



消防處

Fire Services Department

FSD Connects with the Relevant Industries of Dangerous Goods

9 January 2023

AGENDA

Welcoming Address

Mr. CHEUNG Pit-shing

Topic 1: Making good use of the thematic website to enhance DG safety management

Mr. LAU Tat-san

Topic 2: The importance of safety data sheet in DG safety and understanding the compatibility of DG with the Code of Practice

Mr. TAM Tsz-kin

Topic 3:
How to apply for pressure receptacle approval

Mr. CHAU Choi-lung

Q & A Session

All Speakers



消防處

Fire Services Department

Welcoming Address

Acting Assistant Divisional Officer

CHEUNG Pit-shing

Dangerous Goods Legislation Division

Licensing and Certification Command

Fire Services Department



消防處

Fire Services Department

Making good use of the thematic website to enhance DG safety management

Senior Station Officer

LAU Tat-san

Dangerous Goods Legislation Division

Licensing and Certification Command

Fire Services Department

What do we share in this session?

Proper Regulation of Dangerous Goods and Lives

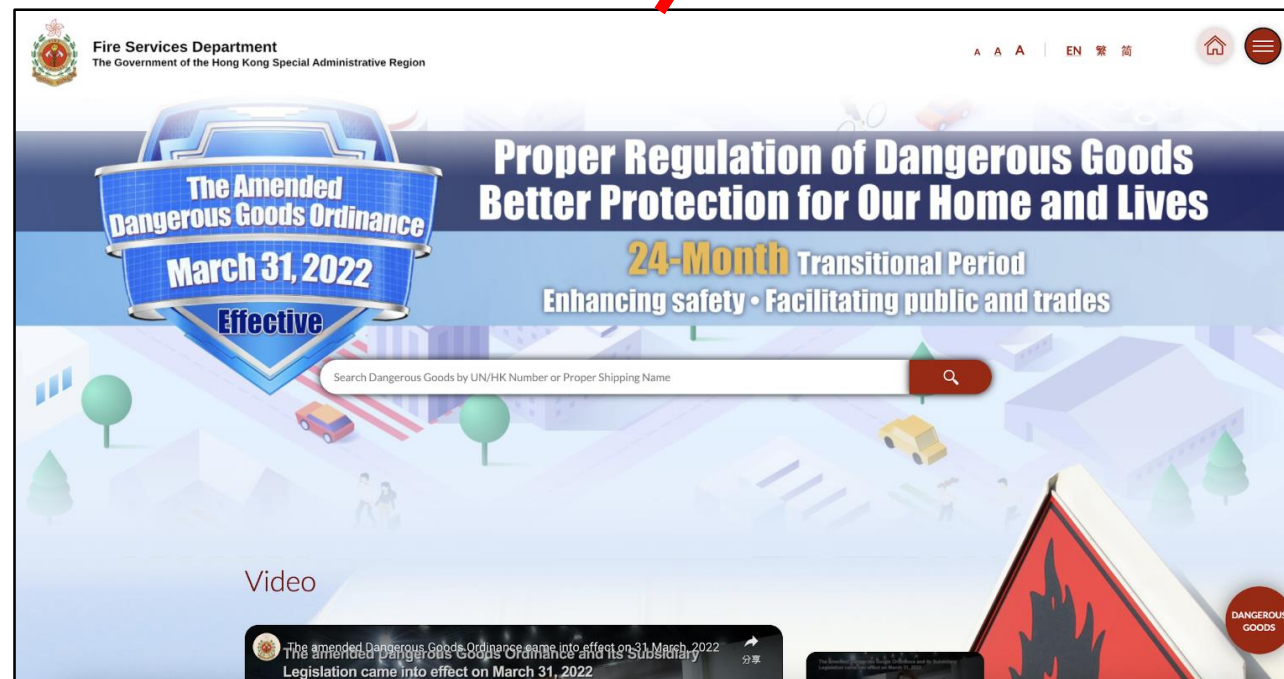
Making good use of the DG Thematic Website

Case Study 1
DG in Consumer Packs

Case Study 2
Packing of DG

DG Thematic Website

www.hkfsd.gov.hk/dg



DG Search Engine

 **Fire Services Department**
The Government of the Hong Kong Special Administrative Region

A A A | EN 繁 简

The Amended Dangerous Goods Ordinance
March 31, 2022
Effective

Proper Regulation of Dangerous Goods
Better Protection for Our Home and Lives

24-Month Transitional Period
Enhancing safety • Facilitating public and trades

Search Dangerous Goods by UN/HK Number or Proper Shipping Name 

DG Search Engine

Video

 The amended Dangerous Goods Ordinance came into effect on 31 March 2022
The amended Dangerous Goods Ordinance and its Subsidiary Legislation came into effect on March 31, 2022 

 **DANGEROUS GOODS**

Where is the DG List?

The screenshot shows the Fire Services Department website for the Hong Kong Special Administrative Region. The header includes the department's logo and name, language options (English, Traditional Chinese, Simplified Chinese), and a home icon. A red box highlights a menu icon (three horizontal lines) in the top right corner, with an orange callout box labeled "Main Menu" and a blue arrow pointing to it. The main banner features a blue shield-shaped graphic on the left that reads "The Amended Dangerous Goods Ordinance", "March 31, 2022", and "Effective". To the right of the shield, the text reads "Proper Regulation of Dangerous Goods", "Better Protection for Our Home and Lives", "24-Month Transitional Period", and "Enhancing safety • Facilitating public and trades". Below the banner is a search bar with the placeholder text "Search Dangerous Goods by UN/HK Number or Proper Shipping Name". At the bottom, there is a "Video" section with a thumbnail showing a fire truck and the text "The amended Dangerous Goods Ordinance came into effect on 31 March 2022" and "Legislation came into effect on March 31, 2022". A red circular icon with the text "DANGEROUS GOODS" is located in the bottom right corner.

Fire Services Department
The Government of the Hong Kong Special Administrative Region

EN 繁 简

Main Menu

The Amended
Dangerous Goods Ordinance
March 31, 2022
Effective

Proper Regulation of Dangerous Goods
Better Protection for Our Home and Lives
24-Month Transitional Period
Enhancing safety • Facilitating public and trades

Search Dangerous Goods by UN/HK Number or Proper Shipping Name

Video

The amended Dangerous Goods Ordinance came into effect on 31 March 2022
Legislation came into effect on March 31, 2022

DANGEROUS GOODS

Where is the DG List?

 **Fire Services Department**
The Government of the Hong Kong Special Administrative Region

The Amended Dangerous Goods Ordinance
March 31, 2022
Effective

**Proper Regulation
Better Protection**

24-Month
Enhancing

Search Dangerous Goods by UN/HK Number or Proper Shipping Name

  A A A | EN 繁 简


Regulation of Dangerous Goods


What are Dangerous Goods?


Packing, Marking and Labelling


Licence


Pressure Receptacle


Information and Statistics


Frequently Asked Questions


Contact Us

Where is the DG List?

The screenshot displays the 'REGULATION OF DANGEROUS GOODS' website. The header features the title and a background image of a fire truck and a red triangular warning sign with a flame symbol. A left-hand navigation menu includes links for 'Authority', 'Legislation', 'Dangerous Goods List' (highlighted with a red box and a red arrow), 'Code of Practice', and 'Dangerous Goods Standing Committee'. The main content area shows a breadcrumb trail 'Home > Regulation of Dangerous Goods > Dangerous Goods List' and a section titled 'Dangerous Goods List'. This section contains two items: 'Classes 2, 3, 3A, 4, 5, 6.1, 8 & 9 DG' and 'Class 9A DG', each with a download icon. A green arrow points to the first item. A red circular logo with the text 'DANGEROUS GOODS' is located in the bottom right corner.

REGULATION OF DANGEROUS GOODS

Authority

Legislation

Dangerous Goods List

Code of Practice

Dangerous Goods Standing Committee

Home > Regulation of Dangerous Goods > Dangerous Goods List

Dangerous Goods List

Classes 2, 3, 3A, 4, 5, 6.1, 8 & 9 DG

Class 9A DG

DANGEROUS GOODS

Where is the DG List?

Classes 2, 3, 4, 5, 6.1, 8 & 9 Dangerous Goods
第2、3、4、5、6.1、8及9類危險品

(1) UN No. 聯合國編號	(2) Proper Shipping Name / Packing Group (if any)	(3) 正式運輸名稱 / 包裝類別(如有)	(4) Class 類別	(5) Subsidiary Hazard 次要危險性	(6) General Exempt Quantity 一般豁免量	(7) Industrial Exempt Quantity 工業豁免量	(8) Special Exempt Quantity 特別豁免量	(9) Limited Quantity 有限數量	(10) Maximum Packing Size 最大包裝容量	(11) Specifications 說明	(12) Supplementary Notes (SN) (Appendix 4 of Code of Practice) 補充說明 (工作守則附錄4)	(13) Packing (Appendix 5 of Code of Practice) 包裝 (工作守則附錄5)	(14) Compatibility (2.3.3 of Code of Practice) 相容性 (工作守則2.3.3)
1001	ACETYLENE, DISSOLVED	溶解乙炔	2.1	None / 無	150	300	None / 無	None / 無	None / 無		None / 無	BP200	CR16, CR7
1002	AIR, COMPRESSED	壓縮空氣	2.2	None / 無	150	300	None / 無	0.12	None / 無		None / 無	BP200	
1003	AIR, REFRIGERATED LIQUID	冷凍液態空氣	2.2	5.1	150	300	None / 無	None / 無	None / 無		None / 無	BP203	CG19
1005	AMMONIA, ANHYDROUS	無水氨	2.3	8	25	50	None / 無	None / 無	None / 無		None / 無	BP200	CG18, CR5, CR16, CR7
1006	ARGON, COMPRESSED	壓縮氬	2.2	None / 無	150	300	None / 無	0.12	None / 無		None / 無	BP200	
1008	BORON TRIFLUORIDE	三氟化硼	2.3	8	None / 無	None / 無	None / 無	None / 無	None / 無		None / 無	BP200	CG1
1009	BROMOTRIFLUOROMETHANE (also known as REFRIGERANT GAS R-13B1)	溴三氟甲烷(亦稱為製冷氣體R13B1)	2.2	None / 無	150	300	None / 無	0.12	None / 無		None / 無	BP200	
1010	BUTADIENES, STABILIZED or BUTADIENES AND HYDROCARBON MIXTURE, STABILIZED	丁二烯, 穩定的, 或丁二烯和碳氫混合物, 穩定的	2.1	None / 無	75	150	None / 無	None / 無	None / 無	Containing more than 40% butadienes 含丁二烯多於40%	None / 無	BP200	CR7
1011	BUTANE	丁烷	2.1	None / 無	75	150	None / 無	None / 無	None / 無		None / 無	BP200	CR7
1012	BUTYLENE	丁烯	2.1	None / 無	75	150	None / 無	None / 無	None / 無		None / 無	BP200	CR7

UN No. 聯合國編號	Proper Shipping Name / Packing Group (if any)
1001	ACETYLENE, DISSOLVED
1002	AIR, COMPRESSED
1003	AIR, REFRIGERATED LIQUID
1005	AMMONIA, ANHYDROUS
1006	ARGON, COMPRESSED

Class 類別	Subsidiary Hazard 次要危險性	General Exempt Quantity 一般豁免量	Industrial Exempt Quantity 工業豁免量	Special Exempt Quantity 特別豁免量	Limited Quantity 有限數量	Maximum Packing Size 最大包裝容量
2.1	None / 無	150	300	None / 無	None / 無	None / 無
2.2	None / 無	150	300	None / 無	0.12	None / 無
2.2	5.1	150	300	None / 無	None / 無	None / 無
2.3	8	25	50	None / 無	None / 無	None / 無
2.2	None / 無	150	300	None / 無	0.12	None / 無

Compatibility (2.3.3 of Code of Practice) 相容性 (工作守則2.3.3)
CR16, CR7
CG19
CG18, CR5, CR16, CR7

Cap. 295E Dangerous Goods (Application and Exemption) Regulation 2012

Code of Practice

1041	ETHYLENE OXIDE AND CARBON DIOXIDE MIXTURE	環氧乙烷和二氧化碳混合物	2.1	None / 無	75	150	None / 無	None / 無	None / 無	With more than 9% but not more than 87% ethylene oxide 含環氧乙烷多於9%, 但不多於87%	None / 無	BP200	CR7
1043	FERTILIZER AMMONIATING SOLUTION	充氣溶液化肥	2.2	None / 無	150	300	None / 無	0.12	None / 無	With free ammonia 含游離氨	None / 無	BP200	
1045	FLUORINE, COMPRESSED	壓縮氟	2.3	5.1, 8	None / 無	None / 無	None / 無	None / 無	None / 無		None / 無	BP200	CG19, CR7
1046	HELIUM, COMPRESSED	壓縮氦	2.2	None / 無	150	300	None / 無	0.12	None / 無		None / 無	BP200	

What are DG?

