations.

14. **Clauses 4, 6, 9 and 10** increase the maximum fines of sanctions.

15. **Clause 5** empowers the Director of Fire Services and the Director of Marine to issue codes of practice.

16. **Clause 7** creates an exception to the marking and notice requirements to cope with practical needs.

17. **Clause 8** includes officers in the Marine Department to the list of officers authorized to take enforcement actions.

18. **Clause 11** provides for compliance with the IMDG Code as an alternative to complying with the requirements under the Ordinance.

19. **Clause 12** introduces two Schedules (with reference to the IMDG Code) setting out the various substances to which the Ordinance applies.

C 20. The existing provisions which are being amended are at Annex C.

LEGISLATIVE TIMETABLE

21. The legislative timetable is as follows

Publication in the Gazette	19 November 1999
First Reading and commencement of Second Reading debate	1 December 1999
Resumption of Second Reading debate, committee stage and Third Reading	To be notified

HUMAN RIGHTS IMPLICATIONS

22. The Department of Justice advises that the Bill is consistent with the human rights provisions of the Basic Law.

BINDING EFFECT OF THE LEGISLATION

23. The Bill will not affect the current binding effect of the Ordinance.

FINANCIAL AND STAFFING IMPLICATIONS

24. We have earmarked funds for nine additional posts at a cost of $7 million for the Fire Services Department and the Government Laboratory to strengthen inspection and enforcement of dangerous goods arising from the implementation of the legislative proposals. The Marine Department will redeploy its existing resources to strengthen control of dangerous goods on board arising from the proposals.

PUBLIC CONSULTATION

25. The Dangerous Goods Standing Committee was consulted and supported the proposals.

26. A public consultation exercise was conducted in March 1999. In general, the Provisional District Boards and the trade are in support of the proposed amendments.

PUBLICITY

27. A press release will be issued on 17 November 1999. A spokesman will be made available for answering media enquiries.

ENQUIRIES

28. For enquiries, please contact Mr David Wong, Principal Assistant Secretary for Security at 2810 3435.

Security Bureau
17 November 1999

LEGISLATIVE COUNCIL BRIEF

Dangerous Goods Ordinance
(Chapter 295)

DANGEROUS GOODS (AMENDMENT) BILL 1999: ANNEXES

Annex A	-	Dangerous Goods (Amendment) Bill 1999
Annex B	-	Proposed Amendments to the Dangerous Goods Ordinance Consultation Document
Annex C	-	Existing provisions of the Dangerous Goods Ordinance

Annex A

DANGEROUS GOODS (AMENDMENT) BILL 1999

CONTENTS

A BILL

To

Amend the Dangerous Goods Ordinance.

Enacted by the Legislative Council.

1. Short title and commencement

(1) This Ordinance may be cited as the Dangerous Goods (Amendment) Ordinance 1999.

(2) This Ordinance shall come into operation on a day to be appointed by the Secretary for Security by notice in the Gazette.

2. Interpretation

Section 2 of the Dangerous Goods Ordinance (Cap. 295) is amended -

(a) in the definition of "Dangerous goods", by repealing "goods or substances" and substituting "substances, materials or articles";

(b) by repealing the definition of "explosive" and substituting -

""explosive"（爆炸品）means -

(a) any solid or liquid substance or any mixture of solid or liquid substances, or both, which is -

(i) capable by chemical reaction in itself of

producing gas at such a temperature and pressure and at such a speed as could cause damage to surroundings; or

(ii) designed to produce an effect by heat, light, sound, gas or smoke, or a combination of these, as a result of non-detonative self-sustaining exothermic chemical reactions; or

(b) any article containing any substance or mixture referred to in paragraph (a);";

(c) by repealing the definition of "vessel" and substituting -

""vessel"（船隻）includes -

(a) any ship, junk, boat, dynamically supported craft, seaplane, or any other description of vessel used in

navigation; and

(b) any other description of vessel in Hong Kong or in the waters of Hong Kong not used in navigation or not constructed or adapted for use in navigation;";

(d) by adding -

""Class"（類）means a class of dangerous goods specified in one of the Schedules;

"IMDG Code"（《國際海運危險貨物守則》）means the International Maritime Dangerous Goods Code published by the International Maritime Organization, as amended or revised by the Organization from time to time;

"UN number"（聯合國編號）means the United Nations number assigned to any substance, material or article by the United Nations Committee of Experts on the Transport of Dangerous Goods, as amended or revised by the Committee from time to time;".

3. Application

Section 3 is amended -

(a) by renumbering it as section 3(1);

(b) in subsection (1), by repealing all the words from "This" to "section 5" and substituting "Subject to subsections (2) and (3), this Ordinance applies to the substances, materials or articles specified in Schedules 1 and 2 but this Ordinance only applies to the substances, materials or articles specified in Schedule 2 when they are on board a vessel";

(c) by adding -

"(2) Sections 6 to 11 do not apply to the substances, materials or articles specified in Class 9A in Schedule 1.

(3) Except as otherwise prescribed in this Ordinance or regulations made under this Ordinance, sections 6, 8, 9, 9A and 9B do not apply to the substances, materials or articles specified in Schedule 2.

(4) The Secretary for Security may, by regulation, amend any of the Schedules.".

4. Regulations

Section 5 is amended -

(a) in subsection (1) -

(i) by repealing paragraph (a);

(ii) in paragraph (b), by adding ", material" after "substance";

(iii) in paragraph (d), by repealing "storage," and substituting "handling, loading,

unloading, stowage, storage, carriage,";

(iv) in paragraph (e) -

(A) by adding ", placard, mark or sign" after "label";

(B) by adding ", freight container" after "case";

(v) in paragraph (h) -

(A) by adding "and declaration" after "information" where it twice appears;

(B) by adding "and other persons" after "public officers";

(vi) in paragraph (i), by adding "and warning signs" after "signals";

(vii) by adding -

"(ma) empowering the Director of Marine to grant an exemption from all or any of the provisions of a regulation relating to vessels, and such an exemption may be made -

(i) by regulation in respect of a class of cases; or

(ii) by order published in the Gazette in respect of a specific case;

(mb) the detention of any vessel in respect of which any contravention of a provision of this Ordinance or regulations made under this Ordinance is believed to have occurred;

(mc) prohibiting or controlling the employment of any person or class of persons in connection with the manufacture, loading, unloading, shipment, transhipment, storage, carriage, movement, sale or use of dangerous goods, for the purpose of ensuring proper standards are maintained in the course of any such activity;

(md) the imposition of duties on drivers of vehicles carrying dangerous goods;";

(b) in subsection (2), in the proviso, by repealing "of $25,000" and substituting "at level 6";

(c) by adding -

"(3) For the avoidance of doubt, an order made under subsection (1)(ma)(ii) is not

subsidiary legislation.".

5. Section added

The following is added before Part II -

"5A. Codes of practice

(1) In this section, "Director"（處長）means the Director of Fire Services or the Director of Marine, as the case may be.

(2) For the purpose of providing practical guidance in respect of any one or more of the requirements of this Ordinance or of regulations made under this Ordinance, the Director may issue such codes of practice (whether prepared by the Director or not) as the Director considers appropriate.

(3) The Director may amend or revoke a code of practice issued by him under subsection (2).

(4) Where the Director exercises a power under subsection (2) or (3), he shall, as soon as may be reasonably practicable, publish notice thereof in the Gazette and the notice shall be in such form as the Director considers appropriate.

(5) A failure by any person to observe a provision of such a code shall not of itself cause him to incur any criminal liability, but where -

(a) in any criminal proceedings the defendant is alleged to have committed an offence either -

(i) by reason of a contravention of or a

failure to comply with, whether by act or omission, this Ordinance or regulations made under this Ordinance; or

(ii) by reason of a failure to discharge or perform a duty imposed by this Ordinance or such regulations; and

(b) the matter to which the alleged contravention or failure relates is one to which, in the opinion of the court, such a code relates,

then subsection (6) shall apply as regards the proceedings.

(6) In any criminal proceedings to which this subsection applies, the following namely -

(a) compliance with a provision of a code found by the court to be relevant to a matter to which a contravention or failure alleged in the proceedings relates;

(b) a contravention or failure to comply with, whether by act or omission, any such provision so found,

may be relied on by any party to the proceedings as tending to establish or to negative any liability which is in question in the proceedings.

(7) In any criminal proceedings, any document which purports to be a copy of a particular code shall, in the absence of evidence to the contrary, be regarded by the court as being a true copy of that code.".

6. Penalty for breach of licence

Section 9B is amended by repealing everything after "conviction" and substituting -

"-

(a) for a first offence, by a fine at level 5 and imprisonment not exceeding 1 month;

(b) for a subsequent offence, by a fine at level 6 and imprisonment not exceeding 3 months.".

7. Marking of dangerous goods and giving of notice of their character

Section 10 is amended by repealing "No" and substituting "Except as otherwise provided in this Ordinance or regulations made under this Ordinance, no".

8. Power of entry, etc.

Section 12(1) is amended by adding "and any officer of the Marine Department not below the rank of Marine Inspector II" after "Commissioner of Mines,".

9. Regulations for management of depots

Section 13E(2) is amended by repealing "of $25,000" and substituting "at level 6".

10. Offences and penalties

Section 14 is amended -

(a) in subsection (1), by repealing all the words from

"Any" to "months" and substituting -

"Any person who contravenes -

(a) section 6 shall be guilty of an offence and shall be liable -

(i) for a first offence, to a fine at level 6 and imprisonment for 6 months;

(ii) for a subsequent offence, to a fine of $200,000 and imprisonment for 12 months;

(b) section 7, 8 or 10 shall be guilty of an offence and shall be liable to a fine at level 6 and imprisonment for 6 months";

(b) in subsection (2), by repealing "of $1,000" and substituting "at level 2";

(c) in subsection (3), by repealing "of $20,000" and substituting "at level 6".

11. Section added

The following is added -

"19A. Application of IMDG Code

(1) Where dangerous goods are being carried, or

intended to be carried, on board a vessel and such goods are packed, marked and labelled in accordance with the IMDG Code, they shall be deemed to comply with the requirements of any regulations made under this Ordinance in respect of the packing, marking and labelling of such goods for conveyance by vessels or by vehicles transporting them to or from any berth where the vessel on which they have been, or will be, conveyed is located.

(2) Where dangerous goods are passing through Hong Kong as part of an international journey and such goods are packed, marked and labelled in accordance with the IMDG Code, they shall be deemed to comply with the requirements of any regulations made under this Ordinance in respect of the packing, marking and labelling of such goods for conveyance by vessels or by vehicles across the territory.".

12. Schedules added

The following are added -

"SCHEDULE 1 [ss. 2 & 3 & Sch. 2]

CLASS 1

EXPLOSIVES AND BLASTING AGENTS

Group 1 - Gunpowder

In this group -

"gunpowder"（火藥）means gunpowder composed essentially of a

mixture of sulphur, saltpetre and carbon.

Group 2 - Nitrate mixture

In this group -

"nitrate mixture"（硝酸鹽混合物）means -

(a) any preparation, other than gunpowder as defined in group 1, formed by the mechanical mixture of a nitrate with any form of carbon or with any carbonaceous substance not possessed of explosive properties, whether sulphur is or is not added to such preparation, and whether such preparation is or is not mechanically mixed with any other non-explosive substance; and

(b) any explosive containing a perchlorate and which is not included in group 3, 4 or 5.

Group 3 - Nitro-compound

In this group -

"nitro-compound"（硝基化合物）means any chemical compound possessed of explosive properties or capable of combining with metals to form an explosive compound, which is produced by the chemical action of nitric acid (whether mixed or not with sulphuric acid) or of a

nitrate mixed with sulphuric acid upon any carbonaceous substance, whether such compound is mechanically mixed with other substances or not.

Group 4 - Chlorate mixture

In this group -

"chlorate mixture"（氯酸鹽混合物）means any explosive containing a chlorate.

Group 5 - Fulminate

In this group -

"fulminate"（雷酸鹽）means any chemical compound or mechanical mixture, whether included in the foregoing groups or not, which, from its great susceptibility to detonation, is suitable for employment in percussion caps or any other appliances for developing detonation, or which, from its extreme sensibility to explosion and from its great instability (that is to say, readiness to undergo decomposition from very slight exciting causes), is especially dangerous.

Group 6 - Ammunition

In this group -

"ammunition"（彈藥）means an explosive of any of the foregoing groups when enclosed in any case or contrivance, or otherwise adapted or prepared so as to form a cartridge or charge for small arms, cannon, or any other weapon, or for blasting, or to form any safety or other fuse for blasting, or for shells, or to form any tube for firing explosives, or to form a percussion cap, a detonator, a fog signal, a shell, a torpedo, a war rocket, or other contrivance other than firework;

"safety fuse"（保險信管）means a fuse for blasting which burns and does not explode, and which does not contain its own means of ignition, and which is of such strength and construction and contains an explosive in such quantity that the burning of such fuse will not communicate laterally with other like fuses.

Group 7 - Fireworks

In this group -

"firework"（爆竹煙花）means firework composition and manufactured fireworks;

"firework composition"（爆竹煙花合成物）means any composition used for the manufacture of fireworks which is not either wholly or in part a substance, mixture of substances or composition included in any of the foregoing groups;

"manufactured fireworks"（爆竹煙花製品）means any explosive of any of the foregoing groups, and any firework composition, when such explosive or composition is enclosed in any case or contrivance, or is otherwise manufactured so as to form a squib, cracker, serpent, rocket (other than a war rocket), maroon, lance, whell, Chinese fire, Roman candle, or other article specially adapted for the production of pyrotechnic effect, or pyrotechnic signal, or sound signal, but does not include a substantially constructed and hermetically closed metal case containing not more than 450 g of coloured firework composition of such a nature as not to be liable to spontaneous ignition.

Group 8 - Other

In this group -

"compressed gas device"（壓縮氣體裝置）means a device capable of producing an effect similar to an explosive effect by the rapid expansion of a compressed gas specified in Class 2.

This group includes a Cardox shell device and any other compressed gas device used or manufactured for use as a blasting agent.

CLASS 2

GASES

Proper Shipping name	UN number
1,1,1,2-Tetrafluoroethane	3159
1,1,1-Trifluoroethane	2035
1,1-Difluoroethane	1030
1,1-difluoroethylene	1959
1,2-Dichloro-1, 1, 2, 2-Tetrafluoroethane	1958
1-Chloro-1,1-Difluoroethane	2517
1-Chloro-1,2,2,2-Tetrafluoroethane	1021
1-Chloro-2,2,2-Trifluoroethane	1983
2,2-Dimethylpropane	2044
Acetylene, Dissolved	1001
Aerosols	1950
Air, Compressed	1002
Air, Refrigerated Liquid	1003
Ammonia Solution, relative density less than 0.880 at 15℃ in water, with more than 50% ammonia	3318
Ammonia Solution, relative density less than 0.880 at 15℃ in water, with more than 35% but not more than 50% ammonia	2073
Ammonia, Anhydrous	1005
Argon, Compressed	1006
Argon, Refrigerated Liquid	1951

Arsine	2188
Articles, Pressurized, Pneumatic or Hydraulic (containing non-flammable gas)	3164
Boron Trichloride	1741
Boron Trifluoride, Compressed	1008
Bromine Chloride	2901
Bromotrifluoroethylene	2419
Bromotrifluoromethane	1009
Butadienes, Inhibited	1010
Carbon Dioxide	1013
Carbon Dioxide and Nitrous Oxide, Mixture	1015
Carbon Dioxide and Oxygen, Mixture, Compressed	1014
Carbon Dioxide, Refrigerated Liquid	2187
Carbon Monoxide and Hydrogen Mixture, Compressed	2600
Carbonyl Fluoride, Compressed	2417
Carbon Monoxide, Compressed	1016
Carbonyl Sulphide	2204
Chlorine	1017
Chlorine Pentafluoride	2548
Chlorine Trifluoride	1749
Chlorodifluorobromomethane	1974
Chlorodifluoromethane	1018
Chlorodifluoromethane and Chloropentafluoroethane Mixture with a fixed boiling point, containing about 49% chlorodifluoromethane	1973
Chloropentafluoroethane	1020

Chloropicrin and Methylbromide, Mixture	1581
Chloropicrin and Methylchloride, Mixture	1582
Chlorotrifluoromethane	1022
Chlorotrifluoromethane and Trifluoromethane, Azeotropic Mixture, with approximately 60% chlorotrifluoromethane	2599
Coal Gas, Compressed	1023
Compressed Gas, Flammable, N.O.S.	1954
Compressed Gas, N.O.S.	1956
Compressed Gas, Oxidizing, N.O.S.	3156
Compressed Gas, Toxic, Corrosive, N.O.S.	3304
Compressed Gas, Toxic, Flammable, Corrosive, N.O.S.	3305
Compressed Gas, Toxic, Flammable, N.O.S.	1953
Compressed Gas, Toxic, N.O.S.	1955
Compressed Gas, Toxic, Oxidizing, Corrosive, N.O.S.	3306
Compressed Gas, Toxic, Oxidizing, N.O.S.	3303
Cyanogen	1026
Cyanogen Chloride, Inhibited	1589
Cyclobutane	2601
Cyclopropane	1027
Deuterium, Compressed	1957
Devices, Small, Hydrocarbon Gas Powered, or Hydrocarbon Gas Refills for Small Devices, with release device	3150

Diborane, Compressed	1911
Dichlorodifluoromethane	1028
Dichlorodifluoromethane and Difluoroethane, Azeotropic Mixture, with approximately 74% dichlorodifluoromethane	2602
Dichlorofluoromethane	1029
Dichlorosilane	2189
Difluoromethane	3252
Dimethyl Ether	1033
Dimethylamine, Anhydrous	1032
Dinitrogen Tetroxide	1067
Ethane	1035
Ethane, Refrigerated Liquid	1961
Ethyl Chloride	1037
Ethyl Fluoride	2453
Ethyl Methyl Ether	1039
Ethylacetylene, Inhibited	2452
Ethylamine	1036
Ethylene Oxide and Carbon Dioxide Mixture, with more than 87% ethylene oxide	3300
Ethylene Oxide and Carbon Dioxide Mixture, with more than 9% but not more than 87% ethylene oxide	1041
Ethylene Oxide and Carbon Dioxide Mixture, with not more than 9% ethylene oxide	1952
Ethylene Oxide and Chlorotetrafluoroethane	3297

Mixture, with not more than 8.8% ethylene oxide	
Ethylene Oxide and Dichlorodifluoromethane Mixture, with not more than 12.5% ethylene oxide	3070
Ethylene Oxide and Pentafluoroethane Mixture, with not more than 7.9% ethylene oxide	3298
Ethylene Oxide and Tetrafluoroethane Mixture, with not more than 5.6% ethylene oxide	3299
Ethylene Oxide or Ethylene Oxide with Nitrogen up to a total pressure of 1 MPa (10 bar) at 50℃	1040
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	3138
Ethylene, Compressed	1962
Ethylene, Refrigerated Liquid	1038
Fertilizer Ammoniating Solution, containing free ammonia in excess of 35% ammonia	1043
Fire Extinguishers, containing compressed or liquefied gas	1044
Fluorine, Compressed	1045
Gas Sample, Non-pressurized, Flammable, N.O.S., not refrigerated liquid	3167
Gas Sample, Non-pressurized, Toxic, Flammable, N.O.S., not refrigerated liquid	3168
Gas Sample, Non-pressurized, Toxic, N.O.S., not	3169

refrigerated liquid	
Gas, Refrigerated Liquid, Flammable, N.O.S.	3312
Gas, Refrigerated Liquid, N.O.S.	3158
Gas, Refrigerated Liquid, Oxidizing, N.O.S.	3311
Germane	2192
Helium, Compressed	1046
Helium, Refrigerated Liquid	1963
Heptafluoropropane	3296
Hexaethyl Tetraphosphate and Compressed Gas, Mixture	1612
Hexafluoroacetone	2420
Hexafluoroethane, Compressed	2193
Hexafluoropropylene	1858
Hydrocarbon Gas Mixture, Liquefied, N.O.S.	1965
Hydrocarbon Gas, Mixture, Compressed, N.O.S.	1964
Hydrogen Bromide, Anhydrous	1048
Hydrogen Chloride, Anhydrous	1050
Hydrogen Iodide, Anhydrous	2197
Hydrogen Selenide, Anhydrous	2202
Hydrogen Sulphide	1053
Hydrogen and Methane Mixtures, Compressed	2034
Hydrogen, Compressed	1049
Hydrogen, Refrigerated Liquid	1966
Insecticide Gas, N.O.S.	1968
Insecticide Gas, Toxic, N.O.S.	1967
Krypton, Compressed	1056

Krypton, Refrigerated Liquid	1970
Liquefied Gas, Flammable, N.O.S.	3161
Liquefied Gas, N.O.S.	3163
Liquefied Gas, Oxidizing, N.O.S.	3157
Liquefied Gas, Toxic, Corrosive, N.O.S.	3308
Liquefied Gas, Toxic, Flammable, Corrosive, N.O.S.	3309
Liquefied Gas, Toxic, Flammable, N.O.S.	3160
Liquefied Gas, Toxic, N.O.S.	3162
Liquefied Gas, Toxic, Oxidizing, Corrosive, N.O.S.	3310
Liquefied Gas, Toxic, Oxidizing, N.O.S.	3307
Liquefied Gases, non-flammable, charged with Nitrogen, Carbon Dioxide, or Air	1058
Methyl Bromide	1062
Methyl Chloride	1063
Methyl Chloride and Methylene Chloride, Mixture	1912
Methyl Fluoride	2454
Methyl Mercaptan	1064
Methylacetylene and Propadiene Mixture, Stabilized	1060
Methylamine, Anhydrous	1061
Methylchlorosilane	2534
Neon, Compressed	1065
Neon, Refrigerated Liquid	1913
Nitric Oxide and Dinitrogen Tetroxide Mixture	1975

