

Introduction of the new classification system of Dangerous Goods (Class 2 to 9)



New Classification System

In order to align with international standards, the new classification system of Dangerous Goods has made reference to the International Maritime Dangerous Goods (IMDG) Code, published by the International Maritime Organisation.

Class 2 dangerous goods

- (i) include compressed gases, liquefied gases, dissolved gases, adsorbed gases, refrigerated liquefied gases, mixtures of one or more of these gases with one or more vapours of substances of other classes of dangerous goods and gas charged within a receptacle



*exclude any gas as defined by section 2 of the Gas Safety Ordinance (Cap. 51)

- (ii) Class 2 dangerous goods are sub-divided into the following Classes
- (A) Class 2.1: flammable gases
 - (B) Class 2.2: non-flammable and non-toxic gases
 - (C) Class 2.3: toxic gases

Class 3 dangerous goods

Flammable liquids



Class 3A dangerous goods

include diesel, fuel oil and furnace oil, having flashpoints exceeding 60°C (closed-cup test)

Class 4 dangerous goods

- (i) include flammable solids, substances liable to spontaneous combustion, and substances which, in contact with water, emit flammable gases
- (ii) are sub-divided into the following Classes
- (A) Class 4.1: flammable solids, self-reactive substances, solid desensitized explosives and polymerizing substances
 - (B) Class 4.2: substances liable to spontaneous combustion
 - (C) Class 4.3: substances which, in contact with water, emit flammable gases



Class 5 dangerous goods

- (i) include oxidizing substances and organic peroxides
- (ii) are sub-divided into the following Classes
- (A) Class 5.1: oxidizing substances
 - (B) Class 5.2: organic peroxides



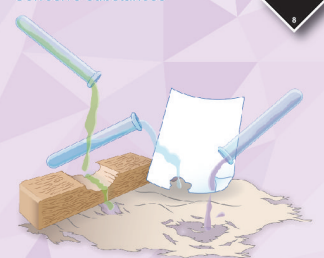
Class 6.1 dangerous goods

Toxic substances



Class 8 dangerous goods

Corrosive substances



Class 9 dangerous goods

Miscellaneous dangerous substances or materials



Class 9A dangerous goods

- 1) Cotton waste
- 2) Cotton (raw)
- 3) Kapok
- 4) Polymethylmethacrylate (raw material)
- 5) Polypropylene (raw material)
- 6) Polystyrene (raw material)
- 7) Polytetrafluoroethylene
- 8) Polythene (raw material)
- 9) Polyvinyl chloride (raw material)
- 10) Rubber (raw), excluding any dangerous goods with UN number UN 1287 or UN 1345
- 11) Rubber tyres for motor vehicles and aircrafts



Class 1, 6.2, 7 dangerous goods

Dangerous goods of below classes are not under jurisdiction of Fire Services Department

- Class 1 - Explosives
- Class 6.2 - Infectious substances
- Class 7 - Radioactive material

How to classify classes of Dangerous Goods?

Method 1

Access the thematic website for dangerous goods through the below link to classify dangerous goods classes using corresponding UN numbers or proper shipping names.
www.hkfsd.gov.hk/dg

Method 2

Check Dangerous Goods (Application and Exemption) Regulation 2012 (Cap. 295E) and identify the dangerous goods classes by following the steps below

1 Identify different item's unique UN numbers

2

By referring to the UN number, you can identify "the proper" shipping name

*Class of Dangerous Goods

Classes 2, 3, 4, 5, 6.1, 8 and 9 Dangerous Goods

UN No.	Proper Shipping Name	Class	Subsidiary Hazard	General Exempt Quantity (units)	Industrial Exempt Quantity (units)	Special Exempt Quantity (units)	Limited Quantity (units)	Maximum Package Size
1001	ACETYLENE, DISSOLVED	2.1	None	150	500	None	None	None
1002	AIR, COMPRESSED	2.2	None	150	500	None	0.12	None
1003	AIR, REFRIGERATED	2.2	5.1	150	500	None	None	None



新修訂 危險品分類 (第2至第9類別)

新修訂危險品分類

為了配合國際的標準，新修訂的危險品分類系統參照了由國際海事組織發布的《國際海運危險貨物規則》(IMDG Code)

第2類危險品

(i) 包括壓縮氣體、液化氣體、溶解氣體、吸附氣體、冷凍液化氣體、一種或多於一種上述氣體與一種或多於一種其他類別物質的蒸氣的混合物、充於容器內的氣體



*並不包括《氣體安全條例》(第51章)第2條所界定的任何氣體

(ii) 細分為以下類別

- (A) 第2.1類：易燃氣體
- (B) 第2.2類：非易燃及無毒氣體
- (C) 第2.3類：毒性氣體

第3類危險品

易燃液體



第3A類危險品

包括閃點超過60°C(密封杯測試)的柴油、燃油及爐油

第4類危險品

- (i) 包括易燃固體、易於自燃的物質及遇水放出易燃氣體的物質
- (ii) 細分為以下類別
 - (A) 第4.1類：易燃固體、自反應物質、固態減敏爆炸品及聚合物質
 - (B) 第4.2類：易於自燃的物質
 - (C) 第4.3類：遇水放出易燃氣體的物質



第5類危險品

- (i) 包括氧化性物質和有機過氧化物
- (ii) 細分為以下類別
 - (A) 第5.1類：氧化性物質
 - (B) 第5.2類：有機過氧化物



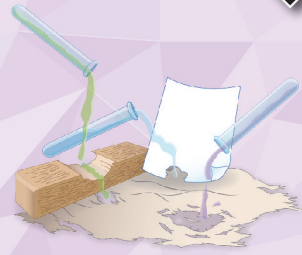
第6.1類危險品

毒性物質



第8類危險品

腐蝕性物質



第9類危險品

雜項危險物質或物料



第9A類危險品

- 1) 廢棉
- 2) 原棉
- 3) 木棉
- 4) 聚甲基丙烯酸甲酯(原料)
- 5) 聚丙烯(原料)
- 6) 聚苯乙烯(原料)
- 7) 聚四氟乙烯
- 8) 聚乙烯(原料)
- 9) 聚氯乙炔(原料)
- 10) 生橡膠(不包括聯合國編號為UN 1287或UN 1345的危險品)
- 11) 汽車及飛機的橡膠輪胎



第1, 6.2, 7類危險品

以下類別的危險品並非由消防處規管

- 第1類 - 爆炸品
- 第6.2類 - 感染性物質
- 第7類 - 放射性物質

如何識別危險品的類別?

方法一 透過以下消防處危險品專題網頁，可利用聯合國編號或正式運輸名稱查閱對應的危險品類別。

www.hkfsd.gov.hk/dg

方法二 查閱《2012年危險品(適用及豁免)規例》(第295E章)並透過以下方法識別危險品的類別。

1 識別每個不同項目的獨特
的聯合國編號(UN no.)

2 透過參照聯合國編號(UN no.)，你可以識別到不同項目的「正式運輸名稱」危險品類別

第2、3、4、5、6.1、8及9類危險品

聯合國編號	正式運輸名稱	類別	次要危險性	一般工業常用量 [單位]	特別工業常用量 [單位]	有限數量 [單位]	最大包裝容量
1001	溶解乙炔	2.1	無	150	300	無	無
1002	壓縮空氣	2.2	無	150	300	0.12	無
1003	冷凍液態空氣	2.2	5.1	150	300	無	無



第295E章



消防處

www.hkfsd.gov.hk