The screenshot displays the Fire Services Department website for the Hong Kong Special Administrative Region. The header includes the department's logo and name. A large banner on the left announces 'The Amended Dangerous Goods Ordinance' effective from March 31, 2022. The main content area features the text 'Proper Regulation Better Protection' and '24-Month Transitional Period' with the goal of 'Enhancing safety'. A search bar is located at the bottom of the banner. On the right, a navigation menu is visible, with the 'What are Dangerous Goods?' link highlighted by a red box and a red arrow. The menu also includes links for 'Regulation of Dangerous Goods', 'Packing, Marking and Labelling', 'Licence', 'Pressure Receptacle', 'Information and Statistics', 'Frequently Asked Questions', and 'Contact Us'.

Fire Services Department
The Government of the Hong Kong Special Administrative Region

The Amended Dangerous Goods Ordinance
March 31, 2022
Effective

Proper Regulation
Better Protection
24-Month Transitional Period
Enhancing safety

Search Dangerous Goods by UN/HK Number or Proper Shipping Name

Regulation of Dangerous Goods

What are Dangerous Goods?

Packing, Marking and Labelling

Licence

Pressure Receptacle

Information and Statistics

Frequently Asked Questions

Contact Us

What are DG?

Class	Properties	Label ^[3]
2.1	Flammable gases	
2.2	Non-flammable, non-toxic gases	
2.3	Toxic gases	
3	Flammable liquids having a flash point not exceeding 60°C (140 °F) in closed cup test	
3A	Diesel, fuel oil and furnace oil having a flash point exceeding 60°C (140 °F) in closed cup test	
4.1	Flammable solids, self-reactive substances, solid desensitized explosives and polymerizing substances	
4.2	Substances liable to spontaneous combustion	

Class	Properties	Label ^[3]
4.3	Substances which, in contact with water, emit flammable gases	
5.1	Oxidizing substances	
5.2	Organic peroxides	
6.1	Toxic substances	
8	Corrosive substances	
9	Miscellaneous dangerous substances and materials	
9A	Combustible goods which are exempt from the operation of sections 6, 8 and 10 of the DGO (s.30 of DG(A&E)R) 2012	Not applicable

Where is the Application Guide?

The screenshot displays the Fire Services Department website for the Hong Kong Special Administrative Region. The header includes the department's logo and name. A large blue banner on the left announces 'The Amended Dangerous Goods Ordinance' effective from March 31, 2022. The main content area features a grid of eight icons with corresponding text links. The 'Licence' link, located in the top right of the grid, is highlighted with a red rectangular box. A large red arrow points from the top right towards this box. Other visible links include 'Regulation of Dangerous Goods', 'What are Dangerous Goods?', 'Packing, Marking and Labelling', 'Pressure Receptacle', 'Information and Statistics', 'Frequently Asked Questions', and 'Contact Us'. A search bar is positioned at the bottom of the main content area.

Fire Services Department
The Government of the Hong Kong Special Administrative Region

The Amended Dangerous Goods Ordinance
March 31, 2022
Effective

**Proper Regulation
Better Protection**
24-Month
Enhancing safety

Search Dangerous Goods by UN/HK Number or Proper Shipping Name

Regulation of Dangerous Goods

What are Dangerous Goods?

Packing, Marking and Labelling

Licence

Pressure Receptacle

Information and Statistics

Frequently Asked Questions

Contact Us

Where is the Application Guide?

A Guide to Application for
Dangerous Goods Licence and
Approval

Industrial Buildings with Licensed
Dangerous Goods Stores

Invalid Dangerous Goods
Conveyance Licence

Form

Home > L

A Guide
and App



A Guide to Application for Dangerous Goods Licence and Approval

(for Class 2 to Class 9A Dangerous Goods
excluding Liquefied Petroleum Gas and other fuel gases
under Gas Safety Ordinance, Cap. 51, Laws of Hong Kong)

Fire Services Department
03/2022

and Approval

licence

Download in Full >

dangerous
goods

Information of the Previous FSD Connects



Fire Services Department
The Government of the Hong Kong Special Administrative Region

**The Amended
Dangerous Goods Ordinance**
March 31, 2022
Effective

**Proper Regulation
Better Protection**

24-Month
Enhancing safety

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Home Close

 Regulation of Dangerous Goods	 What are Dangerous Goods?	 Packing, Marking and Labelling	 Licence
 Pressure Receptacle	 Information and Statistics	 Frequently Asked Questions	 Contact Us

Information of the Previous FSD Connects

INFORMATION AND STATISTICS

Useful Information

Facts and Figures

Home > Information and Statistics > Useful Information

Useful Information

FSD Connects with the Relevant Industries of Dangerous Goods

Advisory Letters DG Related Offences Others

FSD Connects with the Relevant Industries of DG (26.8.2022):

- Presentation 
- Q&A 
- Video Playback 

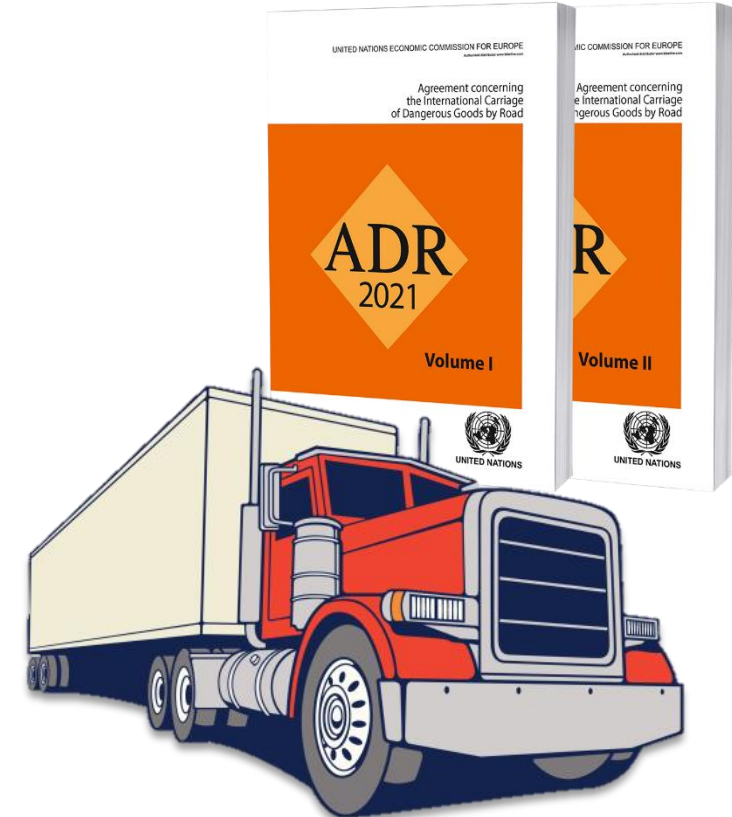
DANGEROUS GOODS

Frequently Asked Questions

International Air Transport
Association (IATA)



International Maritime
Dangerous Goods (IMDG) Code



Agreement concerning the
International Carriage of
Dangerous Goods by Road (ADR)

Frequently Asked Questions



Fire Services Department
The Government of the Hong Kong Special Administrative Region

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Home Close



**The Amended
Dangerous Goods Ordinance**
March 31, 2022
Effective

**Proper Regulation
Better Protection**

**24-Month
Enhancing safety**

Search Dangerous Goods by UN/HK Number or Proper Shipping Name



Regulation of
Dangerous Goods



What are Dangerous
Goods?



Packing, Marking and
Labelling



Licence



Pressure Receptacle



Information and
Statistics



**Frequently Asked
Questions**



Contact Us

Frequently Asked Questions

I. Control Regime under the
Dangerous Goods Ordinance

II. Classification of Dangerous Goods

III. Dangerous Goods Licence/
Approval Application and Exemption

IV. Packing, Marking and Labelling

V. Transitional Arrangement

VI. Dangerous Goods in
Consumer Packs

VII. Other Enquiries

Disclaimer

Home > Frequently Asked Questions > II. Classification of Dangerous Goods

II. Classification of Dangerous Goods

1. Under the amended Dangerous Goods Ordinance (Cap. 295), how can members of the public distinguish which substances are classified as Dangerous Goods? ^

Members of the public can distinguish Dangerous Goods ("DG") through the marking and labelling of the goods. They can also refer to Section 14 – "Transport Information" of the Safety Data Sheet ("SDS") of the goods, which lists the classification information of the UN Model Regulations on the Transport of Dangerous Goods, such as "UN number" and "proper shipping name". In Hong Kong, the local DG classification shares the same regime as the UN classification system for DG.

Different abbreviations will be used in Section 14 of the SDS depending on the international transportation code applicable to the DG, such as the transportation industry standard of the People's Republic of China, Regulations Concerning Road Transportation of Dangerous Goods (**JT/T 617**), International Maritime Dangerous Goods Code (**IMDG**), Agreement concerning the International Carriage of Dangerous Goods by Road (**ADR**) and International Air Transport Association Dangerous Goods Regulations (**IATA**), etc.

Members of the public can ascertain whether a substance is a DG under the Fire Service Department's regulation by entering the "UN number" and "proper shipping name" on the search engine of this website.

DA
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Pamphlets



Key Features of DG Thematic Website



The screenshot displays the Fire Services Department's website for the Dangerous Goods Ordinance. The header includes the department's logo and name, language options (English, Traditional Chinese, Simplified Chinese), and navigation icons. The main banner features a blue shield with the text 'The Amended Dangerous Goods Ordinance', 'March 31, 2022', and 'Effective'. To the right, the headline reads 'Proper Regulation of Dangerous Goods Better Protection for Our Home and Lives', followed by '24-Month Transitional Period' and 'Enhancing safety • Facilitating public and trades'. A search bar with the placeholder 'Search Dangerous Goods by UN/HK Number or Proper Shipping Name' is highlighted with a red rectangle. Below the search bar is an orange button labeled 'DG Search Engine'. The bottom section includes a video player with the title 'The amended Dangerous Goods Ordinance came into effect on 31 March 2022' and a 'DANGEROUS GOODS' warning sign.