Nitric Oxide, Compressed	1660
Nitrogen Trifluoride, Compressed	2451
Nitrogen Trioxide	2421
Nitrogen, Compressed	1066
Nitrogen, Refrigerated Liquid	1977
Nitrosyl Chloride	1069
Nitrous Oxide	1070
Nitrous Oxide, Refrigerated Liquid	2201
Octafluorobut-2-ene	2422
Octafluorocyclobutane	1976
Octafluoropropane	2424
Oxygen Difluoride, Compressed	2190
Oxygen, Compressed	1072
Oxygen, Refrigerated Liquid	1073
Pentafluoroethane	3220
Perchloryl Fluoride	3083
Perfluoro (Ethyl Vinyl Ether)	3154
Perfluoro (Methyl Vinyl Ether)	3153
Phosgene	1076
Phosphine	2199
Phosphorus Pentafluoride, Compressed	2198
Propadiene, Inhibited	2200
Rare Gases and Nitrogen, Mixture, Compressed	1981
Rare Gases and Oxygen, Mixture, Compressed	1980
Rare Gases, Mixture, Compressed	1979
Refrigerant Gas, N.O.S.	1078

Selenium Hexafluoride	2194
Silane, Compressed	2203
Silicon Tetrafluoride, Compressed	1859
Stibine	2676
Sulphur Dioxide	1079
Sulphur Hexafluoride	1080
Sulphur Tetrafluoride	2418
Sulphuryl Fluoride	2191
Tellurium Hexafluoride	2195
Tetrafluoroethylene, Inhibited	1081
Tetrafluoromethane, Compressed	1982
Trifluoroacetyl Chloride	3057
Trifluorochloroethylene, Inhibited	1082
Trifluoromethane	1984
Trifluoromethane, Refrigerated Liquid	3136
Trimethylamine, Anhydrous	1083
Tungsten Hexafluoride	2196
Vinyl Bromide, Inhibited	1085
Vinyl Chloride, Inhibited or Stabilized	1086
Vinyl Fluoride, Inhibited	1860
Vinyl Methyl Ether, Inhibited	1087
Xenon, Compressed	2036
Xenon, Refrigerated Liquid	2591

CLASS 3

FLAMMABLE LIQUIDS

Proper Shipping name	UN number
Class 3.1 - Low Flashpoint Group of Liquids Having a Flashpoint Below - 18℃, Closed Cup Test	
1,1-Dimethoxyethane	2377
1-Chloropropane	1278
1-Hexene	2370
1-Pentene	1108
2,3-Dimethylbutane	2457
2-Chloropropane	2356
2-Chloropropene	2456
2-Methyl-1-Butene	2459
2-Methyl-2-Butene	2460
2-Methylfuran	2301
3-Methyl-1-Butene	2561
Acetal	1088
Acetaldehyde	1089
Acetone	1090
Adhesives, containing a flammable liquid	1133
Alcoholates Solution, N.O.S., in alcohol	3274
Alcohols, Flammable, Toxic, N.O.S.	1986
Aldehydes, Flammable, Toxic, N.O.S.	1988
Aldehydes, N.O.S.	1989
Allyl Chloride	1100

Amines, Flammable, Corrosive, N.O.S. or Polyamines, Flammable, Corrosive, N.O.S.	2733
Amyl Nitrite	1113
Bicyclo (2,2,1) Hepta-2,5-Diene, Inhibited	2251
Butyl Mercaptans	2347
Carbon Disulphide	1131
Chlorobutanes	1127
Chloroprene, Inhibited	1991
Coating Solution (includes surface treatments or coatings used for industrial or other purposes such as vehicle undercoating, drum or barrel lining)	1139
Crotonylene	1144
Cyclohexane	1145
Cyclohexene	2256
Cyclopentane	1146
Cyclopentene	2246
Di-normal-Propyl Ether	2384
Diethoxymethane	2373
Diethyl Ether	1155
Diethylamine	1154
Diisopropyl Ether	1159
Dimethyl Sulphide	1164
Dimethylamine, Aqueous Solution	1160
Divinyl Ether, Inhibited	1167
Ethers, N.O.S.	3271

Ethyl Formate	1190
Ethyl Mercaptan	2363
Ethyl Nitrite, Solution	1194
Ethyl Propyl Ethers	2615
Ethylamine, Aqueous Solution concentration up to 70%	2270
Ethylene Oxide And Propylene Oxide Mixtures, not more than 30% ethylene oxide	2983
Flammable Liquid, Corrosive, N.O.S.	2924
Flammable Liquid, N.O.S.	1993
Flammable Liquid, Toxic, Corrosive, N.O.S.	3286
Flammable Liquid, Toxic, N.O.S.	1992
Fuel, Aviation, Turbine Engine	1863
Furan	2389
Hexadienes	2458
Hexanes	1208
Hydrocarbons, Liquid, N.O.S.	3295
Isobutyraldehyde	2045
Isocyanates, Flammable, Toxic, N.O.S. or Isocyanate Solution, Flammable, Toxic, N.O.S.	2478
Isoheptenes	2287
Isohexenes	2288
Isopentenes	2371
Isoprene, Inhibited	1218
Isopropylamine	1221
Medicine, Liquid, Flammable, Toxic, N.O.S.	3248

Mercaptans, Liquid, Flammable, Toxic, N.O.S. or Mercaptan Mixture, Liquid, Flammable, Toxic, N.O.S.	1228
Methyl Formate	1243
Methyl Propyl Ether	2612
Methyl tertiary-Butyl Ether	2398
Methylal	1234
Methylpentadienes	2461
Motor Spirit or Gasoline or Petrol	1203
Nitriles, Flammable, Toxic, N.O.S.	3273
Nitrocellulose Solution, Flammable, with not more than 12.6% nitrogen, by dry mass, and not more than 55% nitrocellulose	2059
Paint (including paint, Lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base)	1263
Paint Related Material (including paint thinning or reducing compound)	1263
Pentanes, liquid	1265
Petroleum Crude Oil	1267
Petroleum Distillates, N.O.S. or Petroleum Products, N.O.S.	1268
Printing Ink, flammable	1210
Propanethiols	2402
Propionaldehyde	1275
Propylamine	1277

Propylene Oxide	1280
Resin Solution, flammable	1866
Tetrahydrofuran	2056
Tetramethylsilane	2749
Trimethylamine, Aqueous Solution, 30% to 50% trimethylamine, by mass	1297
Trimethylchlorosilane	1298
Vinyl Ethyl Ether, Inhibited	1302
Vinylidene Chloride, Inhibited	1303
Zirconium, Suspended In a Flammable Liquid	1308

Class 3.2 - Low Flashpoint Group of Liquids Having a Flashpoint of -18℃ Up To But Not Including 23℃, Closed Cup Test

1,1-Dichloroethane	2362
1,1-Dimethoxyethane	2377
1,2,3,6-Tetrahydropyridine or 1,2,5,6-Tetrahydropyridine	2410
1,2-Butylene Oxide, Stabilized	3022
1,2-Di (Dimethylamino) Ethane	2372
1,2-Dichloroethylene	1150
1,2-Dichloropropane	1279
1,2-Dimethoxyethane	2252
1,3-Dimethylbutylamine	2379
1-Bromobutane	1126
1-Ethylpiperidine	2386

1-Methylpiperidine	2399
2,3-Dihydropyran	2376
2-Bromobutane	2339
2-Bromoethyl Ethyl Ether	2340
2-Bromopentane	2343
2-Ethylbutyraldehyde	1178
2-Iodobutane	2390
3,3-Diethoxypropene	2374
3-Bromopropyne	2345
3-Methylbutan-2-One	2397
4-Methylmorpholine	2535
Acetal	1088
Acetone Oils	1091
Acetone Solutions	1090
Acetonitrile	1648
Acetyl Chloride	1717
Acrylonitrile, Inhibited	1093
Adhesives, containing a flammable liquid	1133
Alcoholates Solution, N.O.S., in alcohol	3274
Alcohols, Flammable Toxic, N.O.S.	1986
Alcohols, N.O.S.	1987
Aldehydes, Flammable, Toxic, N.O.S.	1988
Aldehydes, N.O.S.	1989
Allyl Acetate	2333
Allyl Bromide	1099
Allyl Ethyl Ether	2335

Allyl Formate	2336
Allyl Iodide	1723
Amines, Flammable, Corrosive, N.O.S. or Polyamines, Flammable, Corrosive, N.O.S.	2733
Amyl Alcohols	1105
Amyl Chlorides	1107
Amyl Mercaptans	1111
Amyl Nitrite	1113
Amylamines	1106
Arsenical Pesticide, Liquid, Flammable, Toxic	2760
Benzene	1114
Benzoic Derivative Pesticide, Liquid, Flammable, Toxic	2770
Benzotrifluoride	2338
Bicyclo (2,2,1) Hepta-2,5-Diene, Inhibited	2251
Bipyridilium Pesticide, Liquid, Flammable, Toxic	2782
Bromomethylpropanes	2342
Bromopropanes	2344
Butanedione	2346
Butanols	1120
Butyl Acetates	1123
Butyl Mercaptans	2347
Butyl Nitrites	2351
Butyl Vinyl Ether, Inhibited	2352
Butyraldehyde	1129
Butyronitrile	2411

Butyryl Chloride	2353
Carbamate Pesticide, Liquid, Flammable, Toxic	2758
Chlorobutanes	1127
Chloromethyl Ethyl Ether	2354
Chlorosilanes, Flammable, Corrosive, N.O.S.	2985
Coal Tar Distillates, Flammable	1136
Coating Solution (includes surface treatments or coatings used for industrial or other purposes such as vehicle under-coating, drum or barrel lining)	1139
Copper-Based Pesticide, Liquid, Flammable, Toxic	2776
Coumarin Derivative Pesticide, Liquid, Flammable, Toxic	3024
Cycloheptane	2241
Cycloheptatriene	2603
Cycloheptene	2242
Cyclohexene	2256
Cyclooctatetraene	2358
Di-normal-Propyl Ether	2384
Diacetone Alcohol	1148
Diallyl Ether	2360
Diallylamine	2359
Dichloropropenes	2047
Diethoxymethane	2373
Diethyl Ketone	1156
Diethyl Sulphide	2375

Diisobutylenes, Isomeric Compounds	2050
Diisopropylamine	1158
Dimethyl Carbonate	1161
Dimethyl Disulphide	2381
Dimethylamine, Aqueous Solution	1160
Dimethylcyclohexanes	2263
Dimethyldichlorosilane	1162
Dimethyldiethoxysilane	2380
Dimethyldioxanes	2707
Dioxane	1165
Dioxolane	1166
Dipropylamine	2383
Dithiocarbamate Pesticide, Liquid, Flammable, Toxic	2772
Esters, N.O.S.	3272
Ethanol or Ethanol Solutions	1170
Ethers, N.O.S.	3271
Ethyl Acetate	1173
Ethyl Acrylate, Inhibited	1917
Ethyl Borate	1176
Ethyl Butyl Ether	1179
Ethyl Crotonate	1862
Ethyl Isobutyrate	2385
Ethyl Isocyanate	2481
Ethyl Methacrylate, Inhibited	2277
Ethyl Methyl Ketone	1193

Ethyl Nitrite, Solution	1194
Ethyl Propionate	1195
Ethylamine, Aqueous Solution concentration not less than 50% but not more than 70% ethylamine	2270
Ethylbenzene	1175
Ethylene Dichloride	1184
Ethyltrichlorosilane	1196
Extracts, Aromatic, Liquid	1169
Extracts, Flavouring, Liquid	1197
Flammable Liquid, Corrosive, N.O.S.	2924
Flammable Liquid, N.O.S.	1993
Flammable Liquid, Toxic, Corrosive, N.O.S.	3286
Flammable Liquid, Toxic, N.O.S.	1992
Fluorobenzene	2387
Fluorotoluenes (ortho-, meta-, para-)	2388
Fuel, Aviation, Turbine Engine, Aviation Gasoline	1863
Fusel Oil	1201
Heptanes	1206
Hexadienes	2458
Hexamethyleneimine	2493
Hydrocarbons, Liquid, N.O.S.	3295
Iodomethylpropanes	2391
Isobutyl Acetate	1213
Isobutyl Formate	2393
Isobutyl Isocyanate	2486

Isobutyl Propionate	2394
Isobutylamine	1214
Isobutyronitrile	2284
Isobutyryl Chloride	2395
Isocyanates, Flammable, Toxic, N.O.S. or Isocyanate Solution, Flammable, Toxic, N.O.S.	2478
Isoheptenes	2287
Isooctenes	1216
Isopropanol	1219
Isopropenyl Acetate	2403
Isopropyl Acetate	1220
Isopropyl Isobutyrate	2406
Isopropyl Isocyanate	2483
Isopropyl Nitrate	1222
Isopropyl Propionate	2409
Ketones, Liquid, N.O.S.	1224
Medicine, Liquid, Flammable, Toxic, N.O.S.	3248
Mercaptans, Liquid, Flammable, Toxic, N.O.S. or Mercaptan Mixture, Liquid, Flammable, Toxic, N.O.S.	1228
Mercury-Based Pesticide, Liquid, Flammable, Toxic	2778
Methacrylaldehyde, Inhibited	2396
Methacrylonitrile, Inhibited	3079
Methanol	1230
Methoxymethyl Isocyanate	2605
Methyl Acetate	1231

Methyl Acrylate, Inhibited	1919
Methyl Butyrate	1237
Methyl Isobutyl Ketone	1245
Methyl Isopropenyl Ketone, Inhibited	1246
Methyl Isovalerate	2400
Methyl Methacrylate, Monomer, Inhibited	1247
Methyl Propionate	1248
Methyl Propyl Ketone	1249
Methylallyl Chloride	2554
Methylamine, Aqueous Solution	1235
Methylcyclohexane	2296
Methylcyclopentane	2298
Methyltetrahydrofuran	2536
Methyltrichlorosilane	1250
N, N-Dimethylpropylamine	2266
N- Methylbutylamine	2945
Nitriles, Flammable, Toxic, N.O.S.	3273
Nitrocellulose Solution, Flammable, with not more than 12.6% nitrogen, by dry mass, and not more than 55% nitrocellulose	2059
Nitroglycerin Solution in Alcohol, with not more than 1% nitroglycerin	1204
Nitroglycerin Solution in Alcohol, with more than 1% but not more than 5% nitroglycerin	3064
Octadiene	2309
Octanes	1262

Organochlorine Pesticide, Liquid, Flammable, Toxic	2762
Organophosphorous Pesticide, Liquid, Flammable, Toxic	2784
Organotin Pesticide, Liquid, Flammable, Toxic	2787
Paint (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base)	1263
Paint Related Material (including paint thinning or reducing compound)	1263
Perfumery Products, flammable liquid	1266
Pesticide, Liquid, Flammable, Toxic, N.O.S.	3021
Petroleum Crude Oil	1267
Petroleum Distillates, N.O.S. or Petroleum Products, N.O.S.	1268
Phenoxy Pesticide, Liquid, Flammable, Toxic	2766
Phenyl Urea Pesticide, Liquid, Flammable, Toxic	2768
Phthalimide Derivative Pesticide, Liquid, Flammable, Toxic	2774
Piperidine	2401
Polyester Resin Kit	3269
Printing Ink, flammable	1210
Propionitrile	2404
Propionyl Chloride	1815
Propyl Formates	1281
Propyleneimine, Inhibited	1921

Pyridine	1282
Pyrrolidine	1922
Resin Solution, flammable	1866
Rosin Oil	1286
Rubber Solution	1287
Shale Oil	1288
Sodium Methylate, Solutions in alcohols	1289
Substituted Nitrophenol Pesticide, Liquid, Flammable, Toxic	2780
Tars, Liquid	1999
Tetrahydrofuran	2056
Tetrahydrothiophene	2412
Thioacetic Acid	2436
Thiophene	2414
Tinctures, Medicinal	1293
Toluene	1294
Triazine Pesticide, Liquid, Flammable, Toxic	2764
Triethylamine	1296
Triisopropyl Borate	2616
Trimethyl Borate	2416
Trimethylamine Aqueous Solution, not more than 30% trimethylamine, by mass	1297
Tripropylene	2057
Turpentine Substitute; White Spirit	1300
Valeraldehydes	2058
Vinyl Acetate, Inhibited	1301

Vinyl Butyrate, Inhibited	2838
Vinyl Isobutyl Ether, Inhibited	1304
Vinyltrichlorosilane, Inhibited	1305
Wood Preservatives, Liquid	1306
Xylenes	1307
Zirconium, Suspended in a flammable Liquid	1308
alpha-Methylvaleraldehyde	2367
normal-Butyl Formate	1128
normal-Butyl Methyl Ether	2350
normal-Butylamine	1125
normal-Heptene	2278
normal-Propanol	1274
normal-Propyl Acetate	1276
normal-Propyl Nitrate	1865

Class 3.3 - High Flashpoint Group of Liquids Having a Flashpoint of 23℃ Up To, And Including 61℃, Closed Cup Test

1,2,3,6-Tetrahydrobenzaldehyde	2498
1,2-Epoxy-3-Ethoxypropane	2752
1,3,5-Trimethylbenzene	2325
1-Bromo-3-Methylbutane	2341
1-Chloroheptane	----
1-Chlorohexane	----
1-Methoxy-2-Propanol	3092
2-Dimethylaminoacetonitrile	2378
2-Ethylbutanol	2275

2-Ethylbutyl Acetate	1177
2-Ethylhexylamine	2276
2-Methylpentan-2-ol	2560
3-(Diethylamino)-Propylamine	2684
4-Methoxy-4-Methyl-Pentan-2-one	2293
5-Methylhexan-2-one	2302
Acetyl Methyl Carbinol	2621
Acrolein Dimer, Stabilized	2607
Adhesives, containing a flammable liquid	1133
Alcoholic Beverages	3065
Alcohols, Flammable, Toxic, N.O.S.	1986
Alcohols, N.O.S.	1987
Aldehydes, Flammable, Toxic, N.O.S.	1988
Aldehydes, N.O.S.	1989
Allyl Glycidyl Ether	2219
Amines, Flammable, Corrosive, N.O.S. or Polyamines, Flammable, Corrosive, N.O.S.	2733
Amyl Acetates	1104
Amyl Alcohols	1105
Amyl Butyrates	2620
Amyl Formates	1109
Amyl Nitrates	1112
Amylamines	1106
Anisole	2222
Bromobenzene	2514
Butanols	1120

Butyl Acetates	1123
Butyl Acrylates, Inhibited	2348
Butyl Nitrites	2351
Butyl Propionates	1914
Butylbenzenes	2709
Butyraldoxime	2840
Camphor Oil	1130
Chlorobenzene	1134
Chlorobenzotrifluorides (ortho-, meta-, para-)	2234
Chlorotoluenes (ortho-, meta-, para-)	2238
Coal Tar Distillates, Flammable	1136
Coating Solution (includes surface treatments or coatings used for industrial or other purposes such as vehicle under-coating, drum or barrel lining)	1139
Cyclohexanone	1915
Cyclohexyl Acetate	2243
Cyclohexyl Mercaptan	3054
Cyclooctadienes	2520
Cyclopentanol	2244
Cyclopentanone	2245
Cymenes (ortho-, meta-, para-)	2046
Decahydronaphthalenes (cis-, trans-)	1147
Di-normal-Amylamine	2841
Diacetone Alcohol	1148
Dibutyl Ethers	1149

Dichloropentanes	1152
Dichloropropenes	2047
Dicyclopentadiene	2048
Diethyl Carbonate	2366
Diethylbenzenes (ortho-, meta-, para-)	2049
Diisobutyl Ketone	1157
Diisobutylamine	2361
Dimethyldioxanes	2707
Dipentene	2052
Dipropyl Ketone	2710
Elevated Temperature Liquid, Flammable, N.O.S., with flashpoint above 61℃ c.c., at or above its flashpoint	3256
Esters, N.O.S.	3272
Ethanol or Ethanol Solutions	1170
Ethers, N.O.S.	3271
Ethyl 2-Chloropropionate	2935
Ethyl Amyl Ketones	2271
Ethyl Butyrate	1180
Ethyl Lactate	1192
Ethyl Orthoformate	2524
Ethylene Glycol Diethyl Ether or 1,2-Diethoxyethane	1153
Ethylene Glycol Monoethyl Ether	1171
Ethylene Glycol Monoethyl Ether Acetate	1172
Ethylene Glycol Monomethyl Ether	1188

Ethylene Glycol Monomethyl Ether Acetate	1189
Ethylhexaldehydes	1191
Extracts, Aromatic, Liquid	1169
Extracts, Flavouring, Liquid	1197
Flammable Liquid, Corrosive, N.O.S.	2924
Flammable Liquid, N.O.S.	1993
Flammable Liquid, Toxic, N.O.S.	1992
Formaldehyde Solution, Flammable	1198
Fuel, Aviation, Turbine Engine	1863
Furfurylamine	2526
Fusel Oil	1201
Gas Oil or Diesel Fuel or Heating Oil, Light	1202
Glycidaldehyde	2622
Hexanols	2282
Hydrocarbons, Liquid, N.O.S.	3295
Iodopropanes	2392
Isobutanol	1212
Isobutyl Acrylate, Inhibited	2527
Isobutyl Isobutyrate	2528
Isobutyl Methacrylate, Inhibited	2283
Isobutyric Acid	2529
Isobutyric Anhydride	2530
Isocyanates, Flammable, Toxic, N.O.S. or Isocyanate Solution, Flammable, Toxic, N.O.S.	2478
Isopropenylbenzene	2303
Isopropyl 2-Chloropropionate	2934