Fire Services Department
The Government of the Hong Kong Special Administrative Region

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**The Amended
Dangerous Goods Ordinance**
March 31, 2022
Effective

**Proper Regulation of Dangerous Goods
Better Protection for Our Home and Lives**

24-Month Transitional Period
Enhancing safety • Facilitating public and trades

Search Dangerous Goods by UN/HK Number or Proper Shipping Name

DG Search Engine

Video

The amended Dangerous Goods Ordinance came into effect on 31 March 2022
The amended Dangerous Goods Ordinance and its Subsidiary
Legislation came into effect on March 31, 2022

DANGEROUS
GOODS

Searching in Chinese

The screenshot shows the Fire Services Department website. At the top left is the department's logo and name: "Fire Services Department, The Government of the Hong Kong Special Administrative Region". At the top right are language options: "A A A | EN 繁 简", where "繁" (Traditional Chinese) is circled in red. There are also home and menu icons. The main banner features a blue truck graphic with the text "The Amended Dangerous Goods Ordinance, March 31, 2022, Effective". To the right, it says "Proper Regulation of Dangerous Goods, Better Protection for Our Home and Lives, 24-Month Transitional Period, Enhancing safety • Facilitating public and trades". Below this is a search bar with the placeholder text "Search Dangerous Goods by UN/HK Number or Proper Shipping Name" and a magnifying glass icon. A blue box with white text states: "*Use the same language as the website to search". In the bottom left, there is a "Video" section with a thumbnail showing a video about the ordinance's implementation. In the bottom right, there is a red triangular warning sign with the text "DANGEROUS GOODS".

Fire Services Department
The Government of the Hong Kong Special Administrative Region

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The Amended Dangerous Goods Ordinance
March 31, 2022
Effective

Proper Regulation of Dangerous Goods
Better Protection for Our Home and Lives
24-Month Transitional Period
Enhancing safety • Facilitating public and trades

Search Dangerous Goods by UN/HK Number or Proper Shipping Name

*Use the same language as the website to search

Video

The amended Dangerous Goods Ordinance came into effect on 31 March 2022

DANGEROUS GOODS

Searching in English



Fire Services Department
The Government of the Hong Kong Special Administrative Region

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Proper Regulation of Dangerous Goods Better Protection for Our Home and Lives

24-Month Transitional Period
Enhancing safety • Facilitating public and trades

Search Dangerous Goods by UN/HK Number or Proper Shipping Name



Video



The amended Dangerous Goods Ordinance came into effect on 31 March 2022



Share

**DANGEROUS
GOODS**

Meaning of Class

< Dangerous Goods Search

UN No. / HK No.	1170
Proper Shipping Name / Packing Group (if any)	ETHANOL (also known as ETHYL ALCOHOL) or ETHANOL SOLUTION (also known as ETHYL ALCOHOL SOLUTION) / PG III
Class	3
Subsidiary Hazard	None
General Exempt Quantity	25
Industrial Exempt Quantity	150
Special Exempt Quantity	None
Limited Quantity	5
Maximum Package Size	1
Specifications	An aqueous solution containing not more than 24% alcohol by volume is not subject to the Dangerous Goods Ordinance (Cap. 295). 以體積計含酒精不多於24%的水溶液，不受《危險品條例》(第295章)所管限。

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Unit of Measurement

UN No. / HK No.	1170
Proper Shipping Name / Packing Group (if any)	ETHANOL (also known as ETHYL ALCOHOL) or ETHANOL SOLUTION (also known as ETHYL ALCOHOL SOLUTION) / PG III
Class	3
Subsidiary Hazard	None
General Exempt Quantity	25
Industrial Exempt Quantity	150
Special Exempt Quantity	None
Limited Quantity	5
Maximum Package Size	1
Specifications	An aqueous solution containing not more than 24% alcohol by volume is not subject to the Dangerous Goods Ordinance (Cap. 295). 以體積計含酒精不多於24%的水溶液，不受《危險品條例》(第295章)所管限。
Supplementary Notes (Appendix 4)	None
Packing (Appendix 5)	
Basic Packing Instructions (BP)	BP001
Special Packing Instruction (SP)	-
Compatibility	None

Ethanol (UN1170) was entitled to both
General & Industrial Exempt Quantity



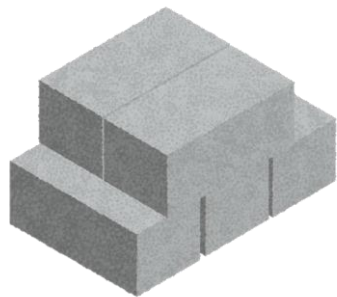
Need to get licence
when storing, using or conveying DG
in excess of Exempt Quantity



Unit of Measurement

General Exempt Quantity		25
Industrial Exempt Quantity		150
Special Exempt Quantity		None

Unit of measurement



Kilogram (kg)



Litre (L)



Water Capacity in Litre (L)

Limited Quantity & Maximum Package Size

UN No. / HK No.	1170
Proper Shipping Name / Packing Group (if any)	ETHANOL (also known as ETHYL ALCOHOL) or ETHANOL SOLUTION (also known as ETHYL ALCOHOL SOLUTION) / PG III
Class	3
Subsidiary Hazard	None
General Exempt Quantity	25
Industrial Exempt Quantity	150
Special Exempt Quantity	None
Limited Quantity	5
Maximum Package Size	1

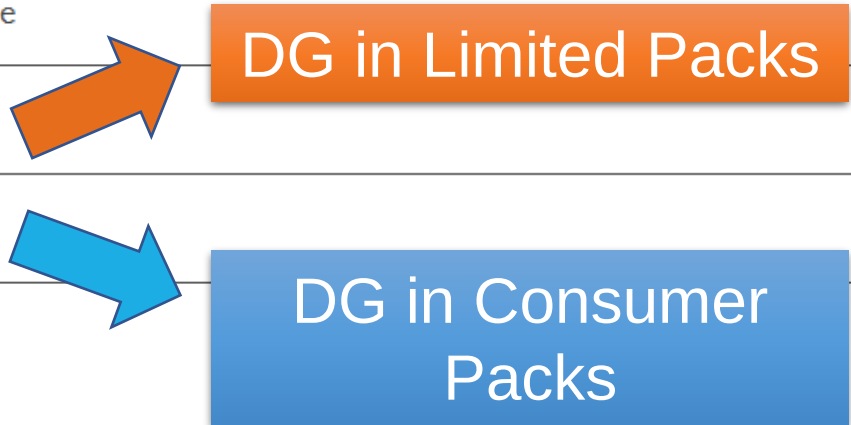


Diagram illustrating the relationship between Limited Quantity and Maximum Package Size:

- Limited Quantity (5) is associated with DG in Limited Packs.
- Maximum Package Size (1) is associated with DG in Consumer Packs.

DG in Limited Packs

Packing

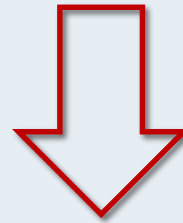


Marking

Labelling

Exempted

Receptacle Volume $\leq$ **Limited Quantity**



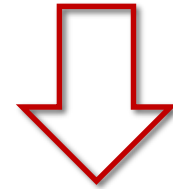
Basic Packing Instructions /
Special Packing Instructions

Required

DG in Consumer Packs (DGCP)



Receptacle Volume $\leq$ **Maximum Package Size**



DGCP



Packing

Marking

Labelling



UN 1170

Ethanol



Exempted

Pamphlet for Packing, Marking & Labelling



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Search Dangerous Goods by UN/HK Number or Proper Shipping Name



Video

**DANGEROUS
GOODS**

The amended Dangerous Goods Ordinance comes into effect on 31 March 2022

Basic Packing Instructions

UN No. / HK No.	1170
Proper Shipping Name / Packing Group (if any)	ETHANOL (also known as ETHYL ALCOHOL) or ETHANOL SOLUTION (also known as ETHYL ALCOHOL SOLUTION) / PG III
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Supplementary Notes (Appendix 4)	None
Packing (Appendix 5) Basic Packing Instructions (BP)	BP001

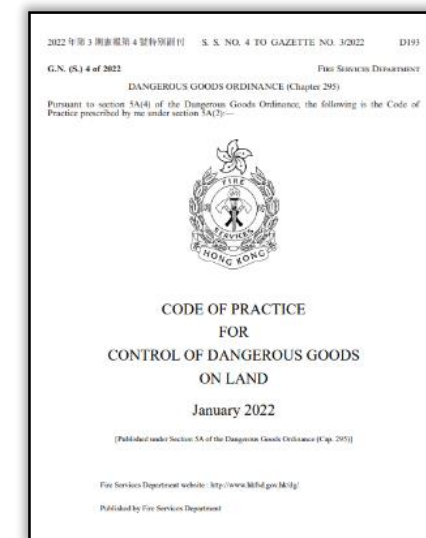
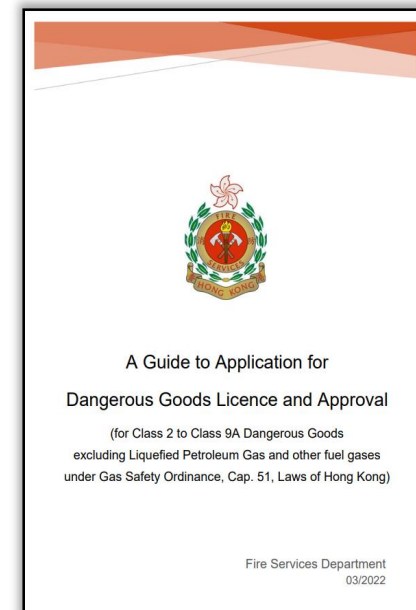
DANGEROUS
GOODS

Search Result

Cap.295E

Cap.295G

UN No. / HK No.
Proper Shipping Name / Packing Group (if any)
Class
Subsidiary Hazard
General Exempt Quantity
Industrial Exempt Quantity
Special Exempt Quantity
Limited Quantity
Maximum Package Size
Specifications
Supplementary Notes (Appendix 4)
Packing (Appendix 5)
Basic Packing Instructions (BP)
Special Packing Instruction (SP)
Compatibility

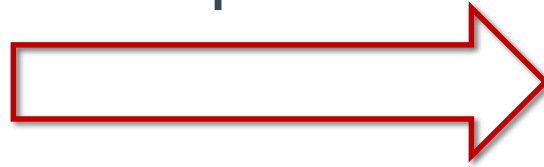


Case Study 1 – DGCP



Container = 4L

Repack



DGCP

Maximum Package Size = ?
Packing instruction = ?

Case Study 1 – DGCP

Safety Data Sheet (SDS)

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name	CONSUMER COMMODITY
Hazard Class	ORM-D
Description	CONSUMER COMMODITY, ORM-D
Emergency Response Guide Number	127

UN No.: UN1170
Proper Shipping Name: Ethanol Solution
Packing Group: III

TDG

UN-No.	UN1170
Proper Shipping Name	ETHANOL SOLUTION
Hazard Class	3
Packing Group	III
Description	UN1170, ETHANOL SOLUTION, 3, III

MEX

UN-No.	UN1170
Proper Shipping Name	ETHANOL SOLUTION
Hazard Class	3
Packing Group	III
Description	UN1170, ETHANOL SOLUTION, 3, III

ICAO

UN-No.	ID8000
Proper Shipping Name	CONSUMER COMMODITY
Hazard Class	9
Description	ID8000, CONSUMER COMMODITY, 9

IATA

UN-No.	ID8000
Proper Shipping Name	CONSUMER COMMODITY
Hazard Class	9
ERG Code	9L
Description	ID8000, CONSUMER COMMODITY, 9

IMDG/IMO

UN-No.	UN1170
Proper Shipping Name	ETHANOL SOLUTION
Hazard Class	3
Packing Group	III
EmS-No.	F-E, S-D
Description	UN1170, ETHANOL SOLUTION, 3, III, (32°C C.C.)

RID

UN-No.	UN1170
Proper Shipping Name	ETHANOL SOLUTION
Hazard Class	3
Packing Group	III
Classification code	F1
Description	UN1170, ETHANOL SOLUTION, 3, III

ADR

UN-No.	UN1170
Proper Shipping Name	ETHANOL SOLUTION
Hazard Class	3
Packing Group	III
Classification code	F1
Tunnel restriction code	D/E
Description	UN1170, ETHANOL SOLUTION, 3, III

ADN

UN-No.	UN1170
Proper Shipping Name	ETHANOL SOLUTION
Hazard Class	3
Packing Group	III
Classification code	F1
Special Provisions	144, 601
Description	UN1170, ETHANOL SOLUTION, 3, III

Case Study 1 – DGCP



Fire Services Department
The Government of the Hong Kong Special Administrative Region

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**The Amended
Dangerous Goods Ordinance**
March 31, 2022
Effective

Proper Regulation of Dangerous Goods Better Protection for Our Home and Lives

24-Month Transitional Period
Enhancing safety • Facilitating public and trades

Search Dangerous Goods by UN/HK Number or Proper Shipping Name



Video



The amended Dangerous Goods Ordinance came into effect on 31 March 2022
The amended Dangerous Goods Ordinance and its Subsidiary
Legislation came into effect on March 31, 2022



**DANGEROUS
GOODS**

Case Study 2 – Packing of DG



Drain Cleaner = 4L

What is the suitable packing for storing 4L drain cleaner?

Case Study 2 – Packing of DG

Safety Data Sheet (SDS)

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

14.1 UN number

UN-No. (ADR)	: UN 1824
UN-No. (IMDG)	: UN 1824
UN-No. (IATA)	: UN 1824

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: SODIUM HYDROXIDE SOLUTION
Proper Shipping Name (IMDG)	: SODIUM HYDROXIDE SOLUTION
Proper Shipping Name (IATA)	: Sodium hydroxide solution
Transport document description (ADR)	: UN 1824 SODIUM HYDROXIDE SOLUTION, 8, III, (E)
Transport document description (IMDG)	: UN 1824 SODIUM HYDROXIDE SOLUTION, 8, III
Transport document description (IATA)	: UN 1824 Sodium hydroxide solution, 8, III

14.4. Packing group

Packing group (ADR)	: III
Packing group (IMDG)	: III
Packing group (IATA)	: III

UN No.:	UN1824
Proper Shipping Name:	Sodium Hydroxide Solution
Packing Group:	III

Case Study 2 – Packing of DG



Fire Services Department
The Government of the Hong Kong Special Administrative Region

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Video



The amended Dangerous Goods Ordinance came into effect on 31 March 2022
The amended Dangerous Goods Ordinance and its Subsidiary
Legislation came into effect on March 31, 2022

Share

**DANGEROUS
GOODS**



消防處

Fire Services Department

The importance of safety data sheet in DG safety and understanding the compatibility of DG with the Code of Practice

Senior Station Officer

TAM Tsz-kin

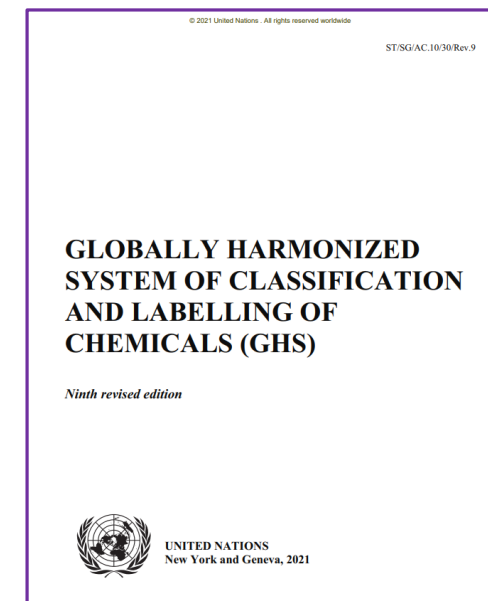
Dangerous Goods Control Division

Licensing and Certification Command

Fire Services Department

Importance of Safety Data Sheet (SDS)

- ◆ Compared to Material Safety Data Sheet (MSDS), SDS are:
 - Adhere to Globally Harmonized System (GHS)
 - Standardized 16 sections format
- ◆ Why is SDS important?



GHS Rev. 9. 2021

1. Product Identification	2. Hazard Identification	3. Composition/Information on Ingredients	4. First Aid Measures
5. Fire Fighting Measures	6. Accidental Release Measures	7. Handling and Storage	8. Exposure Controls and Personal Protection
9. Physical and Chemical Properties	10. Stability and Reactivity	11. Toxicological Information	12. Ecological Information
13. Disposal Considerations	14. Transport Information	15. Regulatory Information	16. Other Information

Section 1: Product Identification

- (a) Product name and description;
- (b) Recommended use of the chemical and restrictions on use;
- (c) Supplier's details (including name, address, phone number etc.);
- (d) Emergency phone number.

Section 2: Hazard Classifications

- (a) Health Hazard (17 classes), Physical Hazard (10 classes) & Environmental Hazard (2 classes)
- (b) Hazard pictograms;
- (c) Signal word "Danger" or "Warning" (Danger > Warning in hazard);
- (d) Hazard statements;
- (e) Precautionary statements.



FLAME



FLAME
OVER CIRCLE



EXPLODING BOMB



CORROSION



GAS CYLINDER



SKULL &
CROSSBONES



EXCLAMATION MARK



ENVIRONMENT



HEALTH HAZARD

Hazard Pictograms

Section 2: Hazard Classifications

Classification	Class
Physical Hazards (17 classes)	•Explosives •Flammable Gases •Aerosols and Chemical under Pressure •Oxidizing Gases •Gases Under Pressure •Flammable Liquids •Flammable Solids •Self-Reactive Substances and Mixtures •Pyrophoric Liquids •Pyrophoric Solids •Self-Heating Substances and Mixtures •Substances which, in contact with water emit flammable gases •Oxidizing Liquids •Oxidizing Solids •Organic Peroxides •Corrosive to Metals •Desensitized explosives
Health Hazards (10 classes)	•Acute Toxicity •Skin Corrosion/Irritation •Serious Eye Damage/Eye Irritation •Respiratory or Skin Sensitization •Germ Cell Mutagenicity •Carcinogenicity •Reproductive Toxicology •Target Organ Systemic Toxicity - Single Exposure •Target Organ Systemic Toxicity - Repeated Exposure •Aspiration Hazard
Environmental Hazards (2 classes)	•Hazardous to Aquatic Environment •Hazardous to the Ozone Layer

Classification			Labelling				GHS hazard statement codes
GHS hazard class	GHS hazard category	UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictogram	GHS signal word	GHS hazard statement	
Oxidizing liquids	1	5.1			Danger	May cause fire or explosion; strong oxidizer	H271
	2				Danger	May intensify fire; oxidizer	H272
	3				Warning		

Classification			Labelling				GHS hazard statement codes
GHS hazard class	GHS hazard category	UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictogram	GHS signal word	GHS hazard statement	
Carcinogenicity	1, 1A, 1B	Not applicable		Not applicable	Danger	May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	H350
	2				Warning	Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	H351



HEALTH HAZARD

Respiratory sensitization
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
Specific target organ toxicity – single exposure
Specific target organ toxicity – repeated exposure
Aspiration hazard



SKULL & CROSSBONES

Acute toxicity



EXCLAMATION MARK

Explosives
Acute toxicity
Skin corrosion / irritation
Serious eye damage / eye irritation
Skin sensitization
Specific target organ toxicity – single exposure
Hazardous to the ozone layer



FLAME

Self-reactive substances and mixtures
Self-heating substances and mixtures
Substances and mixtures, which in contact with water, emit flammable gases
Organic peroxides
Desensitized explosives

Flammable gases
Flammable liquids
Flammable solids
Pyrophoric liquids
Pyrophoric solids
Aerosols
Chemical under pressure



FLAME OVER CIRCLE

Oxidizing gases
Oxidizing liquids
Oxidizing solids



CORROSION

Corrosive to metals
Skin corrosion / irritation
Serious eye damage / eye irritation



GAS CYLINDER

Chemical under pressure
Gases under pressure



EXPLODING BOMB

Explosives
Self-reactive substances and mixtures
Organic peroxides



ENVIRONMENT

Hazardous to the aquatic environment, short-term (Acute)
Hazardous to the aquatic environment, long-term (Chronic)

Example:

HYDROGEN PEROXIDE, AQUEOUS SOLUTION, PGII, UN2014



Hazard Statement:

H272: Oxidizing liquid, Cat.3

H318: Serious eye damage, Cat.1

H314: Skin Corrosion, Cat 1C

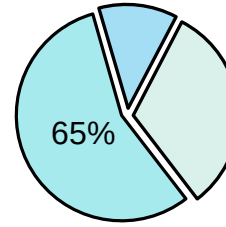
H301: Acute toxicity, Cat.3

Precautionary statements:

P210: Keep away from flames and hot surface

Section 3: Composition/information on ingredients

- (a) Composition of the product;
- (b) Concentration of each ingredient;
- (c) CAS Number.



Section 4: First-aid measures

- (a) Description of necessary measures i.e. inhalation, skin and eye contact.



Section 5: Fire-fighting measures

- (a) Suitable (and unsuitable) extinguishing media;
- (b) Fire fighting techniques;
- (c) Special protective equipment and precautions for fire-fighters.

Section 6: Accidental release measures

- (a) Personal precautions, protective equipment and emergency procedures;
- (b) Proper methods and materials for containment and cleaning up.

Section 7: Handling and storage

- (a) Precautions for safe handling;
- (b) Conditions for safe storage.

Section 8: Exposure controls/personal protection

- (a) Exposure limit values;
- (b) Individual protection measures.

Section 9: Physical and chemical properties

- (a) complete technical description on the physical and chemical properties;
- (b) Boiling point, melting point/freezing point, flash point, solubility, etc.

Section 10: Stability and reactivity

- (a) Reactivity;
- (b) Chemical stability;
- (c) Conditions to avoid (e.g. static discharge, shock or vibration);
- (d) Materials to avoid.

Section 11: Toxicological

information

- (a) Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact);
- (b) Delayed and immediate effects and also chronic effects from short- and long-term exposure.

Section 12: Ecological information

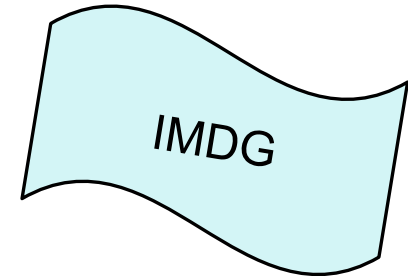
- (a) Ecotoxicity;
- (b) Short or long-term threat to the environment.

Section 13: Disposal considerations

- (a) Description of waste residues and information on their safe handling and methods of disposal.

Section 14: Transport information

- (a) IMDG, ADR, IATA, DOT Transport Information;
- (b) UN number, proper shipping name, packaging group, hazard class.



Section 15: Regulatory information

- (a) Safety, health and environmental regulations.

Section 16: Other information

Compatibility of DG – SDS (S.14 Transport Info.)