Isopropyl Butyrate	2405
Isopropyl Chloroacetate	2947
Isopropylbenzene	1918
Kerosene	1223
Ketones, Liquid, N.O.S.	1224
Medicine, Liquid, Flammable, Toxic, N.O.S.	3248
Mercaptans, Liquid, Flammable, Toxic, N.O.S. or Mercaptan Mixture, Liquid, Flammable, Toxic, N.O.S.	1228
Mesityl Oxide	1229
Methallyl Alcohol	2614
Methyl 2-Chloropropionate	2933
Methyl Isobutyl Carbinol	2053
Methylamyl Acetate	1233
Methylcyclohexanols, flammable	2617
Methylcyclohexanones	2297
Morpholine	2054
N, N-Dimethylformamide	2265
Nitrocellulose Solution, Flammable, with not more than 12.6% nitrogen, by dry mass, and not more than 55% nitrocellulose	2059
Nitroethane	2842
Nitromethane	1261
Nitropropanes	2608
Nonanes	1920
Paint (including paint, lacquer, enamel, stain,	1263

shellac solution, varnish, polish, liquid filler and liquid lacquer base)	
Paint Related Material (including paint thinning or reducing compound)	1263
Paraldehyde	1264
Pentamethylheptane	2286
Pentane-2,4-Dione	2310
Perfumery Products, flammable liquid	1266
Petroleum Crude Oil	1267
Petroleum Distillates, N.O.S. or Petroleum Products, N.O.S.	1268
Picolines	2313
Pine Oil	1272
Polyester Resin Kit	3269
Printing Ink, flammable	1210
Propylene Tetramer	2850
Resin Solution, flammable	1866
Rosin Oil	1286
Rubber Solution	1287
Shale Oil	1288
Sodium Methylate, Solutions in alcohols	1289
Styrene Monomer, Inhibited	2055
Tars, Liquid	1999
Terpene Hydrocarbons, N.O.S.	2319
Terpinolene	2541
Tetraethyl Silicate	1292

Tetrahydrofurfurylamine	2943
Tetrapropyl Orthotitanate	2413
Tinctures, Medicinal	1293
Triallylamine	2610
Triethyl Phosphite	2323
Triisobutylene	2324
Triisopropyl Borate	2616
Trimethyl Phosphite	2329
Trimethylamine, Aqueous Solution, not more than 30% trimethylamine, by mass	1297
Tripropylamine	2260
Tripropylene	2057
Turpentine	1299
Turpentine Substitute	1300
Vinyltoluenes, Inhibited (ortho-, meta-, para-)	2618
Wood Preservatives, Liquid	1306
Xylenes (meta-, para-)	1307
Zirconium, suspended in a Flammable Liquid	1308
alpha-Pinene	2368
beta-Acetaldehyde Oxime	2332
normal-Amyl Methyl Ketone	1110
normal-Butyl Methacrylate, Inhibited	2227
normal-Decane	2247
normal-Heptaldehyde	3056
normal-Hexaldehyde	1207
normal-Propanol	1274

normal-Propylbenzene	2364
normal-Undecane	2330

Class 3.4 - Extra High Flashpoint Group of Liquids Having a Flashpoint Exceeding 61℃, Closed Cup Test

Diesel Oil	----
Fuel Oils and furnace oil having a flash point of or exceeding 61℃ (141℉) c.c. or 65.6℃ (150℉) o.c.	----

CLASS 4

READILY COMBUSTIBLE SUBSTANCES, MATERIALS AND ARTICLES

Proper Shipping name	UN number
Class 4.1 - Flammable Solids	
2-Amino-4, 6-dinitrophenol, Wetted with not less than 20% water, by mass	3317
2-Bromo-2-nitropropane-1, 3-diol	3241
5-tertiary-Buty1-2,4,6-trinitro-meta-xylene	2956
Aluminium Powder, Coated	1309
Aluminium Resinate	2715
Ammonium Picrate, Wetted with not less than 10% water, by mass	1310
Azodicarbonamide	3242
Barium Azide, Wetted with not less than 50%	1571

water, by mass	
Borneol	1312
Calcium Resinate	1313
Calcium Resinate, Fused	1314
Camphor	2717
Celluloid	2000
Cerium, slabs, ingots, or rods	1333
Cobalt Naphthenates, Powder	2001
Cobalt Resinate, Precipitated	1318
Decaborane	1868
Dicyclohexylammonium Nitrite	2687
Dinitrophenol, wetted with not less than 15% water, by mass	1320
Dinitrophenolates, wetted with not less than 15% water, by mass	1321
Dinitroresorcinol, wetted with not less than 15% water, by mass	1322
Dipicryl Sulphide, wetted with not less than 10% water, by mass	2852
Ferrocerium	1323
Fibres or Fabrics Impregnated with Weakly Nitrated Nitrocellulose, N.O.S. (including toe puffs, nitrocellulose base)	1353
Films, Nitrocellulose Base, gelatin-coated, except scrap	1324
Firelighters, Solid with flammable liquid	2623

Flammable Solid, Corrosive, Inorganic, N.O.S.	3180
Flammable Solid, Corrosive, Organic, N.O.S.	2925
Flammable Solid, Inorganic, N.O.S.	3178
Flammable Solid, Organic, Molten, N.O.S.	3176
Flammable Solid, Organic, N.O.S.	1325
Flammable Solid, Toxic, Inorganic, N.O.S.	3179
Flammable, Solid, Toxic, Organic, N.O.S.	2926
Hafnium Powder, Wetted with not less than 25% water (a visible-excess of water must be present): mechanically produced, having a particle size less than 53 microns; or chemically produced, having a particle size less than 840 microns	1326
Hay; Straw; Bhusa	1327
Hexamethylenetetramine	1328
Isosorbide Dinitrate Mixture with not less than 60% lactose, mannose, starch, or calcium hydrogen phosphate	2907
Isosorbide-5-Mononitrate	3251
Lead Phosphite, Dibasic	2989
Magnesium or Magnesium Alloys with more than 50% magnesium, in pellets, turnings or ribbon	1869
Manganese Resinate	1330
Metal Hydrides, Flammable, N.O.S.	3182
Metal Powder, Flammable, N.O.S.	3089
Metal Salts of Organic Compounds, Flammable,	3181

N.O.S.	
Metaldehyde	1332
Naphthalene, Crude or Naphthalene, Refined	1334
Naphthalene, Molten	2304
Nitrocellulose Membrane Filters	3270
Nitrocellulose With not less than 25% alcohol by mass and not more than 12.6% nitrogen, by dry mass	2556
Nitrocellulose With not less than 25% water, by mass	2555
Nitrocellulose, With not more than 12.6% nitrogen, by dry mass, Mixture With or Without Plasticizer, With or Without Pigment	2557
Nitroglycerin Mixture with more than 2% but not more than 10% nitroglycerin, by mass, desensitized	3319
Nitroguanidine, Wetted with not less than 20% water, by mass	1336
Nitronaphthalene	2538
Nitrostarch, Wetted with not less than 20% water, by mass	1337
Paraformaldehyde	2213
Phosphorus Heptasulphide, free from yellow or white phosphorus	1339
Phosphorus Sesquisulphide, free from yellow or white phosphorus	1341

Phosphorus Trisulphide, free from yellow or white phosphorus	1343
Phosphorus, Amorphous	1338
Self-Reactive Liquid Type B	3221
Self-Reactive Liquid Type B, Temperature Controlled	3231
Self-Reactive Liquid Type C	3223
Self-Reactive Liquid Type C, Temperature Controlled	3233
Self-Reactive Liquid Type D	3225
Self-Reactive Liquid Type D, Temperature Controlled	3235
Self-Reactive Liquid Type E	3227
Self-Reactive Liquid Type E, Temperature Controlled	3237
Self-Reactive Liquid Type F	3229
Self-Reactive Liquid Type F, Temperature Controlled	3239
Self-Reactive Solid Type B	3222
Self-Reactive Solid Type B, Temperature Controlled	3232
Self-Reactive Solid Type C	3224
Self-Reactive Solid Type C, Temperature Controlled	3234
Self-Reactive Solid Type D	3226
Self-Reactive Solid Type D, Temperature	3236

Controlled	
Self-Reactive Solid Type E	3228
Self-Reactive Solid Type E, Temperature Controlled	3238
Self-Reactive Solid Type F	3230
Self-Reactive Solid Type F, Temperature Controlled	3240
Silicon Powder, Amorphous	1346
Silver Picrate, Wetted with not less than 30% water, by mass	1347
Sodium Dinitro-ortho-Cresolate, Wetted with not less than 15% water, by mass	1348
Sodium Picramate, Wetted with not less than 20% water, by mass	1349
Solids Containing Flammable Liquid, N.O.S.	3175
Sulphur, Molten	2448
Sulphur, fine-grained powder	1350
Sulphur, lump and coarse-grained powder	1350
Titanium Hydride	1871
Titanium Powder, Wetted with not less than 25% water (a visible excess of water must be present): mechanically produced, having a particle size less than 53 microns; or chemically produced, having a particle size less than 840 microns	1352
Titanium, Sponge Granules or Titanium, Sponge	2878

Powders	
Trinitrobenzene, Wetted with not less than 30% water, by mass	1354
Trinitrobenzoic Acid, Wetted with not less than 30% water, by mass	1355
Trinitrophenol, Wetted with not less than 30% water, by mass	1344
Trinitrotoluene, Wetted with not less than 30% water, by mass	1356
Urea Nitrate, Wetted with not less than 20% water, by mass	1357
Zinc Resinate	2714
Zirconium Hydride	1437
Zirconium Picramate, Wetted with not less than 20% water, by mass	1517
Zirconium Powder, Wetted with not less than 25% water (a visible excess of water must be present): mechanically produced, having a particle size less than 53 microns; or chemically produced, having a particle size less than 840 microns	1358
Zirconium, Dry coiled wire, finished metal sheets or strip (thinner than 254 microns but not thinner than 18 microns)	2858

Class 4.2 - Substances Liable to Spontaneous Combustion

9-Phosphabicyclononanes	2940
Alkali Metal Alcoholates, Self-Heating, Corrosive, N.O.S.	3206
Alkaline Earth Metal Alcoholates, N.O.S.	3205
Aluminium Alkyl Halides; Aluminium Alkyl Bromides; Methylaluminium Sesquibromide	3052
Aluminium Alkyl Hydrides	3076
Aluminium Alkyls	3051
Aluminium Borohydride or Aluminium Borohydride In Devices	2870
Barium Alloy, Pyrophoric	1854
Calcium Dithionite	1923
Calcium, Pyrophoric or Calcium Alloys, Pyrophoric	1855
Carbon, Activated	1362
Carbon, animal or vegetable origin	1361
Celluloid, Scrap	2002
Copra	1363
Diethylzinc	1366
Dimethylzinc	1370
Ferrous Metal Borings, Shavings, Turnings, or Cuttings, in a form liable to self-heating	2793
Fibres or Fabrics, Animal or Vegetable or Synthetic, N.O.S., with oil	1373
Fibres, Animal or Vegetable, burnt, wet or damp	----
Fishmeal (Fishscrap), Unstabilized; High hazard;	1374

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 or fishscrap	
Fishmeal (Fishscrap), Unstabilized; Not antioxidant treated; Moisture content: more than 5% but not more than 12%, by mass; Fat content: not more than 12%, by mass	1374
Hafnium Powder, Dry	2545
Iron Oxide, Spent or Iron Sponge, Spent	1376
Lithium Alkyls	2445
Magnesium Alkyls	3053
Magnesium Diamide	2004
Magnesium Diphenyl	2005
Maneb or Maneb Preparation with not less than 60% maneb	2210
Metal Alkyl Halides, N.O.S. or Metal Aryl Halides, N.O.S.	3049
Metal Alkyl Hydrides, N.O.S. or Metal Aryl Hydrides, N.O.S.	3050
Metal Alkyls, N.O.S. or Metal Aryls, N.O.S.	2003
Metal Catalyst, Dry	2881
Metal Catalyst, Wetted with a visible excess of liquid	1378
Metal Powder, Self-Heating, N.O.S.	3189

Organic Pigments, Self-Heating	3313
Pentaborane	1380
Phosphorus, White or Yellow, Dry	1381
Phosphorus, White or Yellow, Under Water	1381
Phosphorus, White, Molten	2447
Plastics, Nitrocellulose-Based, Self-Heating, N.O.S.	2006
Potassium Dithionite	1929
Potassium Sulphide, Anhydrous or Potassium Sulphide with less than 30% water of crystallization	1382
Pyrophoric Liquid, Inorganic, N.O.S.	3194
Pyrophoric Liquid, Organic, N.O.S.	2845
Pyrophoric Metal, N.O.S. or Pyrophoric Alloy, N.O.S.	1383
Pyrophoric Organometallic Compound (liquid), N.O.S.	3203
Pyrophoric Organometallic Compound (solid), N.O.S.	3203
Pyrophoric Solid, Inorganic, N.O.S.	3200
Pyrophoric Solid, Organic, N.O.S.	2846
Rags, Oily	1856
Seed Cake, containing vegetable oil mechanically expelled seeds, containing more than 10% of oil or more than 20% of oil and moisture combined	1386
Seed Cake, containing vegetable oil solvent	1386

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	
Seed Cake, containing vegetable oil solvent extractions containing not more than 1.5% of oil and 11% of moisture	2217
Self-heating Liquid, Corrosive, Inorganic, N.O.S.	3188
Self-heating Liquid, Corrosive, Organic, N.O.S.	3185
Self-heating Liquid, Inorganic, N.O.S.	3186
Self-heating Liquid, Organic, N.O.S.	3183
Self-heating Liquid, Toxic, Inorganic, N.O.S.	3187
Self-heating Liquid, Toxic, Organic, N.O.S.	3184
Self-heating Solid, Corrosive, Inorganic, N.O.S.	3192
Self-heating Solid, Corrosive, Organic, N.O.S.	3126
Self-heating Solid, Inorganic, N.O.S.	3190
Self-heating Solid, Organic, N.O.S.	3088
Self-heating Solid, Toxic, Inorganic, N.O.S.	3191
Self-heating Solid, Toxic, Organic, N.O.S.	3128
Sodium Dithionite	1384
Sodium Hydrosulphide, with less than 25% water of crystallization	2318
Sodium Methylate	1431
Sodium Sulphide, Anhydrous or Sodium Sulphide with less than 30% water of crystallization	1385
Textile Waste, Wet	----

Titanium Disulphide	3174
Titanium Powder, Dry	2546
Titanium Trichloride, Pyrophoric or Titanium Trichloride Mixture, Pyrophoric	2441
Tributylphosphane	3254
Zirconium Powder, Dry	2008
Zirconium, Dry, finished sheets, strip or coiled wire (thinner than 18 microns)	2009
Zirconium, Scrap	1932
para-Nitrosodiethylaniline	----
para-Nitrosodimethylaniline	1369
tert-Butyl Hypochlorite	3255

Class 4.3 - Substances That Become Dangerous In Contact With Water

Alkali Metal Alloy, Liquid, N.O.S.	1421
Alkali Metal Amalgam	1389
Alkali Metal Amide	1390
Alkali Metal Dispersion, or Alkaline Earth Metal Dispersion	1391
Alkaline Earth Metal Alloy, N.O.S.	1393
Alkaline Earth Metal Amalgam	1392
Aluminium Carbide	1394
Aluminium Ferrosilicon Powder	1395
Aluminium Hydride	2463
Aluminium Phosphide	1397
Aluminium Powder, Uncoated, non-pyrophoric	1396

Aluminium Silicon Powder, Uncoated	1398
Aluminium Smelting By-Products or Aluminium Remelting By-Products	3170
Barium, non-pyrophoric	1400
Batteries, Containing Sodium or Cells, Containing Sodium	3292
Boron Trifluoride Dimethyl Etherate	2965
Caesium	1407
Calcium Carbide	1402
Calcium Cyanamide, with more than 0.1% calcium carbide	1403
Calcium Hydride	1404
Calcium Manganese Silicon	2844
Calcium Phosphide	1360
Calcium Silicide	1405
Calcium, non-pyrophoric	1401
Cerium, turnings or gritty powder	3078
Chlorosilanes, Water-Reactive, Flammable, Corrosive, N.O.S.	2988
Ethyldichlorosilane	1183
Ferrosilicon, with 30% or more but less than 90% silicon	1408
Lithium Aluminium Hydride	1410
Lithium Aluminium Hydride, Ethereal	1411
Lithium Borohydride	1413
Lithium Ferrosilicon	2830

Lithium Hydride	1414
Lithium Hydride, Fused Solid	2805
Lithium Nitride	2806
Lithium Silicon	1417
Lithium, non-pyrophoric	1415
Magnesium Aluminium Phosphide	1419
Magnesium Granules, Coated, containing more than 50% magnesium, particle size not less than 149 microns	2950
Magnesium Hydride	2010
Magnesium Phosphide	2011
Magnesium Powder or Magnesium Alloys, Powder, containing more than 50% magnesium, non-pyrophoric	1418
Magnesium Silicide	2624
Maneb or Maneb Preparation, Stabilized against self-heating	2968
Metal Hydrides, Water-Reactive, N.O.S.	1409
Metallic Substance, Water-Reactive, N.O.S.	3208
Metallic Substance, Water-Reactive, Self-Heating, N.O.S.	3209
Methyldichlorosilane	1242
Methylmagnesium Bromide, In Ethyl Ether	1928
Organometallic Compound or Compound Solution or Compound Dispersion, Water-Reactive, Flammable, N.O.S.	3207

Phosphorus Pentasulphide, free from yellow and white phosphorus	1340
Potassium	2257
Potassium Borohydride	1870
Potassium Metal Alloys	1420
Potassium Phosphide	2012
Potassium Sodium Alloys	1422
Rubidium	1423
Sodium	1428
Sodium Aluminium Hydride	2835
Sodium Borohydride	1426
Sodium Hydride	1427
Sodium Phosphide	1432
Stannic Phosphide	1433
Strontium Phosphide	2013
Trichlorosilane	1295
Water-Reactive Liquid, Corrosive, N.O.S.	3129
Water-Reactive Liquid, N.O.S.	3148
Water-Reactive Liquid, Toxic, N.O.S.	3130
Water-Reactive Solid, Corrosive, N.O.S.	3131
Water-Reactive Solid, N.O.S.	2813
Water-Reactive Solid, Toxic, N.O.S.	3134
Zinc Ashes or Zinc Dross or Zinc Residue or Zinc Skimmings	1435
Zinc Phosphide	1714
Zinc Powder or Zinc Dust, non-pyrophoric	1436

CLASS 5

STRONG SUPPORTERS OF COMBUSTION

Proper Shipping name	UN number
Class 5.1 - Oxidizing Substances	
Aluminium Nitrate	1438
Ammonium Nitrate Fertilizers Type A - (A1) Uniform non-segregating mixtures of ammonium nitrate with added matter which is inorganic and chemically inert towards ammonium nitrate, with not less than 90% ammonium nitrate and not more than 0.2% of combustible material (including organic material calculated as (carbon), or with more than 70% but less than 90% ammonium nitrate and not more than 0.4% total combustible material	2067
Ammonium Dichromate	1439
Ammonium Nitrate Fertilizer, N.O.S.	2072
Ammonium Nitrate Fertilizers Type A - (A2) Uniform non-segregating mixtures of ammonium nitrate with calcium carbonate and/or dolomite, with more than 80% but less than 90% ammonium nitrate and not more than 0.4% total combustible material	2068
Ammonium Nitrate Fertilizers Type A - (A3) Uniform non-segregating mixtures of ammonium	2069

nitrate; ammonium sulphate, with more than 45% but not more than 70% ammonium nitrate and not more than 0.4% total combustible material	
Ammonium Nitrate Fertilizers Type A - (A4) Uniform non-segregating mixtures of nitrogen; phosphate or nitrogen; potash types or complete fertilizers of nitrogen; phosphate; potash type, with more than 70% but less than 90% ammonium nitrate and not more than 0.4% total combustible material	2070
Ammonium Nitrate, Liquid (hot concentrated solution)	2426
Ammonium Nitrate, with not more than 0.2% of combustible substances including any organic substance calculated as carbon, to the exclusion of any other added substance	1942
Ammonium Perchlorate	1442
Ammonium Persulphate	1444
Barium Bromate	2719
Barium Chlorate, Solid or Solution	1445
Barium Hypochlorite, with more than 22% available chlorine	2741
Barium Nitrate	1446
Barium Perchlorate, Solid or Solution	1447
Barium Permanganate	1448
Barium Peroxide	1449

Beryllium Nitrate	2464
Bromates, Inorganic, Aqueous Solution, N.O.S.	3213
Bromates, Inorganic, N.O.S.	1450
Bromine Pentafluoride	1745
Bromine Trifluoride	1746
Caesium Nitrate	1451
Calcium Chlorate	1452
Calcium Chlorate, Aqueous Solution	2429
Calcium Chlorite	1453
Calcium Hypochlorite Mixture, Dry with more than 10% but not more than 39% available chlorine	2208
Calcium Hypochlorite, Dry or Calcium Hypochlorite Mixture, Dry with more than 39% available chlorine (8.8% available oxygen)	1748
Calcium Hypochlorite, Hydrated, or Calcium Hypochlorite, Hydrated Mixture with not less than 5.5% but not more than 10% water	2880
Calcium Nitrate	1454
Calcium Perchlorate	1455
Calcium Permanganate	1456
Calcium Peroxide	1457
Chlorate and Borate Mixture	1458
Chlorate and Magnesium Chloride Mixture	1459
Chlorates, Inorganic, Aqueous Solution, N.O.S.	3210
Chlorates, Inorganic, N.O.S.	1461
Chloric Acid, Aqueous Solution with not more than	2626