14. Transport information

DOT

UN-No UN2214
Proper Shipping Name PHTHALIC ANHYDRIDE
Hazard Class 8
Packing Group III

TDG

UN-No UN2214
Proper Shipping Name PHTHALIC ANHYDRIDE
Hazard Class 8
Packing Group III

IATA

UN-No UN2214
Proper Shipping Name PHTHALIC ANHYDRIDE
Hazard Class 8
Packing Group III

MDG/IMO

UN-No UN2214
Proper Shipping Name PHTHALIC ANHYDRIDE
Hazard Class 8
Packing Group III

Step 1: Check SDS

Step 2: Visit DG
Thematic Website /
Code of Practice Ch. 2.3

Successfully obtain
CG & CR

2214

-Class-



-Subsidiary Hazard-



-Maximum Package Size-



-Compatibility-



UN No. /
HK No.

Proper Shipping Name / Packing Group (if any)

Class

Subsidiary
Hazard

Maximum
Package Size

Compatibility

2214

PHTHALIC ANHYDRIDE / PG III

8

None

None

CG1, CR6,
CR19



Compatibility of DG – Application Form

Part 5: Particulars of S2DG (please attach supplementary sheet(s) if space provided is insufficient)

第五部份：附表 2 危險品的資料 (如空位不敷應用，請另用附頁)

Items No. 項目編號	UN No. / HK No. 聯合國編號 / 香港編號	Proper Shipping Name + 正式運輸名稱 (Please provide description of relevant dangerous goods on existing licence) (請提供現有牌照上相關危險品的名稱)	Classification 類別	Subsidiary Hazard (if any 如有) 次要危險性	Packing Group (if any 如有) 包裝類別	Compatibility Group (CG) and Compatibility Rule (CR)^ 相容組別和相容規則^ (if any 如有)	Maximum Quantity# for Storage and Use in Aggregate 總共貯存和使用的最多分量# *Delete as appropriate 刪除不適用者	Storage in Tank 以貯槽貯存
1	UN2214	PTHALIC ANHYDRIDE	8	None	III	CG1, CR6, CR19	L / kg*	☐
2							L / kg*	☐
3							L / kg*	☐

Step 1: Check SDS



Step 2: Visit DG Thematic Website / Code of Practice Ch. 2.3



Particulars of S2DG

-Class-

-Subsidiary Hazard-

Maximum Package Size-

-Compatibility-

UN No. / HK No.	Proper Shipping Name / Packing Group (if any)	Class	Subsidiary Hazard	Maximum Package Size	Compatibility
2214	PTHALIC ANHYDRIDE / PG III	8	None	None	CG1, CR6, CR19

Compatibility of DG – Code of Practice Ch. 2.3



Fire Services Department
The Government of the Hong Kong Special Administrative Region

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REGULATION OF DANGEROUS GOODS



Authority

Legislation

Dangerous Goods List

Code of Practice

Dangerous Goods Standing Committee

Home >

Code of Practice

About

Part I

Part II

Part III

Chapter 2.3 Compatibility of DG

2.3.1 Legal Requirements

2.3.1.1 Pursuant to section 110 of Cap. 295G:

- (1) A person must not store, or cause or permit to be stored, 2 or more types of S2DG (whether or not of the same class) that are incompatible in a licensed store.
- (2) For subsection (1), 2 or more types of S2DG are incompatible if, when they come into contact with each other or all others—
 - (a) a combustion occurs or is likely to occur;
 - (b) considerable heat is, or is likely to be, generated;
 - (c) a flammable, asphyxiant, oxidizing or toxic gas is, or is likely to be, generated;
 - (d) a corrosive substance is, or is likely to be, formed; or
 - (e) a chemically unstable substance is, or is likely to be, formed.

(3) Without limiting subsection (1)—

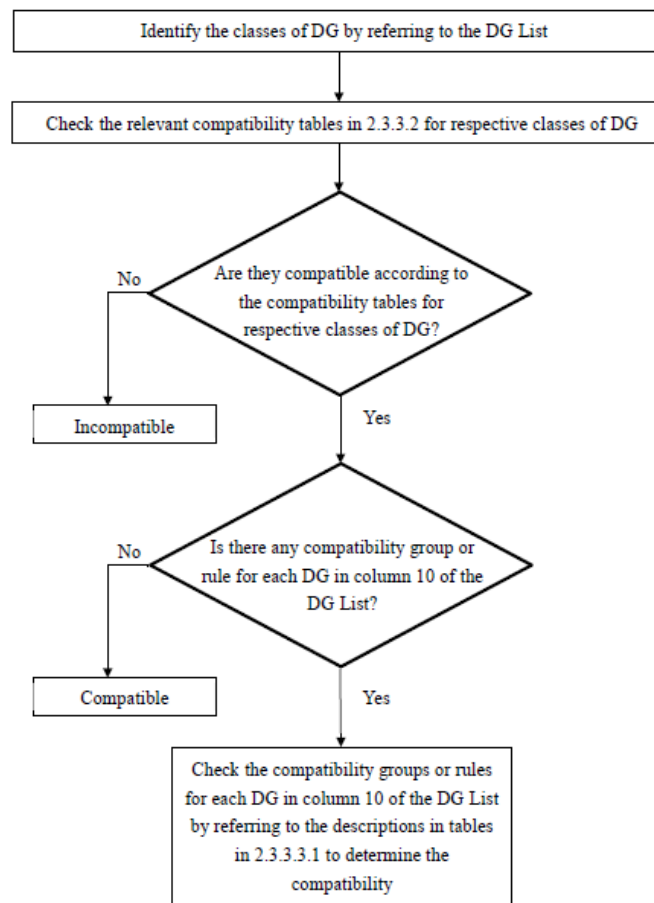
- (a) Class 2 S2DG must not be stored with S2DG of a different class;
- (b) Class 3 S2DG must not be stored with S2DG of a different class, except Class 3A S2DG or paint materials that are Class 3 S2DG or Class 8 S2DG;
- (c) Class 3A S2DG must not be stored with S2DG of a different class, except Class 3 S2DG or paint materials that are Class 3 S2DG or Class 8 S2DG; and
- (d) Class 4 S2DG, Class 5 S2DG, Class 6.1 S2DG, Class 8 S2DG or Class 9 S2DG must not be stored with Class 2 S2DG, Class 3 S2DG or Class 3A S2DG, or S2DG of any other class so specified for the purposes of this paragraph in the code of practice.

- (4) A person who contravenes subsection (1) commits an offence and is liable on conviction to a fine at level 4 and to imprisonment for 2 months.

2.3.2 General Application

- 2.3.2.1 Multiple types of DG shall not be stored together in a licensed store if they are incompatible. This chapter provides a practical guidance on how to determine the compatibility of DG to facilitate the application

2.3.6 Flowchart for Determining the Compatibility of DG



Step 1: Check SDS



Step 2: Visit DG Thematic Website / Code of Practice Ch. 2.3



Step 3: Check Compatibility Table

Compatibility of DG – Compatibility Table

<u>CLASS</u>	<u>2.1#</u>	<u>2.2#</u>	<u>2.3#</u>
Flammable gases (2.1)	O	O	X
Non-flammable, non-toxic gases (2.2)	O	O	O
Toxic gases (2.3)	X	O	O

O Column 10 of the DG List shall be referred

X Incompatible

Class 2 DG in limited packs are compatible with each other regardless of the table in 2.3.3.2.1 above and their CG & CR.

Class 2

<u>CLASS</u>	<u>3#</u>	<u>3A#</u>	<u>8*#</u>
Flammable liquids (3)	O	O	O
Diesel oils, furnace oils and other fuel oils (3A)	O	O	O
Paint materials (8*)	O	O	O

O Column 10 of the DG List shall be referred and Class 3 or 3A DG, which are immiscible²⁷ with water, are incompatible with any such DG, which are miscible with water.

* Only for paint materials that are Class 8 DG.

Class 3, 3A DG in limited packs and paint materials in limited packs are compatible with each other regardless of their miscibility and any CG & CR.

Class 3 / 3A / 8 (Paint Material)

<u>Class</u>	<u>4.1#</u>	<u>4.2#</u>	<u>4.3#</u>	<u>5.1#</u>	<u>5.2#</u>	<u>6.1#</u>	<u>8#</u>	<u>9#</u>
Flammable solids (4.1)	O	O	O	O	X	O	O	O
Substances liable to spontaneous combustion (4.2)	O	O	O	X	X	O	O	O
Substances which, in contact with water, emit flammable gases (4.3)	O	O	O	X	X	O	O	O
Oxidizing substances (5.1)	O	X	X	O	X*	O	X	O
Organic peroxides (5.2)	X	X	X	X*	O	O	X	O
Toxic substances (6.1)	O	O	O	O	O	O	O	O
Corrosive substances (8)	O	O	O	X	X	O	O	O
Miscellaneous dangerous substances or materials (9)	O	O	O	O	O	O	O	O

O Column 10 of the DG List shall be referred

X Incompatible

* Class 5.1 or 5.2 DG in table 2.3.3.2.6 below are compatible with each other.

Regardless of the table in 2.3.3.2.5 above and CG & CR of the DG:

(a) Class 4, 5, 6.1, 8 & 9 DG in limited packs are compatible with each other; and

(b) Class 4, 5, 6.1, 8 & 9 DG which comprise the same substance but vary only in their water content are compatible with each other.

Class 4-9

Compatibility of DG – Example

Example:

**SODIUM HYDROXIDE
SOLUTION / PG II (UN1824)
Class 8, CG18 and CR5**

and

**SULPHURIC ACID / PG II
(UN1830)
Class 8, CG1a, CR6 and
CR19**



Table - List of Compatibility Groups	
Compatibility Group	Description
CG1	Acids
CG1a	Strong acids
CG2	Ammonium compounds
CG3	Bromates
CG4	Chlorates
CG5	Chlorites
CG6	Cyanides
CG7	Heavy metals and their salts (including their organometallic compounds)
CG8	Hypochlorites
CG9	Lead and its compounds
CG10	Liquid halogenated hydrocarbons
CG11	Mercury and mercury compounds
CG12	Nitrites and their mixtures
CG13	Perchlorates
CG14	Permanganates
CG15	Powdered metals
CG16	Peroxides
CG17	Azides
CG18	Alkalis

Table - List of Compatibility Rules	
Compatibility Rule	Description
CR1	For arsenic sulphides, incompatible with CG1 – acids or CG1a – strong acids
CR2	Incompatible with CG1a – strong acids
CR3	Incompatible with Class 5.1 DG
CR4	Incompatible with Class 4.1 DG
CR5	Incompatible with CG1 – acids or CG1a – strong acids
CR6	Incompatible with CG18 – alkalis
CR7	Incompatible with CG19 – oxidizing gases
CR8	Incompatible with CG15 – powdered metals
CR9	Incompatible with ammonia

~~Compatible?~~



消防處

Fire Services Department

How to Apply for Pressure Receptacle Approval

Senior Station Officer

CHAU Choi-lung

Dangerous Goods Enforcement Division

Licensing and Certification Command

Fire Services Department

What do we share in this session?

- ◆ **Application for Pressure Receptacle Approval under Cap. 295G**
- ◆ **Application Procedure**
- ◆ **Application Form**
- ◆ **Way to Speed-up Application Process**



Legislation (s.145, Dangerous Goods (Control) Regulation, Cap 295G)

- The amended Dangerous Goods Ordinance and its subsidiary legislation has come into effect on 31 March 2022



Approved by the Director



Inspected or tested by an approved person



Exemption

Refillable or Non-refillable
in Limited Packs

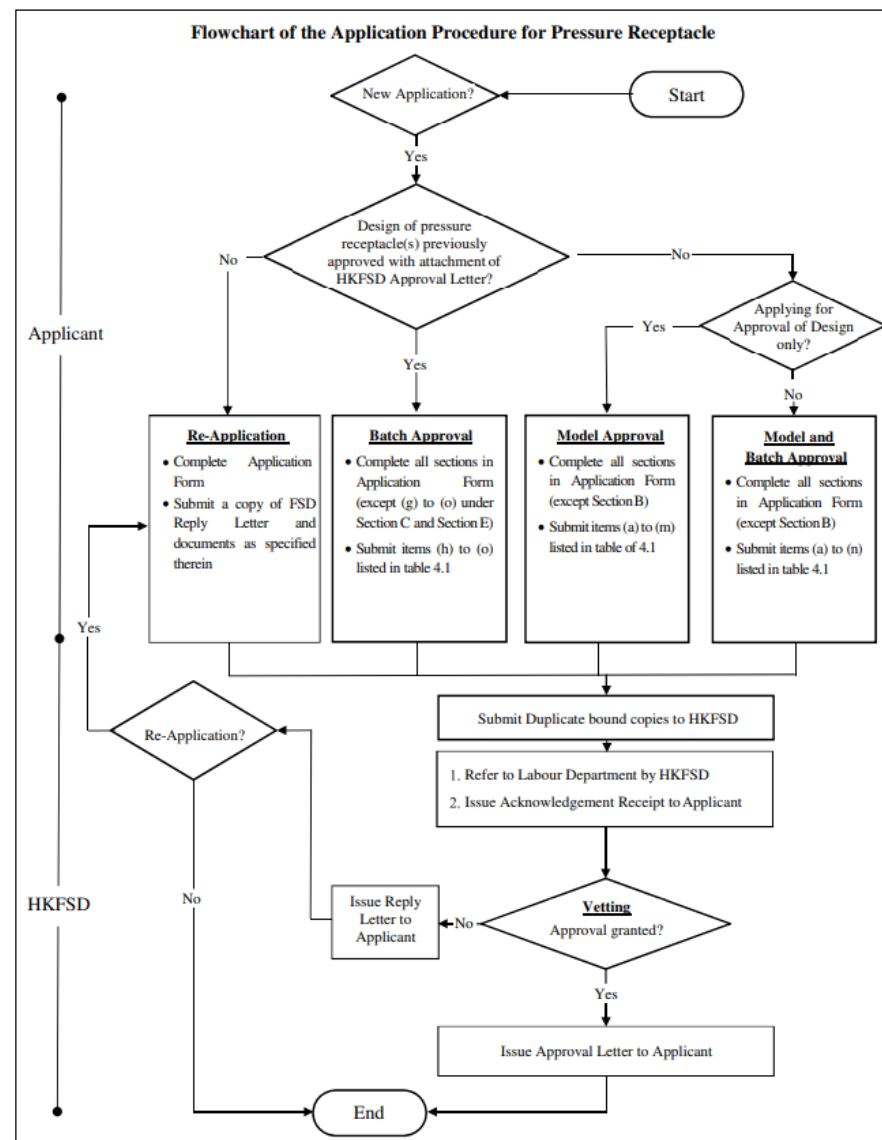
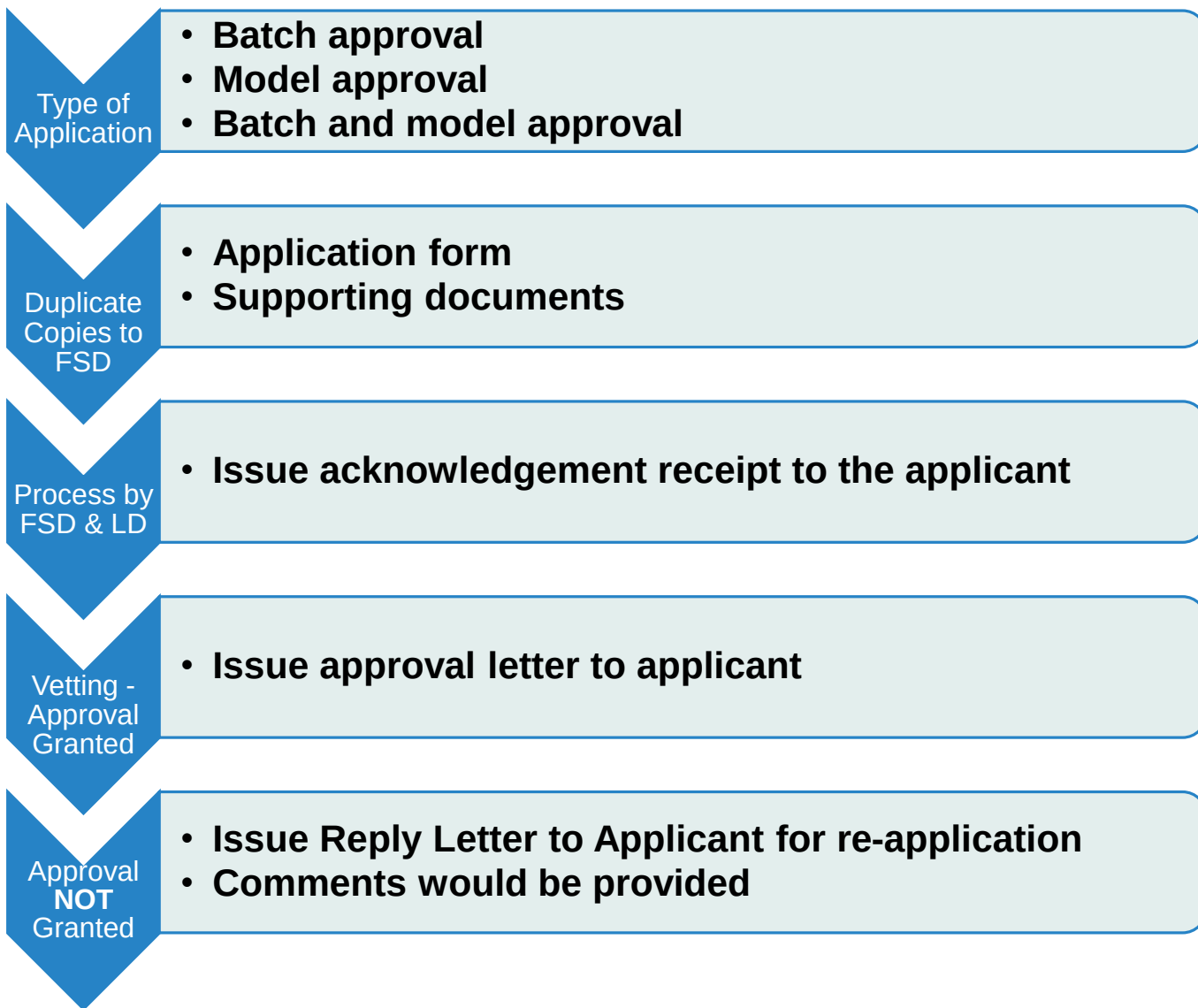
Non-refillable
Meets the standards specified in CoP



Class	Water Capacity of the Receptacle	Working Pressure of the Receptacle
(A) Class 2	≤ 1 litre	--
(B) Class 2.1 or 2.2	≤ 5 litres	> 35 bars and ≤ 250 bars
	≤ 25 litres	≤ 35 bars



Application Procedure



Application Form

- Visit www.hkfsd.gov.hk/dg
- Pressure Receptacle →
- Approval Application →
- Application Form for Pressure Receptacle Approval



The screenshot shows the Fire Services Department website. The top banner features the Fire Services Department logo and the text "The Amended Dangerous Goods Ordinance March 31, 2022 Effective". Below the banner is a navigation menu with icons for "Regulation of Dangerous Goods", "What are Dangerous Goods?", "Packing, Marking and Labelling", "Licence", "Pressure Receptacle", "Information and Statistics", "Frequently Asked Questions", and "Contact Us". The "Pressure Receptacle" link is highlighted. Below the navigation menu is a "Video" section. The main content area shows the "Application Form for Pressure Receptacle Approval" page. The page has a breadcrumb trail: "Home > Pressure Receptacle > Approval Application > Application Form for Pressure Receptacle Approval > Back". The title is "Application Form for Pressure Receptacle Approval". Below the title is a link to "Application Form for Pressure Receptacle Approval". On the left side, there is a sidebar with links: "Approved Pressure Receptacle Search", "Guidelines on the Application for Pressure Receptacle Approval", "Application Form for Pressure Receptacle Approval", "Flowchart of Application for Pressure Receptacle Approval", and "Pressure Receptacle under the amended Dangerous Goods Ordinance". A "DANGEROUS GOODS" warning icon is visible in the bottom right corner.



For Official Use Only:

LIFIPS No.:

BPVA Ref.:

Date:

Vetting: Recommend / Not Recommend

批准壓力氣體容器申請表
Application Form for Pressure Receptacle Approval

注意事項 POINTS TO NOTE:

- (I) 填寫本申請表前，請閱讀以下指引並在閱讀後加上「✓」號。
Please read the following guidelines and (✓) accordingly before filling in this Form.
- 《申請危險品牌照及批准指南》第III部第2章
Ch. 2, Part III - A Guide to Application for Dangerous Goods Licence and Approval ☐
- 《管制陸上危險品工作守則》第四部
Part IV - Code of Practice for Control of Dangerous Goods on Land ☐
- (II) 每項申請的壓力氣體容器必須屬同一類型。
Each application must only contain pressure receptacle(s) of the same model.
- (III) 所有申請文件必須裝訂並附有頁碼，申請人必須就每項申請呈交一式兩份已裝訂的申請文件。
All documents submitted for the application must be bound with page numbers, and a duplicated set of bound documents for each submission is necessary.

(1) 提交申請的類別 Type of Application to be Submitted

☐ 新申請 New Application

☒ 重新申請 Re-Application

請根據消防處最近一次發出的回覆函件填寫相關資料：

Please complete the following sections with reference to the latest FSD's reply letter

消防處檔號

FSD File Ref.:

() in FP L/M

個案編號

LIFIPS No.:

消防處回覆日期

FSD's Reply Date

(2) 申請批准的類別 Type of Application for Approval

☐ 型號批准 Model approval

☒ 批次批准 Batch approval

☐ 型號及批次批准 Model and Batch approval

甲項 - 申請人資料 Section A - Applicant Information

(a) 公司檔號 (如有) Company Reference No. (If available)

(b) 申請人姓名 Applicant Name

(c) 公司名稱 Company Name

(d) 公司地址 Company Address

(e) 聯絡人姓名 Contact Person Name

(f) 電話號碼 Telephone No.

(g) 傳真號碼 Fax No.

(h) 電郵地址 E-mail Address

乙項 - 消防處已批准的壓力氣體容器類型 (只供「批次批准」類別的申請使用)

Section B - Model of pressure receptacle previously approved by the FSD

(For "Batch Approval" application use)

(a) 消防處檔案 FSD File Ref.:

() in FP L/M

(b) 個案編號

LIFIPS No.:

(c) 消防處批准日期

FSD Approval Date

(d) 設計圖則編號 Design Drawing No.:

(i) 壓力氣體容器 Pressure Receptacle

修改方案 Rev.

日期 Date

(ii) 閥門 Valve

修改方案 Rev.