10% chloric acid	
Chlorites, Inorganic, N.O.S.	1462
Chromium Nitrate	2720
Chromium Trioxide Anhydrous	1463
Copper Chlorate	2721
Dichloroisocyanuric Acid, Dry or Dichloroisocyanuric Acid Salts	2465
Didymium Nitrate	1465
Ferric Nitrate	1466
Guanidine Nitrate	1467
Hydrogen Peroxide and Peroxyacetic Acid Mixture, with acid(s), water and not more than 5% peroxyacetic acid, Stabilized	3149
Hydrogen Peroxide, Aqueous Solution, with not less than 8% but less than 20% hydrogen peroxide (stabilized as necessary)	2984
Hydrogen Peroxide, Aqueous Solution, with not less than 20% but not more than 60% hydrogen peroxide (stabilized as necessary)	2014
Hydrogen Peroxide, Stabilized or Hydrogen Peroxide, Aqueous Solution, Stabilized, with more than 60% hydrogen peroxide	2015
Hypochlorites, Inorganic, N.O.S.	3212
Iodine Pentafluoride	2495
Lead Dioxide	1872
Lead Nitrate	1469

Lead Perchlorate, Solid or Solution	1470
Lithium Hypochlorite, Dry or Lithium Hypochlorite Mixture, Dry with more than 39% available chlorine (8.8% available oxygen)	1471
Lithium Nitrate	2722
Lithium Peroxide	1472
Magnesium Bromate	1473
Magnesium Chlorate	2723
Magnesium Nitrate	1474
Magnesium Perchlorate	1475
Magnesium Peroxide	1476
Manganese Nitrate	2724
Nickel Nitrate	2725
Nickel Nitrite	2726
Nitrates, Inorganic, Aqueous Solution, N.O.S.	3218
Nitrates, Inorganic, N.O.S.	1477
Nitrites, Inorganic, Aqueous Solution, N.O.S.	3219
Nitrites, Inorganic, N.O.S.	2627
Oxidizing Liquid, Corrosive, N.O.S.	3098
Oxidizing Liquid, N.O.S.	3139
Oxidizing Liquid, Toxic, N.O.S.	3099
Oxidizing Solid, Corrosive, N.O.S.	3085
Oxidizing Solid, N.O.S.	1479
Oxidizing Solid, Toxic, N.O.S.	3087
Perchlorates, Inorganic, Aqueous Solution, N.O.S.	3211
Perchlorates, Inorganic, N.O.S.	1481

Perchloric Acid, with more than 50% but not more than 72% acid, by mass	1873
Permanganates, Inorganic, Aqueous Solution, N.O.S.	3214
Permanganates, Inorganic, N.O.S.	1482
Peroxides, Inorganic, N.O.S.	1483
Persulphates, Inorganic, Aqueous Solution, N.O.S.	3216
Persulphates, Inorganic, N.O.S.	3215
Potassium Bromate	1484
Potassium Chlorate	1485
Potassium Chlorate, Aqueous Solution	2427
Potassium Nitrate	1486
Potassium Nitrate and Sodium Nitrite, Mixture	1487
Potassium Nitrite	1488
Potassium Perchlorate	1489
Potassium Permanganate	1490
Potassium Peroxide	1491
Potassium Persulphate	1492
Potassium Superoxide	2466
Silver Nitrate	1493
Sodium Bromate	1494
Sodium Chlorate	1495
Sodium Chlorate, Aqueous Solution	2428
Sodium Chlorite	1496
Sodium Nitrate	1498
Sodium Nitrate and Potassium Nitrate Mixture	1499

Sodium Nitrite	1500
Sodium Perchlorate	1502
Sodium Permanganate	1503
Sodium Peroxide	1504
Sodium Peroxoborate, Anhydrous	3247
Sodium Persulphate	1505
Sodium Superoxide	2547
Strontium Chlorate	1506
Strontium Nitrate	1507
Strontium Perchloroate	1508
Strontium Peroxide	1509
Tetranitromethane	1510
Thallium Chlorate	2573
Trichloroisocyanuric Acid, Dry	2468
Urea Hydrogen Peroxide	1511
Zinc Bromate	2469
Zinc Chlorate	1513
Zinc Nitrate	1514
Zinc Permanganate	1515
Zinc Peroxide	1516
Zirconium Nitrate	2728

Class 5.2 - Organic Peroxides

Organic Peroxide Type B, Liquid	3101
Organic Peroxide Type B, Liquid, Temperature Controlled	3111

Organic Peroxide Type B, Solid	3102
Organic Peroxide Type B, Solid, Temperature Controlled	3112
Organic Peroxide Type C, Liquid	3103
Organic Peroxide Type C, Liquid, Temperature Controlled	3113
Organic Peroxide Type C, Solid	3104
Organic Peroxide Type C, Solid, Temperature Controlled	3114
Organic Peroxide Type D, Liquid	3105
Organic Peroxide Type D, Liquid, Temperature Controlled	3115
Organic Peroxide Type D, Solid	3106
Organic Peroxide Type D, Solid, Temperature Controlled	3116
Organic Peroxide Type E, Liquid	3107
Organic Peroxide Type E, Liquid, Temperature Controlled	3117
Organic Peroxide Type E, Solid	3108
Organic Peroxide Type E, Solid, Temperature Controlled	3118
Organic Peroxide Type F, Liquid	3109
Organic Peroxide Type F, Liquid, Temperature Controlled	3119
Organic Peroxide Type F, Solid	3110
Organic Peroxide Type F, Solid, Temperature	3120

Controlled

CLASS 6

TOXIC AND INFECTIOUS SUBSTANCES

Proper Shipping name	UN number
Class 6.1 - Toxic Substances	
1,1,1-Trichloroethane	2831
1,1,2,2-Tetrachloroethane	1702
1,1-Dichloro-1-Nitroethane	2650
1,2-Dibromobutan-3-one	2648
1,3-Dichloroacetone	2649
1,3-Dichloropropanol-2	2750
1,4-Butynediol	2716
1,5,9-Cyclododecatriene	2518
1-Chloro-3-Bromopropane	2688
2,2'-Dichlorodiethyl ether	1916
2,4-Toluylenediamine, Liquid or Solid	1709
2-Amino-4-Chlorophenol	2673
2-Amino-5-Diethylamino-Pentane	2946
2-Chloroethanal	2232
2-Chloropyridine	2822
2-Dimethylaminoethyl Acrylate	3302
2-Dimethylaminoethyl Methacrylate	2522
2-Ethylaniline	2273
2-Ethylhexyl Chloroformate	2748

2-Methyl-2-Heptanethiol	3023
2-Methyl-5-Ethylpyridine	2300
2-Trifluoromethylaniline	2942
3-Chloro-4-Methylphenyl Isocyanate	2236
3-Chloropropanol-1	2849
3-Nitro-4-Chlorobenzotrifluoride	2307
3-Trifluoromethylaniline	2948
4,4'-Diaminodiphenylmethane	2651
4-Chloro-ortho-Toluidine Hydrochloride, Solid or Solution	1579
4-Thiapentanal	2785
Acetone Cyanohydrin, stabilized	1541
Acridine	2713
Acrolein, Inhibited	1092
Acrylamide, Solid or Solution	2074
Adiponitrile	2205
Aldol	2839
Alkaloids, Liquid, N.O.S. or Alkaloid Salts, Liquid, N.O.S.	3140
Alkaloids, Solid, N.O.S. or Alkaloid Salts, Solid, N.O.S.	1544
Allyl Alcohol	1098
Allyl Chloroformate	1722
Allyl Isothiocyanate, Stabilized	1545
Allylamine	2334
Aluminium Phosphide Pesticide	3048

Aminophenols (ortho-; meta-; para-)	2512
Aminopyridines (ortho-; meta-; para-)	2671
Ammonium Arsenate	1546
Ammonium Dinitro-ortho-Cresolate, Solid or Solution	1843
Ammonium Fluoride	2505
Ammonium Fluorosilicate	2854
Ammonium Metavanadate	2859
Ammonium Polyvanadate	2861
Aniline	1547
Aniline Hydrochloride	1548
Antimony Compound, Inorganic, Liquid, N.O.S.	3141
Antimony Compound, Inorganic, Solid, N.O.S.	1549
Antimony Lactate	1550
Antimony Potassium Tartrate	1551
Antimony Powder	2871
Arsenic	1558
Arsenic Acid, Liquid	1553
Arsenic Acid, Solid	1554
Arsenic Bromide	1555
Arsenic Compound, Liquid, N.O.S., Inorganic	1556
Arsenic Compound, Solid, N.O.S., Inorganic	1557
Arsenic Pentoxide	1559
Arsenic Trichloride	1560
Arsenic Trioxide	1561
Arsenical Dust	1562

Arsenical Pesticide, Liquid, Toxic	2994
Arsenical Pesticide, Liquid, Toxic, Flammable	2993
Arsenical Pesticide, Solid, Toxic	2759
Barium Compound, N.O.S.	1564
Barium Cyanide	1565
Barium Oxide	1884
Benzidine	1885
Benzoic Derivative Pesticide, Liquid, Toxic	3004
Benzoic Derivative Pesticide, Liquid, Toxic, Flammable	3003
Benzoic Derivative Pesticide, Solid, Toxic	2769
Benzonitrile	2224
Benzoquinone	2587
Benzyl Bromide	1737
Benzyl Chloride	1738
Benzyl Iodide	2653
Benzylidene Chloride	1886
Beryllium Compound, N.O.S.	1566
Beryllium Powder	1567
Bipyridilium Pesticide, Liquid, Toxic, Flammable	3015
Bipyridilium Pesticide, Liquid, Toxic	3016
Bipyridilium Pesticide, Solid, Toxic	2781
Bromoacetone	1569
Bromobenzyl Cyanides, Liquid or Solid	1694
Bromochloromethane	1887
Bromoform	2515

Brucine	1570
Butyltoluenes	2667
Cacodylic Acid	1572
Cadmium Compound	2570
Calcium Arsenate	1573
Calcium Arsenate and Calcium Arsenite Mixture, Solid	1574
Calcium Cyanide	1575
Carbamate Pesticide, Liquid, Toxic	2992
Carbamate Pesticide, Liquid, Toxic, Flammable	2991
Carbamate Pesticide, Solid, Toxic	2757
Carbon Tetrabromide	2516
Carbon Tetrachloride	1846
Chloral, Anhydrous, Inhibited	2075
Chloroacetic Acid, Molten	3250
Chloroacetic Acid, Solid	1751
Chloroacetic Acid, Solution	1750
Chloroacetone, Stabilized	1695
Chloroacetonitrile	2668
Chloroacetophenone, Liquid or Solid	1697
Chloroacetyl Chloride	1752
Chloroanilines, Liquid	2019
Chloroanilines, Solid	2018
Chlorocresols, Liquid or Solid	2669
Chlorodinitrobenzenes, Liquid or Solid	1577
Chloroform	1888

Chloroformates, Toxic, Corrosive, Flammable, N.O.S.	2742
Chloroformates, Toxic, Corrosive, N.O.S.	3277
Chloromethyl Chloroformate	2745
Chloronitroanilines	2237
Chloronitrobenzenes (ortho-; meta-; para-), Liquid or Solid	1578
Chloronitrotoluenes	2433
Chlorophenols, Liquid	2021
Chlorophenols, Solid	2020
Chloropicrin	1580
Chloropicrin Mixture, N.O.S.	1583
Chlorotoluidines, Liquid or Solid (ortho-; meta-; para-)	2239
Copper Acetoarsenite	1585
Copper Arsenite	1586
Copper Cyanide	1587
Copper-Based Pesticide, Liquid, Toxic	3010
Copper-Based Pesticide, Liquid, Toxic, Flammable	3009
Copper-Based Pesticide, Solid, Toxic	2775
Coumarin Derivative Pesticide, Liquid, Toxic	3026
Coumarin Derivative Pesticide, Liquid, Toxic, Flammable	3025
Coumarin Derivative Pesticide, Solid, Toxic	3027
Cresols, (ortho-; meta-; para-), Liquid or Solid	2076
Cresylic Acid	2022

Crotonaldehyde, Stabilized	1143
Cyanide Solution, N.O.S.	1935
Cyanides, Inorganic, Solid, N.O.S.	1588
Cyanogen Bromide	1889
Cyclobutyl Chloroformate	2744
Cyclohexyl Isocyanate	2488
Dibromochloropropanes	2872
Dibromomethane	2664
Dichloroanilines, Solid or Liquid	1590
Dichlorodimethyl Ether, Symmetrical	2249
Dichloroisopropyl Ether	2490
Dichloromethane	1593
Dichlorophenyl Isocyanates	2250
Diethyl Sulphate	1594
Diketene, Inhibited	2521
Dimethyl Sulphate	1595
Dimethylhydrazine, Symmetrical	2382
Dimethylhydrazine, Unsymmetrical	1163
Dimethylthiophosphoryl Chloride	2267
Dinitro-ortho-Cresol	1598
Dinitroanilines	1596
Dinitrobenzenes, (ortho-; meta-; para-) Solid or Liquid	1597
Dinitrophenol Solution	1599
Dinitrotoluenes, Molten	1600
Dinitrotoluenes, Solid or Liquid	2038

Diphenylamine Chloroarsine	1698
Diphenylchloroarsine, Solid or Liquid	1699
Dithiocarbamate Pesticide, Liquid, Toxic	3006
Dithiocarbamate Pesticide, Liquid, Toxic, Flammable	3005
Dithiocarbamate Pesticide, Solid, Toxic	2771
Dye, Liquid, Toxic, N.O.S. or Dye Intermediate, Liquid, Toxic, N.O.S.	1602
Dye, Solid, Toxic, N.O.S. or Dye Intermediate, Solid, Toxic, N.O.S.	3143
Epibromohydrin	2558
Epichlorohydrin	2023
Ethyl Bromide	1891
Ethyl Bromoacetate	1603
Ethyl Chloroacetate	1181
Ethyl Chloroformate	1182
Ethyl Cyanoacetate	2666
Ethyl Oxalate	2525
Ethyldichloroarsine	1892
Ethylene Chlorohydrin	1135
Ethylene Dibromide	1605
Ethyleneimine, Inhibited	1185
Ferric Arsenate	1606
Ferric Arsenite	1607
Ferrous Arsenate	1608
Fluoroacetic Acid	2642

Fluoroanilines	2941
Fluorosilicates, N.O.S.	2856
Furfuraldehydes	1199
Furfuryl Alcohol	2874
Glycerol-alpha-Monochlorohydrin	2689
Hexachloroacetone	2661
Hexachlorobenzene	2729
Hexachlorobutadiene	2279
Hexachlorocyclopentadiene	2646
Hexachlorophene	2875
Hexaethyl Tetraphosphate	1611
Hexafluoroacetone Hydrate	2552
Hexamethylene Diisocyanate	2281
Hydrazine, Aqueous Solution, with not more than 37% hydrazine, by mass	3293
Hydrocyanic Acid, Aqueous Solution, with not more than 20% hydrogen cyanide	1613
Hydrogen Cyanide, Solution in Alcohol, with not more than 45% hydrogen cyanide	3294
Hydrogen Cyanide, Stabilized, containing less than 3% water and absorbed in a porous inert material	1614
Hydrogen Cyanide, Stabilized, containing less than 3% water	1051
Hydroquinone, Solid or Liquid	2662
Iron Pentacarbonyl	1994

Isocyanates, Toxic, Flammable, N.O.S. or Isocyanate Solution, Toxic, Flammable, N.O.S.	3080
Isocyanates, Toxic, N.O.S. or Isocyanate Solution, Toxic, N.O.S.	2206
Isocyanatobenzotrifluorides (ortho-; meta-; para-)	2285
Isophorone Diisocyanate	2290
Isopropyl Chloroformate	2407
Lead Acetate	1616
Lead Arsenates	1617
Lead Arsenites	1618
Lead Compound, Soluble, N.O.S.	2291
Lead Cyanide	1620
London Purple	1621
Magnesium Arsenate	1622
Magnesium Fluorosilicate	2853
Malononitrile	2647
Mercaptans, Liquid, Toxic, Flammable, N.O.S. or Mercaptan Mixture, Liquid, Toxic, Flammable, N.O.S.	3071
Mercuric Arsenate	1623
Mercuric Chloride	1624
Mercuric Nitrate	1625
Mercuric Potassium Cyanide	1626
Mercurous Nitrate	1627
Mercury Acetate	1629

Mercury Ammonium Chloride	1630
Mercury Benzoate	1631
Mercury Bromides	1634
Mercury Compound, Liquid, N.O.S.	2024
Mercury Compound, Solid, N.O.S.	2025
Mercury Cyanide	1636
Mercury Gluconate	1637
Mercury Iodide	1638
Mercury Nucleate	1639
Mercury Oleate	1640
Mercury Oxide	1641
Mercury Oxycyanide, Desensitized	1642
Mercury Potassium Iodide	1643
Mercury Salicylate	1644
Mercury Sulphate	1645
Mercury Thiocyanate	1646
Mercury-Based Pesticide, Liquid, Toxic	3012
Mercury-Based Pesticide, Liquid, Toxic, Flammable	3011
Mercury-Based Pesticide, Solid, Toxic	2777
Metal Carbonyls, N.O.S.	3281
Methanesulphonyl Chloride	3246
Methyl Bromide and Ethylene Dibromide Mixture, Liquid	1647
Methyl Bromoacetate	2643
Methyl Chloroacetate	2295
Methyl Chloroformate	1238

Methyl Chloromethyl Ether	1239
Methyl Dichloroacetate	2299
Methyl Iodide	2644
Methyl Isocyanate or Methyl Isocyanate Solution	2480
Methyl Isothiocyanate	2477
Methyl Orthosilicate	2606
Methyl Trichloroacetate	2533
Methyl Vinyl Ketone, Stabilized	1251
Methylbromoacetone	----
Methylhydrazine	1244
Motor Fuel Anti-Knock Mixture	1649
N, N-Di-normal-Butylaminoethanol	2873
N, N-Diethylaniline	2432
N, N-Dimethylaniline	2253
N-Ethyl-N-Benzylaniline	2274
N-Ethyl-N-Benzyltoluidines, (ortho-; meta-; para-) Solid or Liquid	2753
N-Ethylaniline	2272
N-Ethyltoluidines (ortho-; meta-; para-)	2754
N-Methylaniline	2294
N-normal-Butylaniline	2738
N-normal-Butylimidazole	2690
Naphthylthiourea	1651
Naphthylurea	1652
Nickel Carbonyl	1259
Nickel Cyanide	1653

Nicotine	1654
Nicotine Compound, Liquid, N.O.S. or Nicotine Preparation, Liquid, N.O.S.	3144
Nicotine Compound, Solid, N.O.S. or Nicotine Preparation, Solid, N.O.S.	1655
Nicotine Hydrochloride, Solid or Liquid, or Nicotine Hydrochloride Solution	1656
Nicotine Salicylate	1657
Nicotine Sulphate, Solid or Solution	1658
Nicotine Tartrate	1659
Nitriles, Toxic, Flammable, N.O.S.	3275
Nitriles, Toxic, N.O.S.	3276
Nitroanilines (ortho-; meta-; para-)	1661
Nitroanisoles, Solid or Liquid	2730
Nitrobenzene	1662
Nitrobenzotrifluorides, Liquid or Solid	2306
Nitrobromobenzenes, Liquid or Solid	2732
Nitrocresols	2446
Nitrophenols (ortho-; meta-; para-)	1663
Nitrotoluenes (ortho-; meta-; para-), Liquid or Solid	1664
Nitrotoluidines	2660
Nitroxylenes, Liquid or Solid	1665
Organoarsenic Compound, N.O.S.	3280
Organochlorine Pesticide, Liquid, Toxic	2996
Organochlorine Pesticide, Liquid, Toxic,	2995

Flammable	
Organochlorine Pesticide, Solid, Toxic	2761
Organometallic Compound, Toxic, N.O.S.	3282
Organophosphorus Compound, Toxic, Flammable, N.O.S.	3279
Organophosphorus Compound, Toxic, N.O.S.	3278
Organophosphorus Pesticide, Liquid, Toxic	3018
Organophosphorus Pesticide, Liquid, Toxic, Flammable	3017
Organophosphorus Pesticide, Solid, Toxic	2783
Organotin Compound, Liquid, N.O.S.	2788
Organotin Compound, Solid, N.O.S.	3146
Organotin Pesticide, Liquid, Toxic	3020
Organotin Pesticide, Liquid, Toxic, Flammable	3019
Organotin Pesticide, Solid, Toxic	2786
Osmium Tetroxide	2471
Pentachloroethane	1669
Pentachlorophenol	3155
Perchloromethyl Mercaptan	1670
Pesticide, Liquid, Toxic, Flammable, N.O.S.	2903
Pesticide, Liquid, Toxic, N.O.S.	2902
Pesticide, Solid, Toxic, N.O.S.	2588
Phenacyl Bromide	2645
Phenetidines	2311
Phenol Solution	2821
Phenol, Molten	2312

Phenol, Solid	1671
Phenoxy Pesticide, Liquid, Toxic	3000
Phenoxy Pesticide, Liquid, Toxic, Flammable	2999
Phenoxy Pesticide, Solid, Toxic	2765
Phenyl Chloroformate	2746
Phenyl Isocyanate	2487
Phenyl Mercaptan	2337
Phenyl Urea Pesticide, Liquid, Toxic	3002
Phenyl Urea Pesticide, Liquid, Toxic, Flammable	3001
Phenyl Urea Pesticide, Solid, Toxic	2767
Phenylacetonitrile, Liquid	2470
Phenylcarbylamine Chloride	1672
Phenylenediamines (ortho-; meta-; para-)	1673
Phenylhydrazine	2572
Phenylmercuric Acetate	1674
Phenylmercuric Compound, N.O.S.	2026
Phenylmercuric Hydroxide	1894
Phenylmercuric Nitrate	1895
Phosphorus Trichloride	1809
Phthalimide Derivative Pesticide, Liquid, Toxic	3008
Phthalimide Derivative Pesticide, Liquid, Toxic, Flammable	3007
Phthalimide Derivative Pesticide, Solid, Toxic	2773
Potassium Arsenate	1677
Potassium Arsenite	1678
Potassium Cuprocyanide	1679

Potassium Cyanide, Solid or Solution	1680
Potassium Fluoride, Solid or Solution	1812
Potassium Fluoroacetate	2628
Potassium Fluorosilicate	2655
Potassium Metavanadate	2864
Propylene Chlorohydrin	2611
Quinoline	2656
Resorcinol	2876
Selenates or Selenites	2630
Selenium Compound, N.O.S.	3283
Selenium Disulphide	2657
Silver Arsenite	1683
Silver Cyanide	1684
Sodium Ammonium Vanadate	2863
Sodium Arsanilate	2473
Sodium Arsenate	1685
Sodium Arsenite, Aqueous Solution	1686
Sodium Arsenite, Solid	2027
Sodium Azide	1687
Sodium Cacodylate	1688
Sodium Chloroacetate	2659
Sodium Cuprocyanide Solution	2317
Sodium Cuprocyanide, Solid	2316
Sodium Cyanide, Solid or Solution	1689
Sodium Fluoride, Solid	1690
Sodium Fluoride, Solution	1690

Sodium Fluoroacetate	2629
Sodium Fluorosilicate	2674
Sodium Pentachlorophenate	2567
Solids containing Toxic Liquid, N.O.S.	3243
Strontium Arsenite	1691
Strychnine or Strychnine Salts	1692
Substituted Nitrophenol Pesticide, Solid, Toxic	2779
Substituted Nitrophenol Pesticide, Liquid, Toxic	3014
Substituted Nitrophenol Pesticide, Liquid, Toxic, Flammable	3013
Tellurium Compound, N.O.S.	3284
Tetrabromoethane	2504
Tetrachloroethylene	1897
Tetraethyl Dithiopyrophosphate	1704
Thallium Compound, N.O.S.	1707
Thallium Nitrate	2727
Thioglycol	2966
Thiolactic Acid	2936
Thiophosgene	2474
Toluene Diisocyanate	2078
Toluidines, Liquid or Solid (ortho-; meta-; para-)	1708
Toxic Liquid, Corrosive, Inorganic, N.O.S.	3289
Toxic Liquid, Corrosive, Organic, N.O.S.	2927
Toxic Liquid, Flammable, Organic, N.O.S.	2929
Toxic Liquid, Inorganic, N.O.S.	3287

Toxic Liquid, Organic, N.O.S.	2810
Toxic Liquid, Oxidizing, N.O.S.	3122
Toxic Liquid, Water-Reactive, N.O.S.	3123
Toxic Solid, Corrosive, Inorganic, N.O.S.	3290
Toxic Solid, Corrosive, Organic, N.O.S.	2928
Toxic Solid, Flammable, Organic, N.O.S.	2930
Toxic Solid, Inorganic, N.O.S.	3288
Toxic Solid, Organic, N.O.S.	2811
Toxic Solid, Oxidizing, N.O.S.	3086
Toxic Solid, Self-Heating, N.O.S.	3124
Toxic Solid, Water-Reactive, N.O.S.	3125
Toxins, Extracted from Living Sources, N.O.S.	3172
Triallyl Borate	2609
Triazine Pesticide, Liquid, Toxic	2998
Triazine Pesticide, Liquid, Toxic, Flammable	2997
Triazine Pesticide, Solid, Toxic	2763
Tributylamine	2542
Trichlorobenzenes, Liquid	2321
Trichlorobutene	2322
Trichloroethylene	1710
Tricresyl Phosphate with more than 3% ortho-isomer	2574
Trimethylacetyl Chloride	2438
Trimethylhexamethylene Diisocyanate	2328
Tris- (1-Aziridinyl) Phosphine Oxide, Solution	2501
Vanadium Compound, N.O.S.	3285

Vanadium Pentoxide, non-fused form	2862
Vanadyl Sulphate	2931
Vinyl Chloroacetate	2589
Vinylpyridines, Inhibited	3073
Xylenols, Solid or Liquid	2261
Xylidines, Solid or Liquid	1711
Xylyl Bromide	1701
Zinc Arsenate or Zinc Arsenite or Zinc Arsenate and Zinc Arsenite Mixture	1712
Zinc Cyanide	1713
Zinc Fluorosilicate	2855
alpha-Methylbenzyl Alcohol, Solid or Liquid	2937
alpha-Naphthylamine, Solid or Liquid	2077
beta-Naphthylamine, Solid or Liquid	1650
meta-Dichlorobenzene	----
normal-Butyl Chloroformate	2743
normal-Butyl Isocyanate	2485
normal-Propyl Chloroformate	2740
normal-Propyl Isocyanate	2482
ortho-Anisidine	2431
ortho-Dichlorobenzene	1591
para-Chloro-ortho-Anisidine	2233
para-Chlorobenzyl Chloride, Liquid or Solid	2235
tertiary-Butyl Isocyanate	2484
tertiary-Butylcyclohexyl Chloroformate	2747

Class 6.2 - Infectious Substances

Nil

CLASS 7

RADIOACTIVE SUBSTANCES

Nil

CLASS 8

CORROSIVE SUBSTANCES

Proper Shipping name	UN number
1-Pentol	2705
2-(2-Aminoethoxy) Ethanol	3055
2-Chloropropionic Acid, Solid or Solution	2511
2-Diethylaminoethanol	2686
2-Dimethylaminoethanol	2051
2-Ethyl-3-Propylacrolein	----
3,3'-Iminodipropylamine	2269
Acetic Acid Solution, more than 25% but not more than 80% acid, by mass	2790
Acetic Acid, Glacial or Acetic Acid Solution, more than 80% acid, by mass	2789
Acetic Anhydride	1715
Acetyl Bromide	1716

Acetyl Iodide	1898
Acrylic Acid, Inhibited	2218
Alkylphenols, Liquid, N.O.S. (including C2 - C12 homologues)	3145
Alkylphenols, Solid, N.O.S. (including C2 - C12 homologues)	2430
Alkylsulphonic Acids, Liquid or Arylsulphonic Acids, Liquid with more than 5% free sulphuric acid	2584
Alkylsulphonic Acids, Liquid or Arylsulphonic Acids, Liquid with not more than 5% free sulphuric acid	2586
Alkylsulphonic Acids, Solid or Arylsulphonic Acids, Solid with more than 5% free sulphuric acid	2583
Alkylsulphonic Acids, Solid or Arylsulphonic Acids, Solid with not more than 5% free sulphuric acid	2585
Alkylsulphuric Acids	2571
Allyltrichlorosilane, Stabilized	1724
Aluminium Bromide, Anhydrous	1725
Aluminium Bromide, Solution	2580
Aluminium Chloride, Anhydrous	1726
Aluminium Chloride, Solution	2581
Amines, Liquid, Corrosive, Flammable, N.O.S. or Polyamines, Liquid, Corrosive, Flammable,	2734

N.O.S.	
Amines, Liquid, Corrosive, N.O.S. or Polyamines, Liquid, Corrosive, N.O.S.	2735
Amines, Solid, Corrosive, N.O.S. or Polyamines, Solid, Corrosive, N.O.S.	3259
Ammonia Solution, relative density between 0.880 and 0.957 at 15℃ in water, with more than 10% but not more than 35% ammonia by mass	2672
Ammonium Hydrogen Sulphate	2506
Ammonium Hydrogendifluoride, Solid	1727
Ammonium Hydrogendifluoride, Solution	2817
Ammonium Polysulphide, Solution	2818
Ammonium Sulphide, Solution	2683
Amyl Acid Phosphate	2819
Amyltrichlorosilane	1728
Anisoyl Chloride	1729
Antimony Pentachloride, Liquid	1730
Antimony Pentachloride, Solution	1731
Antimony Pentafluoride	1732
Antimony Trichloride, Liquid	1733
Antimony Trichloride, Solid	1733
Battery Fluid, Alkali	2797
Benzenesulphonyl Chloride	2225
Benzotrichloride	2226
Benzoyl Chloride	1736
Benzyl Chloroformate	1739

Chlorosilanes, Corrosive, Flammable, N.O.S.	2986
Chlorosilanes, Corrosive, N.O.S.	2987
Chlorosulphonic Acid, with or without sulphur trioxide	1754
Chromic Acid, Solution	1755
Chromic Fluoride, Solid	1756
Chromic Fluoride, Solution	1757
Chromium Oxychloride	1758
Chromosulphuric acid	2240
Copper Chloride	2802
Corrosive Liquid, Acidic, Inorganic, N.O.S.	3264
Corrosive Liquid, Acidic, Organic, N.O.S.	3265
Corrosive Liquid, Basic, Inorganic, N.O.S.	3266
Corrosive Liquid, Basic, Organic, N.O.S.	3267
Corrosive Liquid, Flammable, N.O.S.	2920
Corrosive Liquid, N.O.S.	1760
Corrosive Liquid, Oxidizing, N.O.S.	3093
Corrosive Liquid, Self-heating, N.O.S.	3301
Corrosive Liquid, Toxic, N.O.S.	2922
Corrosive Liquid, Water-Reactive, N.O.S.	3094
Corrosive Solid, Acidic, Inorganic, N.O.S.	3260
Corrosive Solid, Acidic, Organic, N.O.S.	3261
Corrosive Solid, Basic, Inorganic, N.O.S.	3262
Corrosive Solid, Basic, Organic, N.O.S.	3263
Corrosive Solid, Flammable, N.O.S.	2921
Corrosive Solid, N.O.S.	1759

Corrosive Solid, Oxidizing, N.O.S.	3084
Corrosive Solid, Self-Heating, N.O.S.	3095
Corrosive Solid, Toxic, N.O.S.	2923
Corrosive Solid, Water-Reactive, N.O.S.	3096
Crotonic Acid	2823
Cupriethylenediamine, Solution	1761
Cyanuric Chloride	2670
Cyclohexenyltrichlorosilane	1762
Cyclohexylamine	2357
Cyclohexyltrichlorosilane	1763
Di-(normal-Butyl) Amine	2248
Dibenzyldichlorosilane	2434
Dichloroacetic Acid	1764
Dichloroacetyl Chloride	1765
Dichlorophenyltrichlorosilane	1766
Dicyclohexylamine	2565
Diethyldichlorosilane	1767
Diethylenetriamine	2079
Diethylthiophosphoryl Chloride	2751
Difluorophosphoric Acid, Anhydrous	1768
Diisooctyl Acid Phosphate	1902
Diphenyldichlorosilane	1769
Diphenylmethyl Bromide	1770
Disodium Trioxosilicate	3253
Dodecyltrichlorosilane	1771
Dye, Liquid, Corrosive, N.O.S. or Dye	2801

Intermediate, Liquid, Corrosive, N.O.S.	
Dye, Solid, Corrosive, N.O.S. or Dye	3147
Intermediate, Solid, Corrosive, N.O.S.	
Ethanolamine or Ethanolamine Solution	2491
Ethyl Chlorothioformate	2826
Ethylenediamine	1604
Ethylphenyldichlorosilane	2435
Ferric Chloride, Anhydrous	1773
Ferric Chloride, Solution	2582
Fire Extinguisher Charges, corrosive liquid	1774
Fluoroboric Acid	1775
Fluorophosphoric Acid, Anhydrous	1776
Fluorosilicic Acid	1778
Fluorosulphonic Acid	1777
Formaldehyde Solution, with not less than 25% formaldehyde	2209
Formic Acid	1779
Fumaryl Chloride	1780
Gallium	2803
Hexadecyltrichlorosilane	1781
Hexafluorophosphoric Acid	1782
Hexamethylenediamine, Solid	2280
Hexamethylenediamine, Solution	1783
Hydrazine Hydrate or Hydrazine Aqueous Solution with not less than 37% but not more than 64% hydrazine, by mass	2030

Hydrazine, Anhydrous	2029
Hydriodic Acid	1787
Hydrobromic Acid	1788
Hydrochloric Acid	1789
Hydrofluoric Acid	1790
Hydrofluoric Acid and Sulphuric Acid Mixture	1786
Hydrogen Fluoride, Anhydrous	1052
Hydrogendifluorides, N.O.S.	1740
Hydroxylamine Sulphate	2865
Hypochlorite, Solution	1791
Iodine Monochloride	1792
Isophoronediamine	2289
Isopropyl Acid Phosphate	1793
Lead Sulphate with more than 3% free acid	1794
Lithium Hydroxide Monohydrate	2680
Lithium Hydroxide, Solution	2679
Maleic Anhydride, Solid or Molten	2215
Mercury, Metal	2809
Methacrylic Acid, Inhibited	2531
Methylphenyldichlorosilane	2437
Molybdenum Pentachloride	2508
N, N-Diethylethylenediamine	2685
N, N-Dimethylcarbamoyl Chloride	2262
N, N-Dimethylcyclohexylamine	2264
N-Aminoethylpiperazine	2815
Nitrating Acid, Mixture	1796

Nitrating Acid, Mixture, Spent	1826
Nitric Acid, Red Fuming	2032
Nitric Acid, other than red fuming, all concentrations	2031
Nitrobenzenesulphonic Acid (ortho-; meta-; para-)	2305
Nitrohydrochloric Acid	1798
Nitrosylsulphuric Acid, Solid or Liquid	2308
Nonyltrichlorosilane	1799
Octadecyltrichlorosilane	1800
Octyltrichlorosilane	1801
Perchloric Acid with not more than 50% acid, by mass	1802
Phenolsulphonic Acid, Liquid	1803
Phenylacetyl Chloride	2577
Phenylphosphorus Dichloride	2798
Phenylphosphorus Thiodichloride	2799
Phenyltrichlorosilane	1804
Phosphoric Acid, Liquid	1805
Phosphoric Acid, Solid	1805
Phosphorous Acid, solid or solution	2834
Phosphorus Oxybromide, Molten	2576
Phosphorus Oxybromide, Solid	1939
Phosphorus Oxychloride	1810
Phosphorus Pentabromide	2691
Phosphorus Pentachloride	1806
Phosphorus Pentoxide	1807

Phosphorus Tribromide	1808
Phosphorus Trioxide	2578
Phthalic Anhydride with more than 0.05% of Maleic Anhydride, Solid or Molten	2214
Piperazine, Solid or Solution	2579
Potassium Hydrogen Sulphate	2509
Potassium Hydrogendifluoride, Solid	1811
Potassium Hydrogendifluoride, Solution	1811
Potassium Hydroxide, Solid	1813
Potassium Hydroxide, Solution	1814
Potassium Monoxide	2033
Potassium Sulphide, Hydrated with not less than 30% water of crystallization	1847
Propionic Acid, solution containing not less than 80% acid	1848
Propionic Anhydride	2496
Propylenediamines	2258
Propyltrichlorosilane	1816
Pyrosulphuryl Chloride	1817
Rubidium Hydroxide, Solid	2678
Rubidium Hydroxide, Solution	2677
Selenic Acid	1905
Selenium Oxychloride	2879
Silicon Tetrachloride	1818
Sludge Acid	1906
Soda Lime	1907

Sodium Aluminate, Solution	1819
Sodium Borohydride And Sodium Hydroxide, Solution with not more than 12% Sodium Borohydride and not more than 40% Sodium Hydroxide, by mass	3320
Sodium Hydrogendifluoride	2439
Sodium Hydrosulphide, Solid with not less than 25% water of crystallizations or Solution	2949
Sodium Hydroxide, Solid	1823
Sodium Hydroxide, Solution	1824
Sodium Monoxide	1825
Sodium Sulphide, Hydrated, with at least 30% water	1849
Solids Containing Corrosive Liquid, N.O.S.	3244
Stannic Chloride Pentahydrate	2440
Stannic Chloride, Anhydrous	1827
Sulphamic Acid	2967
Sulphur Chlorides	1828
Sulphur Trioxide, Inhibited or Sulphur Trioxide, Stabilized	1829
Sulphuric Acid, Fuming	1831
Sulphuric Acid, Spent	1832
Sulphuric Acid, with more than 51% acid	1830
Sulphuric Acid, with not more than 51% acid or Battery Fluid, Acid	2796
Sulphurous Acid	1833
Sulphuryl Chloride	1834

Tetraethylenepentamine	2320
Tetrahydrophthalic Anhydrides with more than 0.05% maleic anhydride	2698
Tetramethylammonium Hydroxide, Solid or Liquid	1835
Thioglycolic Acid	1940
Thionyl Chloride	1836
Thiophosphoryl Chloride	1837
Titanium Tetrachloride	1838
Titanium Trichloride Mixture, non-pyrophoric	2869
Trichloroacetic Acid, Solid	1839
Trichloroacetic Acid, Solution	2564
Trichloroacetyl Chloride	2442
Triethylenetetramine	2259
Trifluoroacetic Acid	2699
Trimethylcyclohexylamine	2326
Trimethylhexamethylenediamines	2327
Vanadium Oxytrichloride	2443
Vanadium Tetrachloride	2444
Vanadium Trichloride	2475
Zinc Chloride, Anhydrous	2331
Zinc Chloride, Solution	1840
Zirconium Tetrachloride	2503
normal-Butyric Acid	2820
normal-Valeryl Chloride	2502

CLASS 9
MISCELLANEOUS DANGEROUS SUBSTANCES, MATERIALS AND ARTICLES WHICH PRESENT A DANGER NOT COVERED BY OTHER CLASSES

Proper Shipping name	UN number
Air Bag Inflators or Air Bag Modules or Seat-belt Pretensioners	3268
Acetaldehyde Ammonia	1841
Benzaldehyde	1990
Dibromodifluoromethane	1941
Plastics Moulding Compound in dough, sheet or extruded rope form, evolving flammable vapour	3314
Polychlorinated Biphenyls	2315
Polyhalogenated Biphenyls, Liquid or Polyhalogenated Terphenyls, Liquid	3151
Polyhalogenated Biphenyls, Solid or Polyhalogenated Terphenyls, Solid	3152
Polymeric Beads, Expandable, evolving flammable vapour	2211
Zinc Dithionite	1931
para-Dichlorobenzene	3082

CLASS 9A

SUBSTANCES, MATERIALS AND ARTICLES WHICH ARE EXEMPTED FROM THE PROVISIONS OF SECTIONS 6 TO 11 OF THE ORDINANCE

Proper Shipping name	UN number
Cotton (raw)	----
Cotton waste	----
Kapok	----
Matches	----
Polytetrafluoroethylene	----
Polymethylmethacrylate (raw material)	----
Polypropylene (raw material)	----
Polystyrene (raw material)	----
Polythene (raw material)	----
Polyvinyl Chloride (raw material)	----
Rubber (raw)	----
Rubber tyres	----

SCHEDULE 2 [SS. 2 & 3]

DANGEROUS GOODS SUBJECT TO CONTROL AT SEA ONLY

Substances, materials or articles -

(a) that are classified in the IMDG Code as dangerous for carriage by sea;

(b) that are specified in Class 3.4 of Schedule 1; or

(c) the properties of which would reasonably be

regarded to be dangerous when carried by sea, and includes empty receptacles and residues in tanks or cargo holds which have been used previously for the carriage of dangerous goods, unless such receptacles, tanks or cargo holds have, after such use, been -

(i) cleaned and dried;

(ii) gas freed or ventilated where appropriate; or

(iii) where the previous contents were radioactive materials, cleaned and adequately closed,

but does not include substances, materials or articles forming part of the equipment or stores of a vessel.".

Consequential Amendments

Shipping and Port Control Ordinance

13. Interpretation

Section 2 of the Shipping and Port Control Ordinance (Cap. 313) is amended -

(a) by repealing the definition of "dangerous goods" and substituting -

""dangerous goods"（危險品）means substances, materials or articles -

(a) that are classified in the IMDG Code as dangerous for carriage by sea;

(b) that are specified in Class 3.4

of Schedule 1 to the Dangerous Goods Ordinance (Cap. 295); or

(c) the properties of which would reasonably be considered to be dangerous when carried by sea,

and includes empty receptacles and residues in tanks or cargo holds which have been used previously for the carriage of dangerous goods, unless such receptacles, tanks or cargo holds have, after such use, been -

(i) cleaned and dried;

(ii) gas freed or ventilated where appropriate; or

(iii) where the previous contents were radioactive materials, cleaned and adequately closed,

but does not include substances, materials or articles forming part of the equipment or stores of a vessel;";

(b) by adding -

""IMDG Code"（《國際海運危險貨物守則》）means the International Maritime Dangerous Goods Code published by the International Maritime Organization, as amended or revised by the Organization from time to

time;".