日期 Date

丙項 - 壓力氣體容器資料

Section C - Information of Pressure Receptacle

(a) 製造廠名稱 Manufacturer Name

(b) 製造廠地址 Manufacturer Address

(c) 製造日期 Manufacture Date			
如申請多過一個批次的壓力氣體容器，請使用附錄一。 If applying more than one batch of pressure receptacle(s), please use Appendix I.			
(d) 編號 Serial No.			
如壓力氣體容器編號不是依次排列，請以獨立分頁表列。 If serial numbers of the pressure receptacle(s) are not in sequence, please tabulate them in a separate sheet.			
從 From	至 To	除 Except	共 Total
(e) 總數量 Total No.		(f) 型號 (如有) Model No. (If available)	
(g) 設計圖則編號 Design Drawing No.		修改方案 Rev.	日期 Date
(h) 種類 Type			
☐ 氣瓶 Cylinder ☒ 真空隔熱絕緣液體氣缸 VIE Tank ☐ 其他 Other:			
(i) 氣體類別 Classification of Gas		(j) 氣體狀態 Condition of Gas	
☒ 第2.1類 Class 2.1 易燃氣體 Flammable ☐ 第2.2類 Class 2.2 非易燃、無毒性氣體 Non-flammable, non-toxic ☒ 第2.3類 Class 2.3 毒性氣體 Toxic		☐ 壓縮氣體 Compressed gas ☒ 液化氣體 Liquefied gas ☐ 冷凍液化氣體 Refrigerated liquefied gas ☐ 溶解氣體 Dissolved gas ☐ 吸附氣體 Adsorbed gas ☐ 其他 Others	
(k) 氣體資料/聯合國編號 Gas(es) Details/UN No.			
(l) 瓶身物料種類 Type of Body Material			
☒ 鋁質焊接 Welded Aluminum ☐ 鋼質無縫 Seamless Steel ☐ 鋼質釐焊 Brazed Steel ☐ 鋁質無縫 Seamless Aluminum ☐ 纖維纏繞 Filament-wound ☐ 絕熱焊接 Welded Insulated ☐ 鋼質焊接 Welded Steel ☐ 其他 Others			
(m) 水容量 Size/Water Capacity			
公升 Litre			
(n) 工作壓力 Working Pressure			
磅每平方英寸 PSI 巴 Bar 兆帕 MPa (1 Bar = 14.5 psi)			
(o) 充注率 (如適用) Filling Ratio (If applicable)			

丁項 - 壓力氣體容器測試及檢驗資料 Section D - Testing and Inspection Information of Pressure Receptacle(s)		
如申請多過一個批次的壓力氣體容器，請使用附錄一。 If applying more than one batch of pressure receptacle(s), please use Appendix I		
(a) 獨立檢驗主管當局/機構 Independent Inspection Authority/Body		
(b) 標準/規格 Standards/Specifications		
(c) 測試壓力 Testing Pressure		
磅每平方英寸 PSI 巴 Bar 兆帕 MPa (1 Bar = 14.5 psi)		
(d) 檢驗報告編號 Inspection Report No.	日期 Date	
(e) 測試報告編號 Test Report No.:		
(i) 構造物料的物理測試 Physical Test:	(ii) 材料化學分析 Chemical Analysis of Material:	
(iii) 其他測試報告 (如有) Other Test Report (If available)		
名稱 Name	編號 No.	日期 Date
名稱 Name	編號 No.	日期 Date

戊項 - 閥門規格 Section E - Valve Specification		
(a) 圖則編號 Drawing No.	修改方案 Rev.	日期 Date
(b) 製造廠名稱 Manufacturer	(c) 型號 Model No.	(d) 設計規格 Design Specification/Standard
(e) 工作壓力 Working Pressure		
磅每平方英寸 PSI 巴 Bar 兆帕 MPa (1 Bar = 14.5 psi)		
(f) 瓶間螺紋規格 Inlet Threads Specification	(g) 材料 Material	
(h) 適用氣體 Suitable for Gas(es)		

己項 - 定期測試規範 Section F - Specification of Periodic Test	
壓力氣體容器的定期測試將會根據: The Periodic Test of the pressure receptacles would be conducted in accordance with:	
☒ 測試標準 Testing Standard (請註明標準 Please specify the standard) (每 年一次, 測試壓力為 巴 At a frequency of years, at testing pressure of Bar)	
☐ 《管制陸上危險品工作守則》Code of Practice for Control of Dangerous Goods on Land	

庚項 - 申請人聲明 Section G - Declaration of Applicant			
本人現聲明已閱讀「注意事項」，並向消防處呈交所需文件，以申請批准壓力氣體容器： I hereby declare that I have read the "POINTS TO NOTE" and submit the required documents to the Fire Services Department in support of my application for Pressure Receptacle Approval.			
	有關項目 Relevant Section	請「✓」 Please (✓)	在內頁 At Page
(a) 壓力氣體容器型號及設計 Model and Design of Pressure Receptacle(s)	「丙項」(C)	☐	☐
(b) 技術細則及圖則 Technical Details and Drawing(s)	「丙項」(C)	☐	☐
(c) 設計規格和計算書 Design Specification and Calculation	「丙及丁項」 (C & D)	☐	☐
(d) 氣體資料 Gas(es) Details	「丙項」(C)	☐	☐
(e) 閥門規格 Valve Specification	「戊項」(E)	☐	☐
(f) 以纖維纏繞製成的壓力氣體容器（如適用）： For filament-wound composite receptacles (if applicable):	「丙項」(C)	☐	☐
i. 延長使用壽命計劃 Life extension plan ii. 非破壞性檢測計劃 NDE scheme iii. 維修保養手冊 Maintenance manuals			
(g) 產品目錄 Product Catalogue	不適用 Not Applicable	☐	☐
(i) 閥門 Valve			
(ii) 壓力氣體容器 Pressure Receptacle			
(h) 製造廠證明書 Manufacturer's Certificate	「丙項」(C)	☐	☐
(i) 檢驗報告 Inspection Report	「丁項」(D)	☐	☐
(j) 構造物料的物理測試 Report of Physical Test	「丁項」(D)	☐	☐
(k) 材料化學分析報告 Report of Chemical Analysis of Material	「丁項」(D)	☐	☐
(l) 其他測試報告 Other Test Report(s)	「丁項」(D)	☐	☐
(m) 加熱處理的詳情 Details of any heat treatment	「丁項」(D)	☐	☐
(n) 壓力氣體容器編號 Serial Numbers of pressure receptacle(s)	「丙項」(C)	☐	☐
(o) 消防處過去就相關壓力氣體容器類型發出的批准信 Previous FSD's approval letter(s) for respective design of pressure receptacle(s)	「注意事項」 (Points to Note)	☐	☐
(p) 消防處要求的其他文件 Other documents requested by FSD	「注意事項」 (Points to Note)	☐	☐
(q) 消防處回覆函件 FSD's reply letter(s)	「注意事項」 (Points to Note)	☐	☐

注意 NOTE:

以上各項目是申請批准壓力氣體容器所需呈交的文件。所有文件必須以中英文撰寫或印製。申請人須向消防處呈交一式兩份的文件連同申請表以便辦理有關申請。假如你未能提供上述文件，或上述文件並不完整，或上述文件所提及的壓力氣體容器不符合《申請危險品牌照及批准指南》第III部第2章指明的標準/規格，消防處將會無法處理有關申請。

The submission of the above mentioned documents is required for the Application for Pressure Receptacle Approval. All documents must be written or printed in Chinese/English. Applicants must submit all application documents including the application form in duplicate to the Fire Services Department for processing. If you do not provide such documents, or such documents are not complete, or the pressure receptacle(s) as referred to in such documents do not comply with the standards/specifications as specified in Chapter 2, Part III of "A Guide to Application for Dangerous Goods Licence and Approval", the Fire Services Department will not be able to process your application.

本人聲明就本人所知所信，本申請表所填寫的各項資料均為正確、完備和真實。本人明白任何人為本申請的目的而言，明知而故意申報失實或填報其明知為虛假或不相信為真實的資料，根據香港法例即屬違法，可被檢控。

I declare that all information given in the application form is correct, complete and true to the best of my knowledge and belief. I understand that any person who knowingly and willfully makes a statement or gives information which he/she knows to be false or does not believe to be true for the purpose of this application shall be guilty of an offence under the Laws of Hong Kong and is liable to prosecution.

申請人簽署
Applicant Signature

公司蓋印(如適用)
Company Chop
(if applicable)

申請日期
Application Date

請將申請文件一式兩份寄往：

Please send the application documents in duplicate to:

香港九龍
尖沙咀東部康莊道 1 號
消防總部大廈 5 樓
牌照及審批總區
調查及研究組

Investigation & Research Section
Licensing and Certification Command
5/F, Fire Services Headquarters
1 Hong Chong Road Tsim Sha Tsui East
Kowloon, Hong Kong

查詢 Enquiry

如欲得到更多資訊和意見，請聯絡：

For further information and advice, please contact :

電話號碼 Tel. No. : (852) 2733 7827

傳真 fax : (852) 2367 3631

第 批次 Batch No.

丙項 - 壓力氣體容器資料 Section C – Pressure Receptacle Information			
(a) 製造日期 Manufacture Date			
(b) 編號 Serial No.			
從 From	至 To	除 Except	共 Total

丁項 - 壓力氣體容器測試及檢驗資料 Section D – Testing and Inspection Information		
(a) 獨立檢驗主管當局/機構 Independent Inspection Authority/Body		
(b) 標準/規格 Standards/Specifications		
(c) 測試壓力 Testing Pressure		
巴 Bar	兆帕 MPa	磅每平方英寸 PSI
		(1 Bar = 14.5 psi)
(d) 檢驗報告編號 Inspection Report No		
(i) 構造物料的物理測試 Physical Test	(ii) 材料化學分析 Chemical Analysis of Material	

(iii) 其他測試報告 (如有) Other Test Report (If available)	
名稱 Name	編號 No.
名稱 Name	編號 No.

第 批次 Batch No.

丙項 - 壓力氣體容器資料 Section C – Pressure Receptacle Information			
(a) 製造日期 Manufacture Date			
(b) 編號 Serial No.			
從 From	至 To	除 Except	共 Total

丁項 - 壓力氣體容器測試及檢驗資料 Section D – Testing and Inspection Information		
(a) 獨立檢驗主管當局/機構 Independent Inspection Authority/Body		
(b) 標準/規格 Standards/Specifications		
(c) 測試壓力 Testing Pressure		
巴 Bar	兆帕 MPa	磅每平方英寸 PSI
		(1 Bar = 14.5 psi)
(d) 檢驗報告編號 Inspection Report No		
(i) 構造物料的物理測試 Physical Test	(ii) 材料化學分析 Chemical Analysis of Material	
(iii) 其他測試報告 (如有) Other Test Report (If available)		

名稱 Name	編號 No.	日期 Date
名稱 Name	編號 No.	日期 Date

第 批次 Batch No.

丙項 - 壓力氣體容器資料 Section C – Pressure Receptacle Information			
(a) 製造日期 Manufacture Date			
(b) 編號 Serial No.			
從 From	至 To	除 Except	共 Total

丁項 - 壓力氣體容器測試及檢驗資料 Section D – Testing and Inspection Information		
(a) 獨立檢驗主管當局/機構 Independent Inspection Authority/Body		
(b) 標準/規格 Standards/Specifications		
(c) 測試壓力 Testing Pressure		
巴 Bar	兆帕 MPa	磅每平方英寸 PSI
		(1 Bar = 14.5 psi)
(d) 檢驗報告編號 Inspection Report No		
(i) 構造物料的物理測試 Physical Test	(ii) 材料化學分析 Chemical Analysis of Material	

(iii) 其他測試報告 (如有) Other Test Report (If available)	

編號 No.	
編號 No.	