Merchant Shipping (Safety) Ordinance

14. Interpretation

Section 2(1) of the Merchant Shipping (Safety) Ordinance (Cap. 369) is amended -

(a) by repealing the definition of "dangerous goods" and substituting -

""dangerous goods"（危險品）means substances, materials or articles -

(a) that are classified in the IMDG Code as dangerous for carriage by sea;

(b) that are specified in Class 3.4 of Schedule 1 to the Dangerous Goods Ordinance (Cap. 295); or

(d) the properties of which would reasonably be considered to be dangerous when carried by sea,

and includes empty receptacles and residues in tanks or cargo holds which have been used previously for the carriage of dangerous goods, unless such receptacles, tanks or cargo holds have, after such use, been -

(i) cleaned and dried;

(ii) gas freed or ventilated where appropriate; or

(iii) where the previous contents were radioactive materials, cleaned and adequately closed,

but does not include substances, materials or articles forming part of the equipment or stores of a vessel;";

(b) by adding -

""IMDG Code"（《國際海運危險貨物守則》）means the International Maritime Dangerous Goods Code published by the International Maritime Organization, as amended or revised by the Organization from time to time;".

Merchant Shipping (Local Vessels) Ordinance

15. Interpretation

Section 2 of the Merchant Shipping (Local Vessels) Ordinance (Cap. 548) is amended -

(a) by repealing the definition of "dangerous goods" and substituting -

""dangerous goods"（危險品）means substances, materials or articles -

(a) that are classified in the IMDG Code as dangerous for carriage by sea;

(b) that are specified in Class 3.4 of Schedule 1 to the Dangerous Goods Ordinance (Cap. 295); or

(c) the properties of which would reasonably be considered to be dangerous when carried by sea,

and includes empty receptacles and residues in tanks or cargo holds which have been used previously for the carriage of dangerous goods, unless such receptacles, tanks or cargo holds have, after such use, been -

(i) cleaned and dried;

(ii) gas freed or ventilated where appropriate; or

(iii) where the previous contents were radioactive materials, cleaned and adequately closed, but does not include substances, materials or articles forming part of the equipment or stores of a vessel;";

(b) by adding -

""IMDG Code"（《國際海運危險貨物守則》）means the

International Maritime Dangerous Goods Code published by the International Maritime Organization, as amended or revised by the Organization from time to time;".

16. Interpretation

Section 37 is amended, in the definition of "修理", in paragraph (b), by repealing "危險貨物" and substituting "危險品".

Explanatory Memorandum

The purpose of this Bill is to make miscellaneous amendments to the Dangerous Goods Ordinance (Cap. 295) ("the Ordinance").

2. The Bill -

(a) revises the definitions of "dangerous goods", "explosive" and "vessel" and introduces new definitions of "IMDG Code" and "UN number" (clause 2);

(b) amends the application section to provide that the Ordinance applies only to the substances, materials and articles contained in the Schedules to it and empowers the Secretary for Security to amend the Schedules (clause 3);

(c) amends the regulation making section to empower the Director of Marine to grant exemptions in respect of shipping and to set the maximum fine at level 6

(clause 4);

(d) enacts a new section empowering the Director of Fire Services and the Director of Marine to issue codes of practice (clause 5);

(e) increases the penalties for breach of a licence (clause 6);

(f) creates an exception to the notice requirement in respect of the conveyance of dangerous goods (clause 7);

(g) amends the search and seizure provisions to include officers of the Marine Department in the group of officers authorized to exercise the powers (clause 8);

(h) amends sections to set the fines at various levels (clause 9 and 10);

(i) enacts a new section that provides for compliance with the International Maritime Dangerous Goods Code as an alternative to complying with the requirements under the Ordinance (clause 11);

(j) adds new Schedules itemizing the substances to which the Ordinance applies (clause 12);

(k) makes consequential amendments to other Ordinances (clause 13 to 16).

Annex I

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Proposed mendments to ngerous Goods dinance

tion Document

March 1999

Civil Engineering Department

Fire Services Department

Marine Department

2·73

1. Purpose

1.1 This document introduces the proposed legislative amendments to the Dangerous Goods Ordinance, Chapter 295, Laws of Hong Kong and its 4 Subsidiary Regulations (collectively named "the Legislation"). These proposals include bringing the provisions for classification, labelling and packaging in line with international standards, updating the provisions for exempted quantities and the penalties, and tightening the control over conveyance of dangerous goods other than Category 1 (Explosives), Category 2 (Compressed Gases) and Category 5 (Flammable Liquids).

1.2 Comments on these proposals are hereby invited. Please send your comments to the Fire Services Department (FSD) by mail, facsimile (fax) or electronic-mail (E-mail) at the following addresses before ***30 April 1999***:-

	FSD
Mail	*FIRE PROTECTION COMMAND HEADQUARTERS, 5TH FLOOR, FSHQ BUILDING, No. 1 HONG CHONG ROAD, TSIM SHA TSUI EAST, KOWLOON.*
Fax	*2723 2197*
E-mail	L*hkfsdfpb@hkstar.com.*

1.3 We would wish either in discussion or in any subsequent report, whether privately or publicly, to be able to refer to and attribute comments submitted in response to this consultation document. Any request to treat all or part of a response in confidence will be respected, but if no such request is made it will be assumed that the response is not intended to be confidential.

2. Background

2.1 The Dangerous Goods Ordinance (the Ordinance), Chapter 295, Laws of Hong Kong is a piece of legislation which provides for the controlling measures of dangerous goods on land and at sea. Under the Ordinance, there are 4 Subsidiary Regulations, which are: -

- Dangerous Goods (Application and Exemption) Regulations
- Dangerous Goods (General) Regulations
- Dangerous Goods (Government Explosives Depots) Regulations
- Dangerous Goods (Shipping) Regulations

2.2 "The Legislation" now stipulates about 400 types of dangerous goods which are classified into 10 Categories in accordance with their characteristics, e.g. inflammable, toxic, corrosive, spontaneous combustible, dangerous when wet, etc. In addition to the classification of such goods, "the Legislation" also provides for the control of such goods in other aspects, including proper labelling and packaging of such goods, safety precautions during manufacture, storage, use or conveyance of such goods on land and safety measures in the course of shipment and transshipment of such goods.

2.3 Presently, the provisions for classification, labelling and packaging are different in many ways from the United Nations' (UN') Recommendations and International Maritime Dangerous Goods (IMDG) Code, on which most overseas countries' dangerous goods legislation is based. When dangerous goods are imported, exported or re-exported, they are required to comply with two distinctive sets of requirements prevailing in Hong Kong and other countries. This has created practical difficulty to the local trades and users. Furthermore, these international standards have stipulated a total of about 2,000 types of dangerous goods and that most of these dangerous goods are often found in Hong Kong but are not covered by the Legislation". In order to bring these provisions in line with the international standards, the Commisioner of Mines of the Civil Engineering Department (CED), Director of Fire Services and Director of Marine (i.e. the controlling authorities under the Legislation") had carried out a comprehensive review of the provisions within the purview of their Departments. The review also covered the provisions for ***exempted quantities*** (*#see the meaning in para. 3.2.4.1 below*) and the penalties for offences under "the Legislation".

2.4 In addition to the above review, the Director of Fire Services had also engaged a consultant to study the conveyance of dangerous goods other than Category 1 (Explosives), Category 2 (Compressed Gases) and Category 5 (Flammable Liquids) on road by vehicles in the wake of the cyanide spillage incident at Tai Po Road occurred in December 1997. This study was completed in late December 1998 and it was recommended that the proposed measures for strengthening the control over the conveyance of these goods on road by vehicles should be included into the above proposals as one package.

2.5 The Government is undertaking a territory-wide consultation on the proposals to amend "the Legislation". Comments on such proposals are much welcome.

3. The Proposals

The following paragraphs give more detailed information on the proposed amendments to "the Legislation".

3.1 Scope of Amendments

The proposed amendments include the provisions for the following controlling measures: -

- Classification;
- Labelling;
- Packaging;
- Exempted Quantities;
- Conveyance of dangerous goods other than Categories 1, 2 and 5 on road by vehicles; and
- Penalties

3.2 Detailed Proposals

3.2.1 Classification

3.2.1.1 In view that most dangerous goods in Hong Kong are imported and exported by sea, we propose the classification of dangerous goods in Hong Kong to follow the IMDG Code with minor variations to suit local circumstances where appropriate. To that effect, the dangerous goods listed in "the Legislation" will be

classified into 9 Classes (currently there are 10 Categories). The proposed Class 3 includes Classes 3.1, 3.2, 3.3 and 3.4. The proposed Class 4 includes Classes 4.1, 4.2 and 4.3. The proposed Classes 5 and 6 include Classes 5.1 and 5.2 and Classes 6.1 and 6.2 respectively. With these changes, the classification system currently stipulated in the Dangerous Goods (Application and Exemption) Regulations will be substantially revised. Having said that, there will however, be some difference between the list of dangerous goods for which the control on land and the list for which the control at sea shall apply (see the following paragraphs).

3.2.1.2 We plan to reclassify the dangerous goods currently stipulated in the Dangerous Goods (Application and Exemption) Regulations in accordance with the IMDG Code and set out such goods in a list conforming to the classification under the IMDG Code. In addition to these goods, we also plan to include all dangerous goods currently listed in the IMDG Code (1997 Edition) into that list with the exception of dangerous goods in Class 1, Class 6.2 and Class 7 and some other dangerous goods (see paragraphs 3.2.1.3 to 3.2.1.6 below). To that effect, the total number of dangerous goods in that list will be increased to about 1,600. Any goods appearing in that list shall be subject to "the Legislation" 's control on land.

3.2.1.3 Regarding the control over shipment and transshipment of dangerous goods at sea, we propose that <u>any goods</u> stipulated in IMDG Code shall be subject to the control of the Dangerous Goods (Shipping) Regulations. As the list of dangerous goods to be applied on land is slightly different from that at sea, a provision will be introduced to provide for the interface between the control at sea and control on land.

3.2.1.4 Presently, infectious substances and radioactive substances are not included in the Dangerous Goods (Application and Exemption) Regulations. That is to say, such goods are <u>not</u> controlled by "the Legislation". In fact, such goods are being controlled under the Pharmacy and Poisons Ordinance (Chapter 138, Laws of Hong Kong) and the Radiation Ordinance (Chapter 303, Laws of Hong Kong). To

maintain this position, we propose that dangerous goods currently stipulated in Class 6.2 (Infectious substances) and Class 7 (Radioactive substances) of the IMDG Code should not be included into the list referred to in paragraph 3.2.1.2 and thus, "the Legislation" 's control on land shall not apply to such goods.

3.2.1.5 In addition, the proposed list of dangerous goods for which "the Legislation" 's control on land applied will also be different in some other ways from that under the IMDG Code. Firstly, the IMDG Code does not regard diesel oil and furnace oil with a flash point over 61℃ (i.e. dangerous goods in the existing Category 5, Class 3) as dangerous goods. However, we propose to introduce a Class 3.4 to cover such goods with a view to maintaining the control over such goods both on land and at sea. Similarly, we also propose to introduce a Class 9A to incorporate matches/plastics/rubber, etc. currently stipulated in Category 9A of "the Legislation" to maintain the control over the storage of such goods on land. However, we do not intend to extend this variation to the IMDG Code to cover the control over shipment and transshipment of such goods. Secondly, we also plan to maintain the current position of excluding certain goods, e.g. asbestos, ammonium nitrate fertilizers, etc. from "the Legislation" 's control on land albeit such goods are currently stipulated in the IMDG Code. To that effect, such goods will not be incorporated into the list referred to in paragraph 3.2.1.2. However, we propose that such goods should be subject to "the Legislation" 's control at sea under the Dangerous Goods (Shipping) Regulations.

3.2.1.6 Furthermore, as regards dangerous goods in Class 1 (Explosives), we plan to introduce a registration system under "the Legislation". Any person who wishes to manufacture, store, use or convey any explosives in Hong Kong is required to apply for registration of such explosives with the Commissioner of Mines, otherwise he/she shall commit an offence. The register of explosives will be revised and published in the gazette by the Commissioner of Mines from time to time.

3.2.1.7 A comparison of the proposed classification system and the existing classification system is at **Annex I**. Your attention is, in particular, drawn to the difference between the flash points in the definitions of the existing Category 5 and the proposed Class 3.

3.2.2 Labelling

3.2.2.1 We propose that the labelling of dangerous goods should follow the IMDG Code with minor variations where appropriate. For IMDG Code's dangerous goods labels, there may or may not be literal descriptions of the risks concerned. If literal descriptions are shown, the language used to describe the risks is optional to the local authorities. With this option, we propose that Hong Kong's dangerous goods labels should bear both Chinese and English descriptions with a view to making them more user friendly, especially to members of the general public. The English descriptions will follow IMDG Code's recommendations whereas the Chinese descriptions will follow the "國際海上危險貨物運輸規則" issued by the Central People's Government of the People's Republic of China.

3.2.2.2 To that effect, the dangerous goods labels currently specified in the First Schedule to the Dangerous Goods (General) Regulations have to be replaced completely. However, we intend that such proposed labels should be applied to dangerous goods on land only. As regards the shipment and transshipment of dangerous goods at sea or when the dangerous goods are conveyed on land through Hong Kong as part of their international journey, we propose that either such bilingual labels or the IMDG Code's labels shall be acceptable and applicable. This is for the purpose of facilitating the shipment, transshipment and conveyance on land of such goods across the territory.

3.2.2.3 With a view to conforming to the international rules, we also plan to introduce a provision to require freight containers used to convey dangerous goods to bear the labels of such goods. Again, we propose that such labels should either conform to the labels as proposed in para. 3.2.2.1 above or conform to the IMDG Code's labels.

3.2.2.4 A comparison between the existing and the proposed dangerous goods labels is at **Annex II**. More specifically, we propose that the labels should be of diamond shape with their colour, signs and literal descriptions conforming to those shown in Annex II. Furthermore, each type of dangerous goods will be required to have its outer package to bear a "Label of Class" to give warning of the main risk of such goods. If the dangerous goods also possess other subsidiary risk(s), its outer package will have to bear such other label or labels to give warning of the subsidiary risk(s). Your attention is drawn, in particular that only the "Label of Class" will show the Class number on its bottom corner. For subsidiary labels, no Class number will be shown.

3.2.3 Packaging

3.2.3.1 Currently, each type of dangerous goods is required to be packed in accordance with the packaging methods stipulated in the Dangerous Goods (General) Regulations to provide proper containment of such goods to safeguard the users and any other persons who may come into contact with such goods. More specifically, such goods is required to be stored inside a proper inner/main packing, which is then required to be enclosed in a proper outer packing to give further containment of such goods. Appropriate absorbent materials may need to be filled inside the space between the inner/main packing and outer packing to absorb any leaked contents or the vibration force. In addition, there are also specific requirements for the percentage of air space (i.e. ullage) inside the inner/main packing, the material used for making the inner/main packing and outer packing and the maximum gross quantity of the contents in each type of inner/main packing, etc..

3.2.3.2 We propose the packaging requirements to follow the IMDG Code, for which there are also specific requirements on the inner/main packing, outer packing and the ullage. However, with regard to the maximum gross quantity of the contents inside the inner/main packing, there will be 3 different levels dependent upon the level of risk of such goods stored inside such packing. In this regard, each type of dangerous goods (except those in Classes 1 and 2 and those possessing some distinctive characteristics) will be given a Packaging Group Number, i.e. Packaging Group I, Packaging Group II and Packaging Group III, representing the level of risk posed by such goods shown below: -

- Packaging Group I(PkG I)-Great Danger
- Packaging Group II(PkG II)-Medium Danger
- Packaging Group III(PkG III)-Minor Danger

3.2.3.3 As regards the packaging requirements for cylinders used to store compressed gases in Class 2 and tanks used to store dangerous goods in liquid form in bulk on land, we propose to depart from the IMDG Code with a view to adopting the current packaging requirements for such goods under Regulation 64 and 99A of the Dangerous Goods (General) Regulations to ensure a more rigid control over such packings on land. That is to say, such cylinders and tanks will be required to be approved by the Director of Fire Services before they can be used to store such goods. However, "the Legislation" only requires the storage tanks for diesel/furnace oil in Category 5, Class 3 (i.e. proposed Class 3.4) to be approved by the Director of Fire Services whereas the tanks used to store other dangerous goods in liquid form in bulk are not subject to such requirement. As such, we propose to extend the above requirement (i.e. for applying the Director's approval) to the storage tanks for such other dangerous goods in liquid form. Such departure from IMDG Code will

not be applied to dangerous goods at sea. That is to say, the packaging requirements for dangerous goods at sea will follow the IMDG Code.

3.2.3.4 Furthermore, we also plan to follow the UN's Recommendations to exempt small containers of dangerous goods from the proposed labelling and packaging requirements on the ground that the legislation is dedicated to provide for the control of medium and large quantity of dangerous goods. Such "limited quantity" for the dis-application of the provisions for labelling and packaging under the Legislation" is enclosed in **Annex III**.

3.2.4 Exempted Quantities

3.2.4.1 The exempted quantity of dangerous goods means the maximum quantity of such goods, for which the licensing control over the storage, use or conveyance of such goods under Section 6 of the Ordinance shall not apply. The purpose of introducing such provision is to permit certain dangerous goods to be stored, used or conveyed generally in such small quantity that the premises or vehicle concerned need not be subject to the above licensing requirements.

3.2.4.2 Presently, the provisions for exempted quantities are stipulated in the Dangerous Goods (General) Regulations. For dangerous goods in Category 1 (i.e. proposed Class 1) and Category 2 (i.e. proposed Class 2), there is only one level of exempted quantities. However, as regards dangerous goods in other Categories, there are two levels. One level is to be applied generally and the other is to be applied when such goods is used for medical, laboratory purposes, etc. Whether or not a dangerous goods is provided with an exempted quantity is dependent on the risk posed by such goods. For example, there is no exempted quantity provided for the toxic gas "Hydrogen Cyanide".

3.2.4.3 We propose that the provisions for exempted quantities should be revised and updated to suit local circumstances and that such provisions should be removed to the Dangerous Goods (Application and Exemption) Regulations. We plan to introduce two levels of exempted quantities for dangerous goods in Class 2 to Class 9 dependent on whether such goods are used in industrial buildings/premises or non-industrial buildings/premises. Exempted quantities provided for the level of industrial" will generally be higher than "non-industrial". When the dangerous goods are used for medical, laboratory purposes, etc, we propose that the level for industrial" should be applied. As regards dangerous goods in Class 1, we propose to extend the provisions for exempted quantities to cover the storage of certain explosives which are to be used for exigency purposes.

3.2.4.4 In view of the enhancement of fire protection in buildings, we plan to increase the exempted quantities for certain dangerous goods with a view to providing greater flexibility to the trades, in particular those in chemical wastes disposal. Regarding compressed gases in Class 2, we propose to express their exempted quantities in terms of water capacity (currently they are expressed in terms of "number of cylinders") with a view to giving a more accurate measurement. In simple terms, water capacity means the quantity of water, measured in litres, required to fill the internal volume of a gas cylinder.

3.2.4.5 We propose to extend the aggregate limit currently governing the mixed storage or conveyance of different types of dangerous goods in Category 2 and Category 5, Class 1 and Class 2 to cover dangerous goods in other Classes with a view to avoiding a further increase in the aggregate of quantities over the storage or conveyance of different types of dangerous goods pursuing to the proposed increase in the exempted quantities for dangerous goods. To that effect, if the aggregate of the quantities of any dangerous goods stored in a premises or conveyed on a vehicle exceeds such limit, the licensing control under Section 6 of the Ordinance shall apply whether or not, the exempted quantities for such goods are exceeded.

3.2.4.6 The proposed aggregate limit for dangerous goods in Class 2 will be 450 litres water capacity for "industrial" and 300 litres water capacity for "non-industrial". In cases where both compressed gases and refrigerated gases are involved, we propose one litre of refrigerated gas to be deemed equivalent to 6 litres water capacity. The proposed aggregate quantity limit for dangerous goods in Classes 3.1 to 3.3 will be 150 litres for "industrial" and 100 litres for "non-industrial". As regards dangerous goods in Classes 4 to 9, we propose that the aggregate limit should be 1000 litres or kilogrammes for "industrial" and 100 litres or kilogrammes for non-industrial". For calculation purpose, we propose that one kilogramme of dangerous goods in Classes 4 to 9 in solid form should be deemed equivalent to one litre of dangerous goods in such Classes in liquid form.

3.2.4.7 With regard to the conveyance of dangerous goods in Classes 2 to 9, we propose that the respective aggregate limits for "non-industrial" should apply.

3.2.4.8 The proposed aggregate limits for governing the storage and conveyance of dangerous goods in different Classes are summarized in **Annex IV** for easy reference.

3.2.5 Conveyance

3.2.5.1 Presently, the licensing control under Section 6 of the Ordinance applies to the conveyance on land of dangerous goods in Categories 1, 2 and 5 only (i.e. proposed Classes 1, 2 and 3). The safe conveyance on land of dangerous goods in other Categories is dependent upon the proper packaging and labelling of such goods as well as the proper handling by the persons involved in the conveyance of such goods.

3.2.5.2 The consultant mentioned in paragraph 2.4 above recommends that the control over the conveyance on land of dangerous goods other than Classes 1, 2 and 3 should be strengthened by imposing a package of legislation, similar to that adopted by UK, USA, Australia and Singapore. The main legislative measures recommended by the consultant are as follows: -

- The vehicles used to convey such goods shall be licensed by FSD and that these vehicles shall be permitted to convey together with any other goods, except dangerous goods in Class 1 (Explosives), Class 2 (Compressed Gases) and Class 3 (Flammable Liquids) and certain incompatible goods.

- The above licensing requirment shall not apply when the aggregate of the quantities of such goods does not exceed 100 kg or 100 litres or when such goods are being conveyed on land through Hong Kong as part of their international journey.

- Drivers of these vehicles shall be required to undertake a basic training course and shall be issued with a certificate after completing the course. In the longer term, only those drivers who possess such certificate shall be permitted to convey such goods.

- Consignors of such goods shall provide a transport document and a declaration in writing to the operators of these vehicles (i.e. the persons who undertake to use the vehicles to consign such goods), giving relevant information on such goods, including their classification, quantities, safety instructions, emergency handling procedures, etc. and declaring that such goods are properly packed.

- The operators and drivers shall inspect such goods against the aforesaid document and declaration and shall not commence the journey unless the results of inspection are satisfactory. Such document and declaration shall be passed to the drivers and thence, the consignees together with such goods.

- The operators shall ensure such goods are properly loaded and secured on board the vehicle and shall provide proper placards and emergency equipment to the vehicles.

- The drivers shall observe the safety instructions and emergency procedures for such goods as stipulated in the transport document as well as required to adopt other safety practices, including no smoking, eating, or drinking on board the vehicles, no attempt to unseal the packings of such goods, etc.

3.2.5.3 The above recommendations have been examined and endorsed by the Steering Group for the study, comprising representatives of the Fire Services Department, Electrical and Mechanical Services Department, Environmental Protection Department, Transport Department and Government Laboratory. We propose to introduce new regulations in "the Legislation" to implement such recommendations.

3.2.6 Penalties

3.2.6.1 The Ordinance was enacted in 1956 and the penalty provisions were last revised in 1984. As such, we consider it necessary to revise and update the penalty provisions in conjunction with the above review and study.

3.2.6.2 The review of the penalty mentioned in paragraph 2.3 above has taken account of the penalties imposed by court in 1993-1998, the penalty provisions in other legislation and the cumulated inflation since the enactment of the relevant provisions.

3.2.6.3 The above review notes that the composite consumer price indices have increased by about 300% after the enactment of such provisions. As such, the maximum fines under these provisions are proposed to be suitably adjusted with a view to maintaining their deterrent effect. Furthermore, in the wake of the recent incidents involving dangerous goods, we also propose to introduce a higher level of penalties to those persons who are found guilty for the offences regarding to the manufacture, storage, use or conveyance of dangerous goods without a valid licence (Section 6 of the Ordinance refers) or the failure to comply with the licensing conditions (Section 9 of the Ordinance refers) for more than one time. That is to say, the accused is liable to be subject to more severe punishment on a second and subsequent conviction for these two offences.

3.2.6.4 In this regard, we propose to increase all maximum fines under "the Legislation" by 3 to 4 times with the highest maximum fines becoming $100,000 (currently $25,000). However, as regards to the second or subsequent conviction of the above two offences, we propose that the penalty for contravening the licensing control (i.e. Section 6 of the Ordinance) shall be subject to a maximum fine of $200,000 and 12 months imprisonment whereas the penalty for the breach of licensing requirements (i.e. Section 9 of the Ordinance) will be subject to a maximum fine of $100,000 and 3 months imprisonment.

3.2.6.5 Furthermore, we also plan to express such maximum fines in terms of level of fines" as stipulated in Schedule 8 of the Criminal Procedure Ordinance (Chapter 221, Laws of Hong Kong) to facilitate future adjustment in accordance with changes in consumer price indices.

3.2.7 Other Legislative Amendments

3.2.7.1 With the above changes a provision will be introduced to provide for the interface between the control of dangerous goods at sea and on land. Furthermore, minor consequential legislative amendments will also be made in other legislation, e.g. the Merchant Shipping (Fees) Regulations (Chapter 281, Laws of Hong Kong), Shipping and Port Control Ordinance (Chapter 313, Laws of Hong Kong), Pilotage Ordinance (Chapter 84, Laws of Hong Kong), etc.

3.2.7.2 In addition, we also plan to make other amendments to the legislation. These include the extension of the hydraulic test intervals of certain gas cylinders which are used to store compressed gases for fire suppression purposes and that such cylinders are being secured in a position approved by the Director of Fire Services and less susceptible to damage. To that effect, the first and second hydraulic test intervals of such cylinders as required under "the Legislation" will be extended from 5 years to 10 years.

3.2.7.3 As regards the control over the storage of freight containers loaded with dangerous goods in the container port terminals under the existing Dangerous Goods (General) Regulations, we propose to transfer the controlling authority from the Director of Marine to the Director of Fire Services with a view to streamlining the control of dangerous goods on land and at sea.

3.2.7.4 Furthermore, minor amendments will also be made to the Dangerous Goods (Government Explosives Depots) Regulations to simplify the fee structure for the storage or delivery of explosives.

3.3 Controlling Authorities

If the above proposals are implemented, the controlling authorities will be as follows: -

- The Commissioner of Mines will be the controlling authority over dangerous goods in Class 1 (Explosives) on land [existing Category 1]

- The Director of Fire Services will be the controlling authority over dangerous goods in Class 2 (except ⋆ Liquefied Petroleum Gas (LPG)) to Class 9 and Class 9A (including the proposed Class 3.4 (Diesel Oil and Furnace Oil)) on land [existing Categories 2 to 10, including Category 9A].

- The Director of Marine will be the controlling authority over all dangerous goods currently stiuplated in the IMDG Code plus the proposed Class 3.4 at sea.

⋆ - For LPG, the controlling authority will continue to be vested upon with the Director of Electrical and Mechanical Services in accordance with the Gas Safety Ordinance, Chapter 51, Laws of Hong Kong.

4. Technical Instructions

The Commissioner of Mines and Director of Fire Services propose to prepare and issue Technical Instructions to give details on the controlling measures on the classification, labelling, packaging and exempted quantities for dangerous goods in Class 1 and Classes 2 to 9A respectively. Apart from these measures, the Technical Instructions will also contain some other information pertaining to such goods, for example their properties, UN numbers, etc. with a view to making the Technical Instructions a self-contained publication on such goods.

5. Consultation

All the above proposals have been submitted to and endorsed by the Dangerous Goods Standing Committee (DGSC), comprising representatives of the relevant government departments, industries and trades. Its function is to constantly review the control over dangerous goods in Hong Kong and to advise the Government on the better control over such goods.

6. Enquiry

For enquiry, you may call the Dangerous Goods Ordinance Review hotline 2733 7590 at the following hours (except Sunday and public holiday): -

(a) Monday to Friday

9:00 am - 12:00 p.m.

14:00 p.m. - 17:00 p.m.

(b) Saturday

9:00 a.m. - 12:00 p.m.

7. Reference Materials

Annex I - Comparison of the proposed and existing classification systems

Annex II - Comparison of the existing and proposed labelling systems

Annex III "Limited quantity" for dis-application of labelling and packaging requirements

Annex IV Proposed aggregate limits governing the storage and conveyance on land of dangerous goods

ANNEX I

Comparison of the Proposed and Existing classification systems

Properties	Proposed Classification	Existing Classification under DGO
Explosives	Class 1	Category 1
Compressed gases	Class 2	Category 2
Flammable liquids having a flash point below -18℃ (0℉) closed cup test	Class 3.1	Category 5 Class 1 ★
Flammable liquids having a flash point of -18℃ (0℉) up to but not including 23℃ (73℉) closed cup test	Class 3.2	
Flammable liquids having a flash point of 23℃ (73℉) up to and including 61℃ (141℉) closed cup test	Class 3.3	Category 5 Class 2 ★
Flammable liquids having a flash point exceeding 61℃ closed cup test	Class 3.4	Category 5 Class 3 ★
Flammable solids	Class 4.1	Category 8
Substances liable to spontaneous combustion	Class 4.2	Category 9
Substances which become dangerous in contact with water	Class 4.3	Category 6
Oxidizing substances	Class 5.1	Category 7
Organic peroxides	Class 5.2	Category 10
Toxic substances	Class 6.1	Category 4
Corrosives	Class 8	Category 3
Miscellaneous #	Class 9	-
Combustible goods exempted from Section 6 to 11 of the Ordinance	Class 9A	Category 9A

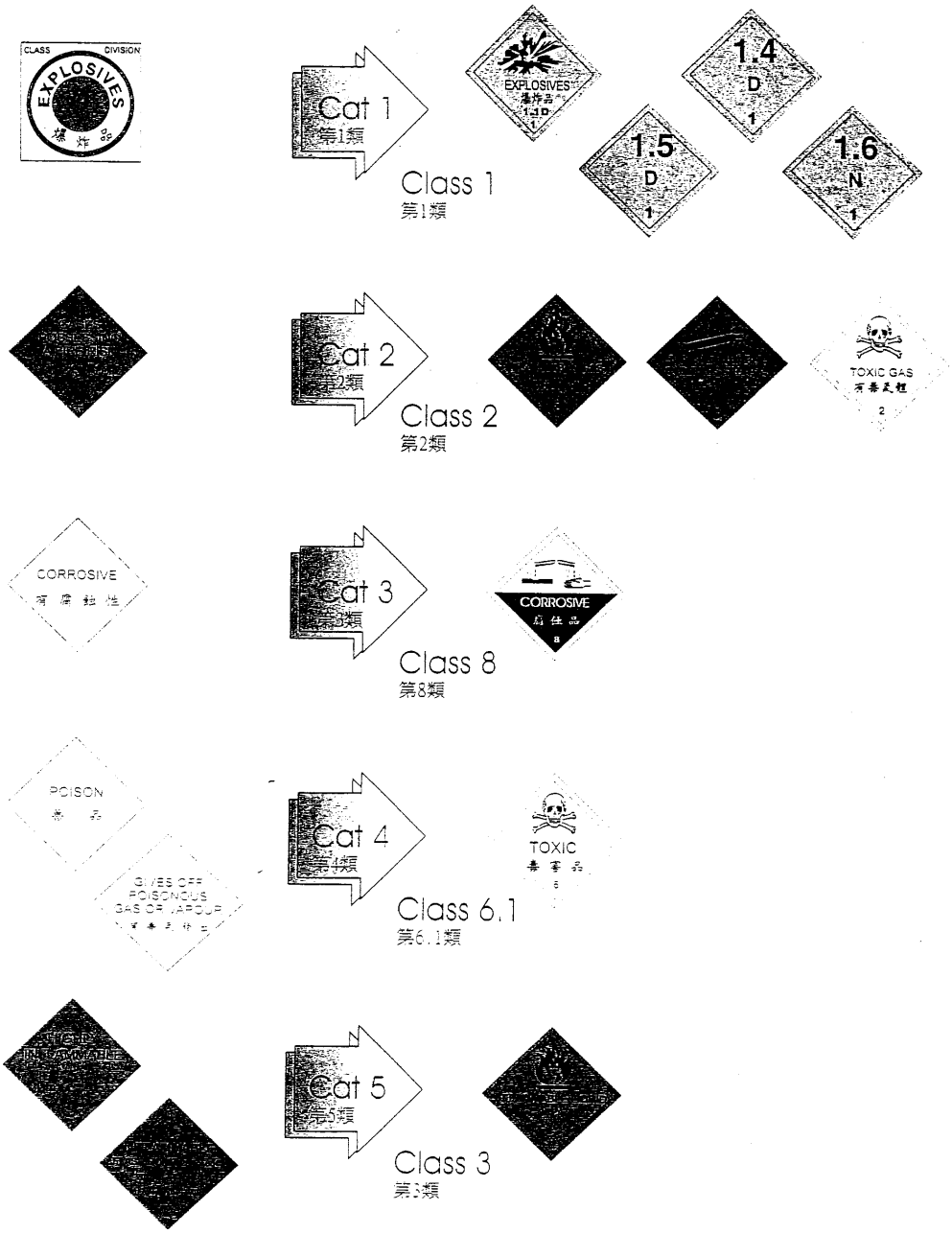
Note: *(i)★ The generic definitions of the existing Class 1, Class 2 and Class 3 in Category 5 are as follows: -*
Class 1 Substances having a flash point below 23℃
Class 2 Substances having a flash point of or exceeding 23℃ but not exceeding 66℃
Class 3 Substances having a flash point of or exceeding 66℃

(ii)# Most of the dangerous goods in the proposed Class 9 are currently not stipulated under "the Legislation".

(iii) "Closed Cup Test" means a testing method conforming to British Standard BS2000 Part 170 or equivalent where a closed receptacle apparatus is utilized to determine the flash point of a flammable liquid.

ANNEX II
附件II

Comparison of the Existing and Proposed Labelling systems
現行和建議的標籤制度比較



Cat 6
第6類

Class 4.3
第4.3類

OXIDISING AGENT
氧 化 劑

Cat 7
第7類

Class 5
第5類

Cat 8
第8類

Class 4.1
第4.1類

Cat 9
第9類

Class 4.2
第4.2類

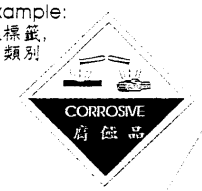
As specified
按指定

Cat 10
第10類

Class 9
第9類

Subsidiary labels 次要標籤

Subsidiary risk labels are similar to the above labels, but they should not bear the class number in the bottom corner. For example:
次要危險標籤類似上述標籤，但不會在底部角落註明類別編號，例如：



ANNEX III

"Limited Quantity" for Dis-application of
Labelling and Packaging Requirements

Class **(1)**	**Packaging group** **(2)**	**State** **(3)**	**Maximum quantity per inner packaging** **(4)**
2	-	Gas	#120 m*l* (in metal or plastics packaging)
2	-	Gas	120 m*l* (in glass packaging)
3	II	Liquid	1 *l* (in metal packaging); or 500 m*l* (in glass or plastics packaging)
3	III	liquid	5 *l*
4.1	II	Solid	500 g
4.1	III	Solid	3 kg
4.3	II	Liquid or solid	500 g
4.3	III	Liquid or solid	1 kg
5.1	II	Liquid or solid	500 g
5.1	III	Liquid or solid	1 kg
★5.2	II	Solid	100g
★5.2	II	Liquid	25 m*l*
@5.2	II	Solid	500 g
@5.2	II	Liquid1	25 m*l*
6.1	II	Solid	500 g
6.1	II	Liquid	100 m*l*
6.1	III	Solid	3 kg
6.1	III	Liquid	1 *l*
8	II	Solid	1 kg
8	II	Liquid	^^500 m*l*
8	III	Solid	2 kg
8	III	Liquid	1 *l*

Remarks: -(i) *# This limit may be increased to 1,000 ml for aerosols not containing toxic substance(s).*

★ Only apply to organic peroxide of type B or C and not require temperature control.

@ Only apply to organic peroxide of type D, E or F and not require temperature control.

^^ Glass, porcelain or stoneware inner packaging should be enclosed in a compatible and rigid intermediate packaging.

(ii) The above "Limited Quantity" shall not apply to: -

(a) dangerous goods in Class 1, 6.2, 7 and 9;

(b) dangerous goods in Packaging Group I;

(c) compressed gases in Class 2 (other than an aerosol) which exhibit a flammable, corrosive, oxidizing or toxic risk; and

(d) self-reactive substances and desensitized explosives in Class 4.1.

ANNEX IV

Proposed Aggregate Limits Governing the
Storage and Conveyance on land of Dangerous Goods

Class **(1)**	**Buildings/Premises for which Aggregate Limits for Storage of Dangerous Goods Shall Apply**	
	Non-industrial Buildings/Premises **(2)**	**Industrial Buildings/Premises** **(3)**
Class 2 *[Category 2]*	300 litres water capacity *[5 cylinders]*	450 litres water capacity *[5 cylinders]*
Classes 3.1 to 3.3 *[Category 5, Class 1 & Class 2]* Paint, Enamels, Lacquers, etc. Class 3.4 (diesel, etc.) *Category 5, Class 3]*	100 litres *[Class 1:40 litres Class 2:40 litres]* 250 litres *[250 litres]* 2,500 litres *[2,500 Litres]*	150 litres *[Class 1:120 litres Class 2:120 litres]* 250 litres *[250 litres]* 2,500 litres *[2,500 litres]*
Classes 4 to 9 *[Category 3, 4, 6, 7, 8, 9 & 10]*	100 litres/kg *[no aggregate limit]*	-1,000 litres/kg *[no aggregate limit]*

Remarks (i) The aggregate limits set out in brackets are currently stipulated under the Dangerous Goods (General) Regulations.

(ii) It is proposed that the aggregate limits for conveyance of dangerous goods should follow the aggregate limits for the storage of different types of dangerous goods in non-industrial buildings/premises (i.e. column 2).

第 295 章

危險品條例

本條例旨在綜合和修訂與危險品有關的法例。

〔1956 年 7 月 27 日〕

註：根據 1998 年第 23 號第 1(2)(*a*)條及 1998 年第 25 號第 1(2)條，該等條例對本成文法則的修訂當作自 1997 年 7 月 1 日起實施。上述各條均受第 383 章第 II 部列出的香港人權法案第十二條規限或須符合上述香港人權法案第十二條。

第 I 部

導言

（由 1971 年第 9 號第 2 條增補）

1. 簡稱

本條例可引稱爲《危險品條例》。

2. 釋義

在本條例中，除文意另有所指外——

“石油”(petroleum)包括原油、從石油、煤、頁巖、泥煤或其他瀝青物質提煉所得的油類、其他石油產品或上述任何油類的產品，以及含有石油或上述任何油類的混合物；

“本條例”(this Ordinance)包括根據第 5 條訂立的規例；

“危險品”(dangerous goods)指根據第 3 條本條例適用的任何物品或物質；

“佔用人”(occupier)包括任何數目的人及任何法團，就任何製造而言，包括任何從事該項製造的人；

附件 C

CHAPTER 295

DANGEROUS GOODS

To consolidate and amend the law relating to dangerous goods.

[27 July 1956]

Note: Under s. 1(2)(*a*) of 23 of 1998 and s. 1(2) of 25 of 1998, the amendment to this enactment by those Ordinances is deemed to have come into operation on 1 July 1997. The aforesaid sections are subject to article 12 of the Hong Kong Bill of Rights set out in Part II of Cap. 383.

PART I

PRELIMINARY

(Added 9 of 1971 s. 2)

1. Short title

This Ordinance may be cited as the Dangerous Goods Ordinance.

2. Interpretation

In this Ordinance, unless the context otherwise requires —

"carrier"（承運人）includes all persons carrying goods or passengers for hire by land or water;

"dangerous goods"（危險品）means any of the goods or substances to which this Ordinance applies under section 3;

"depot"（倉庫）means any place or vessel designated as a Government Explosives Depot under section 13A; *(Added 9 of 1971 s. 3)*

"explosive"（爆炸品）includes any substance used or manufactured with a view to producing a practical effect by explosion or a pyrotechnic effect;

"licence"（牌照）includes permit; *(Added 8 of 1964 s. 2)*

“承運人”(carrier)包括所有出租由陸路或水路運載物品或乘客的人；

“倉庫”(depot)指根據第 13A 條指定爲政府爆炸品倉庫的任何地方或船隻； *（由 1971 年第 9 號第 3 條增補）*

“船隻”(vessel)包括任何船舶、船艇、中式帆船，或任何其他各類用於航行的船隻；

“貨倉擁有人”(warehouse owner)包括任何擁有或管理任何存放物品的貨倉、貯存所、埠頭、碼頭或其他處所的人；

“貯存”、“貯存所”(store)前者用作動詞時，包括管有、保管或控制與此動詞有關的東西； *（由 1964 年第 24 號第 2 條增補）*

“牌照”(licence)包括許可證； *（由 1964 年第 8 號第 2 條增補）*

“違禁品”(prohibited goods)指由任何根據第 5 條訂立的規例爲施行本條例而宣布爲違禁品的任何危險品； *（由 1959 年第 8 號第 2 條增補）*

“過境”(transit)就貨物而言，指——

(*a*) 純粹爲帶離香港而帶進香港的貨物；及

(*b*) 一直留在將其帶進香港的船隻、飛機或車輛之內或之上的貨物； *（由 1973 年第 25 號第 2 條增補）*

“領有牌照處所”(licensed premises)指任何處所而憑藉根據本條例發出的牌照獲准在其內製造或貯存危險品者；

“製造”(manufacture)包括加工、壓縮、液化或以其他方式改變任何物質的性質或形態； *（由 1964 年第 8 號第 2 條增補）*

“擁有人”(owner)就任何船隻而言，包括承租人及任何以擁有人的代理人身分行事的人；

“擁有人”(owner)就危險品而言，包括任何以擁有人的代理人身分行事的人；

“爆炸品”(explosive)包括任何爲藉爆炸而產生實際效果或爲產生煙火效果而使用或製造的物質。

3. 適用範圍

本條例適用於所有爆炸品、壓縮氣體、石油及其他發出易着火蒸氣的物質、發出有毒氣體或蒸氣的物質、腐蝕性物質、與水或空氣相互影響時會變爲危險的物質、可自燃或隨時可能燃燒的物質、放射性物料，以及根據第 5 條由總督會同行政局規定本條例須適用的物質：

"licensed premises"（領有牌照處所）means any premises in which dangerous goods are permitted to be manufactured or stored by virtue of a licence issued under this Ordinance;

"manufacture"（製造）includes process, compress, liquefy or otherwise after the nature or form of any substance; *(Added 8 of 1964 s. 2)*

"occupier"（佔用人）includes any number of persons and a body corporate and, in the case of any manufacture, includes any person carrying on such manufacture;

"owner"（擁有人）, in respect of any vessel, includes a charterer and any person acting as agent for the owner;

"owner"（擁有人）, in respect of dangerous goods, includes any person acting as agent for the owner;

"petroleum"（石油）includes crude petroleum; oil made from petroleum or from coal, shale, peat or other bituminous substance, and other products of petroleum or of any of the above-mentioned oils, and mixtures containing petroleum or any of the above-mentioned oils;

"prohibited goods"（違禁品）means any dangerous goods declared by any regulation made under section 5 to be prohibited goods for the purposes of this Ordinance; *(Added 8 of 1959 s. 2)*

"store"（貯存、貯存所）, when used as a verb, includes to have possession or custody of or control over that to which the verb relates; *(Added 24 of 1964 s. 2)*

"this Ordinance"（本條例）includes regulations made under section 5;

"transit"（過境）, in relation to cargo, means cargo which—

(*a*) is brought into Hong Kong solely for the purpose of taking it out of Hong Kong; and

(*b*) remains at all times in or on the vessel, aircraft or vehicle in or on which it is brought into Hong Kong; *(Added 25 of 1973 s. 2)*

"vessel"（船隻）includes any ship or boat or junk or any other description of vessel used in navigation;

"warehouse owner"（貨倉擁有人）includes any person owning or managing any warehouse, store, quay, pier or other premises in which goods are deposited.

3. Application

This Ordinance shall apply to all explosives, compressed gases, petroleum and other substances giving off inflammable vapours, substances giving off poisonous gas or vapour, corrosive substances, substances which become dangerous by interaction with water or air, substances liable to spontaneous combustion or of a readily combustible nature, radioactive material and to such substances to which it is applied by the Governor in Council under section 5:

但本條例並不適用於——

(*a*) 任何由英國軍用船艦或任何外國的軍用船艦運載的危險品；或 *（由 1998 年第 23 號第 2 條修訂）*

(*b*) 在符合第 III 部的規定下，任何由官方管有和管制的危險品。 *（由 1971 年第 9 號第 4 條修訂）*

4. 總督發出指示的權力

(1) 總督可（在一般或個別情況下）就任何公職人員（法官、區域法院法官或裁判官除外）在根據本條例行使或執行任何權力、職能及職責方面，發出他認爲適合的指示。 *（由 1998 年第 25 號第 2 條修訂）*

(2) 公職人員在根據本條例行使或執行任何權力、職能及職責時，須遵從總督根據第(1)款所發出的任何指示。

（由 1971 年第 9 號第 5 條增補）

5. 規例

(1) 總督會同行政局可訂立規例，就下列事項訂定條文——

(*a*) 本條例對任何物質及物品的適用範圍；

(*b*) 使本條例適用的任何物質或物品或其中任何分量獲得豁免，不受本條例或其任何部分的施行所規限；

(*c*) 爲施行本條例而將任何危險品宣布爲違禁品； *（由 1959 年第 8 號第 3 條增補）*

(*d*) 對危險品的製造、管有、卸在陸上、裝運、轉運、貯存、移動、出售及使用作出的管制，以及與上述各項有關而須採取的安全預防措施；

(*e*) 須附在任何載有危險品的桶、罐、箱或其他包裝上的標籤，及張貼在任何存有危險品的處所的通告，以及用以標記該等物品或處所的其他方法；

(*f*) 爲任何目的而就任何危險品或任何曾載有危險品的容器所作的試驗；

(*g*) 任何危險品的包裝方式；

Provided that this Ordinance shall not apply —

(*a*) to any dangerous goods carried in Her Majesty's ships of war, or in the ships of war of any foreign state; or *(Amended 23 of 1998 s. 2)*

(*b*) subject to Part III, to any dangerous goods in the possession and control of the Crown. *(Amended 9 of 1971 s. 4)*

4. Power of Governor to give directions

(1) The Governor may give such directions as he thinks fit (either generally or in any particular case) with respect to the exercise or performance by any public officer (other than a judge, a District Judge or a magistrate) of any powers, functions and duties under this Ordinance.

(2) A public officer shall, in the exercise or performance of any powers, functions and duties under this Ordinance, comply with any directions given by the Governor under subsection (1).

(Added 9 of 1971 s. 5)

5. Regulations

(1) The Governor in Council may by regulation provide for —

(*a*) the application of this Ordinance to any substances and articles whatsoever;

(*b*) the exemption of any substance or article to which this Ordinance applies or any quantity thereof from the operation of this Ordinance or any part thereof;

(*c*) the declaration of any dangerous goods to be prohibited goods for the purposes of this Ordinance; *(Added 8 of 1959 s. 3)*

(*d*) the control of and the safety precautions which shall be taken in relation to the manufacture, possession, landing, shipment, transhipment, storage, movement, sale and use of dangerous goods;

(*e*) the label to be attached to any drum, tin, case or other package containing dangerous goods and the notices to be affixed to any premises containing dangerous goods and other methods of marking such goods or premises;

(*f*) the tests to be applied for any purpose whatsoever to any dangerous goods or to any receptacle which has contained dangerous goods;

(*g*) the manner in which any dangerous goods shall be packed;

(*h*) 規定須向指明公職人員提供載於或將會裝上任何船隻、飛機或車輛的危險品資料及該等資料的性質； *（由 1959 年第 8 號第 3 條修訂）*

(*i*) 規定須在任何運載或將會運載危險品的船隻或車輛上展示訂明的危險品訊號；

(*j*) 規定在任何運載危險品的船隻發生火警時須展示或發出訂明的港口火警訊號；

(*k*) 對就石塊、泥土或其他物料所進行的爆破作出的管制、爆破時須採取的預防措施，以及可進行爆破的時間；

(*l*) 在並非《公眾娛樂場所條例》（第 172 章）所指公眾娛樂場所的任何處所使用任何電影放映機或類似器材；

(*m*) 在沒有手令下拘捕任何被發現在領有牌照處所犯了任何指明危險罪行的人，以將該人送往裁判官席前；

(*n*) 任何根據本條例發出的牌照的格式及條件、可發出該等牌照的公職人員、牌照費用及牌照的有效期；

(*o*) 一般格式；及

(*p*) 更有效施行本條例的條文。

(2) 根據本條訂立的規例，可規定違反該規例的指明條文即屬犯罪，並可爲此訂定刑罰：

但所訂定的刑罰不得超過罰款$25,000 及監禁 6 個月。 *（由 1984 年第 171 號法律公告修訂）*

第 II 部

危險品的管制

（由 1971 年第 9 號第 6 條增補）

(*h*) requiring information to be furnished to such public officers as may be specified in respect of dangerous goods carried or to be loaded on any vessel, aircraft or vehicles, and the nature of such information; *(Amended 8 of 1959 s. 3)*

(*i*) requiring such dangerous goods signals as may be prescribed to be exhibited on any vessel or vehicle carrying or about to load dangerous goods;

(*j*) requiring such port fire alarm signals as may be prescribed to be exhibited or made on an outbreak of fire on any vessel carrying dangerous goods;

(*k*) the control of the blasting of stone, earth or other material, the precautions to be taken while such blasting takes place and the times during which such blasting may take place;

(*l*) the use of any cinematograph or similar apparatus upon any premises which is not a place of public entertainment within the meaning of the Places of Public Entertainment Ordinance (Cap. 172);

(*m*) the apprehension without a warrant of any person found committing any such dangerous offence as may be specified on licensed premises, for the purpose of conveying such person before a magistrate;

(*n*) the form and conditions of any licence issued under this Ordinance, the public officers who may issue such licence, the fees therefor, and the period for which such licence shall be valid;

(*o*) forms generally; and

(*p*) the better carrying out of the provisions of this Ordinance.

(2) Regulations made under this section may provide that contravention of specified provisions of such regulations shall be an offence and may provide penalties therefor:

Provided that no penalty so provided shall exceed a fine of $25,000 and imprisonment for 6 months. *(Amended L.N. 171 of 1984)*

PART II

CONTROL OF DANGEROUS GOODS

(Added 9 of 1971 s. 6)

(3) 根據第(2)款發出的通知須載有一項撤銷牌照理由的陳述。

（由 1994 年第 6 號第 54 條代替）

9A. 上訴

牌照申請人或持有人可在接獲拒絕批給牌照或撤銷牌照的通知後 28 天內，就根據第 9 條被拒絕批給牌照或被拒絕爲牌照續期事或就撤銷牌照事向行政上訴委員會提出上訴。

（由 1994 年第 6 號第 54 條增補）

9B. 違反牌照條件的罰則

即使根據本條例或其他條例的條文會產生任何其他法律責任，違反批註在依據第 9 條發出的牌照上的任何條款或條件，即屬犯罪，一經循簡易程序定罪，可處罰款不超過$10,000 及監禁不超過 1 個月。

（由 1994 年第 6 號第 54 條增補）

10. 爲危險品加上標記及就其特性作出通知

任何人不得向任何貨倉擁有人或承運人交付任何危險品，或由陸路或水路在香港任何地方往來送遞或運載任何危險品，或致使任何危險品由陸路或水路在香港任何地方往來送遞或運載，或出售、展示以供出售或貯存任何危險品，或在任何貨倉、貨運碼頭或埠頭之內或之上存放任何危險品——

(*a*) 除非該等危險品的真實名稱或描述已在載有該等危險品的桶、罐、箱或其他包裝外面以中英文書寫、印刷或標記清楚；及

(*b*) 除非訂明標籤（如有的話）已附在載有該等危險品的桶、罐、箱或其他包裝外面；及

(*c*) 如屬交付任何貨倉擁有人或承運人的情況，已將該等危險品的真實名稱或描述及其危險性質以書面通知該貨倉擁有人或承運人。

(3) A notice under subsection (2) shall include a statement of the reasons for the revocation.

(Replaced 6 of 1994 s. 54)

9A. Appeals

An applicant for or holder of a licence may, within 28 days after receipt of notice of such refusal or revocation, appeal to the Administrative Appeals Board against any refusal to grant or renew or against any revocation of the licence under section 9.

(Added 6 of 1994 s. 54)

9B. Penalty for breach of licence

Notwithstanding any other liability which may arise under the provisions of this Ordinance or otherwise, the breach of any term or condition endorsed upon any licence issued pursuant to section 9 shall constitute an offence which shall be punishable on summary conviction by a fine not exceeding $10,000 and imprisonment not exceeding 1 month.

(Added 6 of 1994 s. 54)

10. Marking of dangerous goods and giving of notice of their character

No person shall deliver to any warehouse owner or carrier, or send or carry or cause to be sent or carried to or from any part of the Colony by land or water, or sell or expose for sale, or store any dangerous goods, or deposit any dangerous goods in or on any warehouse, wharf or quay unless—

(*a*) the true name or description of such goods is distinctly written, printed or marked in English and Chinese on the outside of the drum, tin, case or other package containing such goods; and

(*b*) the prescribed label, if any, is attached to the outside of the drum, tin, case or other package containing such goods; and

(*c*) in the case of delivery to any warehouse owner or carrier, notice in writing has been given to such warehouse owner or carrier of the true name or description of such goods and the dangerous nature thereof.

11. 移走違反規例的危險品

凡在違反任何根據第 5 條訂立的規例下管有任何危險品，或將任何危險品卸在陸上、以船運載、轉運、貯存或以其他方式處理，或將任何運載危險品的船隻停泊、碇泊或停定，則警務處處長、海事處處長、消防處處長或礦務處處長，或任何根據上述任何一位人員的命令行事的人，可安排將該等危險品或船隻移往符合上述規例的地方，開支則由危險品或船隻的擁有人負責；移走危險品或船隻所招致的一切開支，在各方面均可作爲一筆欠官方或須付予官方的可追討費用的款項，以同樣方式向危險品或船隻的擁有人追討。

（由 1961 年第 42 號第 2 條修訂；由 1964 年第 8 號第 5 條修訂）

12. 進入等權力

(1) 任何不低於督察職級的警務人員、任何不低於消防隊長職級的消防處人員、任何不低於一級爆炸品主任職級的土木工程署礦務部人員、任何獲礦務處處長書面授權而職級不低於二級爆炸品主任的土木工程署礦務部人員及任何由《香港海關條例》（第 342 章）界定的海關人員，可—— *（由 1991 年第 27 號法律公告代替。由 1991 年第 364 號法律公告修訂）*

(*a*) 在日夜任何時候，進入、視察和檢查任何製造、貯存或使用危險品的地方或建築物及其每一部分，但不得不必要地阻礙或妨礙該地方或建築物內的工作；亦可就本條例的規定是否已予遵守，並就一切與公眾安全或受僱在該地方或建築物內或附近工作的人的安全有關的事宜及事物，作出查訊；

(*b*) 要求他根據本條有權進入的任何地方或建築物的佔用人或由該佔用人僱用於其內工作的人，將該地方或建築物內任何物質的樣本交給他；

(*c*) 進入和搜查該人員有合理理由懷疑可能內有根據(*e*)段可予檢取的物品的任何地方或建築物；

11. Removal of dangerous goods in contravention of regulations

Where any dangerous goods are possessed, landed, shipped, transhipped, stored or are otherwise dealt with, or where any vessel, carrying any dangerous goods is berthed or has anchored or stopped contrary to any regulations made under section 5, the Commissioner of Police, the Director of Marine, the Director of Fire Services or the Commissioner of Mines, or any other person acting under the orders of any of those officers, may cause such dangerous goods, or such vessel to be removed, at the expense of the owner thereof, to such place as may be in conformity with the said regulations, and all expenses incurred in such removal may be recovered from the owner thereof in like manner, in all respects, as a sum of money due or payable to the Crown in respect of a fee is recoverable.

(Amended 42 of 1961 s. 2; 8 of 1964 s. 5)

12. Power of entry, etc.

(1) Any police officer not below the rank of inspector, and any officer of the Fire Services Department not below the rank of station officer and any officer of the Mines Division, Civil Engineering Department not below the rank of explosives officer I and any other officer of the Mines Division, Civil Engineering Department, not below the rank of explosives officer II, authorized in writing by the Commissioner of Mines, and any member of the Customs and Excise Service, as defined in the Customs and Excise Service Ordinance (Cap. 342), may — *(Replaced L.N. 27 of 1991. Amended L.N. 364 of 1991)*

(*a*) enter, inspect and examine any place or building in which dangerous goods are manufactured, stored or used and every part thereof, at all times by day and by night, but so as not unnecessarily to impede or obstruct the work in such place or building, and may make inquiries as to the observance of this Ordinance and all matters and things relating to the safety of the public or of the persons employed in or about such place or building;

(*b*) require the occupier of any place or building which he is entitled under this section to enter, or a person employed by such occupier therein, to give him samples of any substance therein;

(*c*) enter and search any place or building in which such officer may have reasonable grounds for suspecting that there may be anything which, under paragraph (*e*), is liable to seizure;

13E.管理倉庫的規例

(1) 總督會同行政局可訂立規例，就下列事項訂定條文——

(*a*) 倉庫的管制和管理；

(*b*) 在倉庫內採取的安全預防措施；

(*c*) 賦權任何公職人員就倉庫的妥善管制、管理和安全發出他認爲適合的指示；

(*d*) 對在倉庫內貯存爆炸品並由政府將爆炸品運入或運出倉庫所收取的費用；

(*e*) 貯存在倉庫內的爆炸品的銷毀；

(*f*) 出售貯存在倉庫內而未繳付訂明費用的爆炸品以及從出售所得收益中扣除該等費用及出售開支；及

(*g*) 更有效施行本部的條文。

(2) 根據本條訂立的規例，可規定違反該規例的指明條文即屬犯罪，並可爲此訂定刑罰，但所訂定的刑罰不得超過罰款$25,000 及監禁 6 個月。 *（由 1984 年第 171 號法律公告修訂）*

（第 III 部由 1971 年第 9 號第 7 條增補）

第 IV 部

一般條文

（由 1971 年第 9 號第 8 條增補）

14. 罪行及罰則

(1) 任何人違反第 6、7、8 或 10 條任何條文，即屬犯罪，可處罰款$25,000 及監禁 6 個月： *（由 1959 年第 8 號第 7 條修訂）*

但如任何人被控違反第 10 條任何條文，而他表明並令主審裁判官信納他並不知道與資料有關的物品的性質，且即使他作出合理的努力亦不可能知道，則不得被定罪。

(2) 任何處所的佔用人如在違反第 13 條的條文下沒有就意外作出報告，即屬犯罪，可處罰款$1,000。

(3) 任何人——

(*a*) 妨礙或阻延任何人員行使由本條例賦予該人員的任何權力；或

13E. Regulations for management of depots

(1) The Governor in Council may by regulation provide for —

(*a*) the control and management of depots;

(*b*) safety precautions to be taken in depots;

(*c*) the empowering of any public officer to give such directions as he thinks fit for the purposes of the proper control and management and the safety of depots;

(*d*) the fees chargeable for the storage of explosives in depots and for deliveries of explosives by the Government to or from depots;

(*e*) the destruction of explosives stored in depots;

(*f*) the sale of explosives stored in depots in respect of which the prescribed fees have not been paid and the deduction of such fees and the expenses of sale from the proceeds of sale; and

(*g*) the better carrying out of the provisions of this Part.

(2) Regulations made under this section may provide that contravention of specified provisions of such regulations shall be an offence and may provide penalties therefor, but no penalty so provided shall exceed a fine of $25,000 and imprisonment for 6 months. *(Amended L.N. 171 of 1984)*

(Part III added 9 of 1971 s. 7)

PART IV

GENERAL

(Added 9 of 1971 s. 8)

14. Offences and penalties

(1) Any person who contravenes any of the provisions of section 6, 7, 8 or 10 shall be guilty of an offence and shall be liable to a fine of $25,000 and to imprisonment for 6 months: *(Amended 8 of 1959 s. 7)*

Provided that any person accused of having contravened any of the provisions of section 10 shall not be liable to be convicted thereof if he shows, to the satisfaction of the magistrate before whom he is tried, that he did not know the nature of the goods to which the information relates, and that he could not, with reasonable diligence, have obtained such knowledge.

(2) The occupier of any premises who fails to report an accident in contravention of the provisions of section 13 shall be guilty of an offence and shall be liable to a fine of $1,000.

(3) Any person who —

(*a*) obstructs or delays any officer in the exercise of any of the powers conferred upon him by this Ordinance; or

(*b*) 故意或罔顧後果地就任何危險品的獲取來源，或就任何危險品的製造、運送、貯存、包裝、標籤或使用，提供虛假資料或隱瞞資料， *（由 1964 年第 8 號第 8 條代替）*

即屬犯罪，可處罰款$20,000 及監禁 6 個月。

（由 1984 年第 171 號法律公告修訂）

15. 牌照持有人對其僱員及代理人所犯罪行須負的法律責任

凡經證明並令任何具有司法管轄權的法院信納任何持有根據本條例所發牌照的人的任何僱員或代理人犯了本條例所訂罪行，則該牌照持有人須就該罪行負上法律責任，並可處以爲此訂定的刑罰，除非他證明該罪行是在他不知道或沒有同意的情況下發生的，且他已盡一切應盡的努力防止該罪行發生：

但——

(*a*) 不得就本條所訂的任何罪行而將牌照持有人判處監禁（不付罰款者除外）；及

(*b*) 本條的任何規定不得當作豁免僱員或代理人被處以所犯罪行的刑罰。

16. 公司犯罪時董事等的法律責任

犯本條例所訂任何罪行的人如是一間公司，則每名董事及每名關涉公司管理的高級人員，除非證明構成該罪行的作爲是在他不知道或沒有同意的情況下發生的，否則均屬犯有相同罪行。

（由 1961 年第 23 號第 3 條增補）

17. 定罪後取消牌照

任何人如犯了本條例所訂罪行而被定罪，則除其他刑罰外，裁判官並可命令取消任何根據本條例發出並由該人持有的牌照，而任何該等命令所針對的任何牌照持有人須隨即將該牌照交付適當的發牌當局，予以取消。

(*b*) wilfully or recklessly gives false information or withholds information, as to the source from which any dangerous goods were obtained or as to the manufacture, conveyance, storage, packing, labelling or use of any dangerous goods, *(Replaced 8 of 1964 s. 8)*

shall be guilty of an offence and shall be liable to a fine of $20,000 and to imprisonment for 6 months.

(Amended L.N. 171 of 1984)

15. Liability of licence holder for offences committed by his employees and agents

Whenever it is proved to the satisfaction of any court having jurisdiction that an offence against this Ordinance has been committed by any employee or agent of any person holding a licence issued under this Ordinance, such person shall be held to be liable for such offence and to the penalty provided therefor, unless he proves that the offence was committed without his knowledge or consent and that he had exercised all due diligence to prevent the commission of the offence:

Provided that —

(*a*) no such person shall be sentenced to imprisonment (except in default of payment of a fine) for any offence under this section; and

(*b*) nothing in this section shall be deemed to exempt the employee or agent from the penalties provided for the offence committed by him.

16. Liability of directors, etc. where offence committed by company

Where a person by whom an offence under this Ordinance has been committed is a company, every director and every officer concerned in the management of the company shall be guilty of the like offence unless he proves that the act constituting the offence took place without his knowledge or consent.

(Added 23 of 1961 s. 3)

17. Cancellation of licence on conviction

On the conviction of any person for an offence against this Ordinance, the magistrate may, in addition to any other penalty, order that any licence issued under this Ordinance held by such person shall be cancelled and any licence in respect whereof any such order is made shall be forthwith delivered by the holder thereof to the appropriate licensing authority for cancellation.

18. 沒收

裁判官可命令將任何與本條例所訂任何罪行的發生有關的危險品及其盛器沒收並歸官方所有，不論是否有任何人因該罪行而被檢控。

19. *（由 1969 年第 31 號附表廢除）*

20. 關於其他成文法則的保留條文

本條例的條文對任何與危險品有關的其他成文法則的條文，均具增補而無減損的作用。

18. Forfeiture

A magistrate may order to be forfeited to the Crown any dangerous goods and any container thereof with respect to which any offence against this Ordinance has been committed, whether any person has been charged with such offence or not.

19. *(Repealed 31 of 1969 Schedule)*

20. Saving for other enactments

The provisions of this Ordinance shall be in addition to and not in derogation of the provisions of any other enactment relating to dangerous goods.