丁項 - 壓力氣體容器測試及檢驗資料 Section D – Testing and Inspection Information		
(a) 獨立檢驗主管當局/機構 Independent Inspection Authority/Body		
(b) 標準/規格 Standards/Specifications		
(c) 測試壓力 Testing Pressure		
巴 Bar	兆帕 MPa	磅每平方英寸 PSI
		(1 Bar = 14.5 psi)
(d) 檢驗報告編號 Inspection Report No		
(i) 構造物料的物理測試 Physical Test	(ii) 材料化學分析 Chemical Analysis of Material	
(iii) 其他測試報告 (如有) Other Test Report (If available)		

名稱 Name	編號 No.	日期 Date
名稱 Name	編號 No.	日期 Date

第 批次 Batch No.

丙項 - 壓力氣體容器資料 Section C – Pressure Receptacle Information			
(a) 製造日期 Manufacture Date			
(b) 編號 Serial No.			
從 From	至 To	除 Except	共 Total

丁項 - 壓力氣體容器測試及檢驗資料 Section D – Testing and Inspection Information		
(a) 獨立檢驗主管當局/機構 Independent Inspection Authority/Body		
(b) 標準/規格 Standards/Specifications		
(c) 測試壓力 Testing Pressure		
巴 Bar	兆帕 MPa	磅每平方英寸 PSI
		(1 Bar = 14.5 psi)
(d) 檢驗報告編號 Inspection Report No		
(i) 構造物料的物理測試 Physical Test	(ii) 材料化學分析 Chemical Analysis of Material	
(iii) 其他測試報告 (如有) Other Test Report (If available)		

編號 No.	日期 Date
編號 No.	日期 Date

附錄四 Appendix IV

第 批次 Batch No.

丙項 - 壓力氣體容器資料 Section C – Pressure Receptacle Information			
(a) 製造日期 Manufacture Date			
(b) 編號 Serial No.			
從 From	至 To	除 Except	共 Total

丁項 - 壓力氣體容器測試及檢驗資料 Section D – Testing and Inspection Information		
(a) 獨立檢驗主管當局/機構 Independent Inspection Authority/Body		
(b) 標準/規格 Standards/Specifications		
(c) 測試壓力 Testing Pressure		
巴 Bar	兆帕 MPa	磅每平方英寸 PSI
		(1 Bar = 14.5 psi)
(d) 檢驗報告編號 Inspection Report No		
(i) 構造物料的物理測試 Physical Test	(ii) 材料化學分析 Chemical Analysis of Material	
(iii) 其他測試報告 (如有) Other Test Report (If available)		

名稱 Name	編號 No.	日期 Date
名稱 Name	編號 No.	日期 Date

Supporting Documents for Application

Item	Supporting Document	New Application			Re- application / Submission of Supplementary Information
		Model	Batch	Model and Batch	
(a)	Model and Design of Receptacle(s)	✓		✓	As specified in FSD's Reply Letter
(b)	Technical Details and Drawing(s)	✓		✓	
(c)	Design Specification and Calculation	✓		✓	
(d)	Gas(es) Details	✓		✓	
(e)	Valve Specification	✓		✓	
(f)	For filament-wound composite receptacle (if applicable): (i) Life extension plan; (ii) NDE scheme; and (iii) Maintenance manuals	✓		✓	
(g)	Product Catalogue (if applicable) of: (i) Pressure Receptacle (ii) Valve	✓		✓	
(h)	Manufacturer's Certificate	✓	✓	✓	
(i)	Inspection Report issued by recognized independent inspection authority/body	✓	✓	✓	
(j)	Report of Physical Test	✓	✓	✓	
(k)	Report of Chemical Analysis of Material	✓	✓	✓	
(l)	Other Test Report(s)	✓	✓	✓	
(m)	Details of any heat treatment	✓	✓	✓	
(n)	Serial numbers of Pressure Receptacle(s)		✓	✓	
(o)	Previous FSD's approval letter(s) for respective model/design of respective Pressure Receptacle(s)		✓		
(p)	Other documents requested by FSD (if any)				
(q)	Copy of FSD's Reply Letter(s)				✓



Standards Accepted by FSD

American Standards (DOT)

Australian Standards (AS)

British Standards (BS)

Canadian Standards (CTC)

Chinese Standards (GB)

Japanese Standards (JIS)



Way to Speed-up Application Process

1. Sufficient Supporting Documents

- ❑ Independent body inspection report
- ❑ The pressure receptacle drawings



Item	Supporting Document	New Application			Re- application / Submission of Supplementary Information
		Model	Batch	Model and Batch	
(a)	Model and Design of Receptacle(s)	✓		✓	As specified in FSD's Reply Letter
(b)	Technical Details and Drawing(s)	✓		✓	
(c)	Design Specification and Calculation	✓		✓	
(d)	Gas(es) Details	✓		✓	
(e)	Valve Specification	✓		✓	
(f)	For filament-wound composite receptacle (if applicable): (i) Life extension plan; (ii) NDE scheme; and (iii) Maintenance manuals	✓		✓	
(g)	Product Catalogue (if applicable) of: (i) Pressure Receptacle (ii) Valve	✓		✓	
(h)	Manufacturer's Certificate	✓	✓	✓	
(i)	Inspection Report issued by recognized independent inspection authority/body	✓	✓	✓	
(j)	Report of Physical Test	✓	✓	✓	
(k)	Report of Chemical Analysis of Material	✓	✓	✓	
(l)	Other Test Report(s)	✓	✓	✓	
(m)	Details of any heat treatment	✓	✓	✓	
(n)	Serial numbers of Pressure Receptacle(s)		✓	✓	
(o)	Previous FSD's approval letter(s) for respective model/design of respective Pressure Receptacle(s)		✓		
(p)	Other documents requested by FSD (if any)				
(q)	Copy of FSD's Reply Letter(s)				✓

Way to Speed-up Application Process

2. Accurate Calculation

- ❑ Cylinder Design
- ❑ Valve Design
- ❑ Thickness of Cylindrical Shell
- ❑ Wall Stress at Pressure Test



Item	Supporting Document	New Application			Re- application / Submission of Supplementary Information
		Model	Batch	Model and Batch	
(a)	Model and Design of Receptacle(s)	✓		✓	As specified in FSD's Reply Letter
(b)	Technical Details and Drawing(s)	✓		✓	
(c)	Design Specification and Calculation	✓		✓	
(d)	Gas(es) Details	✓		✓	
(e)	Valve Specification	✓		✓	
(f)	For filament-wound composite receptacle (if applicable): (i) Life extension plan; (ii) NDE scheme; and (iii) Maintenance manuals	✓		✓	
(g)	Product Catalogue (if applicable) of: (i) Pressure Receptacle (ii) Valve	✓		✓	
(h)	Manufacturer's Certificate	✓	✓	✓	
(i)	Inspection Report issued by recognized independent inspection authority/body	✓	✓	✓	
(j)	Report of Physical Test	✓	✓	✓	
(k)	Report of Chemical Analysis of Material	✓	✓	✓	
(l)	Other Test Report(s)	✓	✓	✓	
(m)	Details of any heat treatment	✓	✓	✓	
(n)	Serial numbers of Pressure Receptacle(s)		✓	✓	
(o)	Previous FSD's approval letter(s) for respective model/design of respective Pressure Receptacle(s)		✓		
(p)	Other documents requested by FSD (if any)				
(q)	Copy of FSD's Reply Letter(s)				✓

Way to Speed-up Application Process

3. Information Consistency

- ❑ Serial Number (Pressure Receptacles)
- ❑ Type of Gas
- ❑ Manufacture Date
- ❑ Working Pressure
- ❑ Testing Pressure

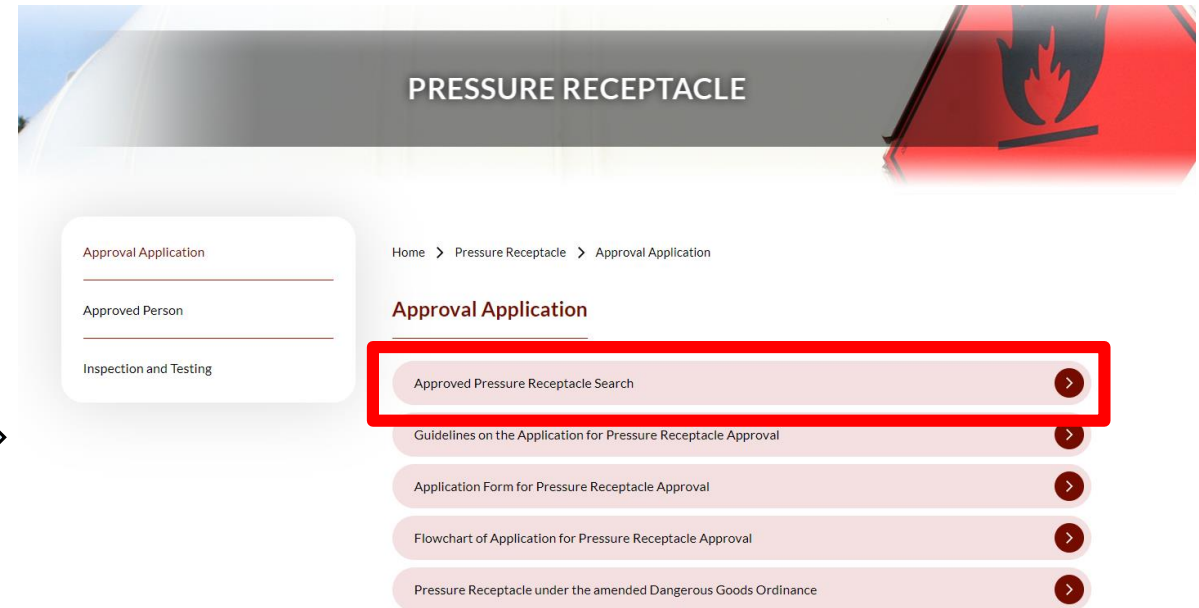
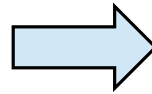


Item	Supporting Document	New Application			Re- application / Submission of Supplementary Information
		Model	Batch	Model and Batch	
(a)	Model and Design of Receptacle(s)	✓		✓	As specified in FSD's Reply Letter
(b)	Technical Details and Drawing(s)	✓		✓	
(c)	Design Specification and Calculation	✓		✓	
(d)	Gas(es) Details	✓		✓	
(e)	Valve Specification	✓		✓	
(f)	For filament-wound composite receptacle (if applicable): (i) Life extension plan; (ii) NDE scheme; and (iii) Maintenance manuals	✓		✓	
(g)	Product Catalogue (if applicable) of: (i) Pressure Receptacle (ii) Valve	✓		✓	
(h)	Manufacturer's Certificate	✓	✓	✓	
(i)	Inspection Report issued by recognized independent inspection authority/body	✓	✓	✓	
(j)	Report of Physical Test	✓	✓	✓	
(k)	Report of Chemical Analysis of Material	✓	✓	✓	
(l)	Other Test Report(s)	✓	✓	✓	
(m)	Details of any heat treatment	✓	✓	✓	
(n)	Serial numbers of Pressure Receptacle(s)		✓	✓	
(o)	Previous FSD's approval letter(s) for respective model/design of respective Pressure Receptacle(s)		✓		
(p)	Other documents requested by FSD (if any)				
(q)	Copy of FSD's Reply Letter(s)				✓

Way to Speed-up Application Process

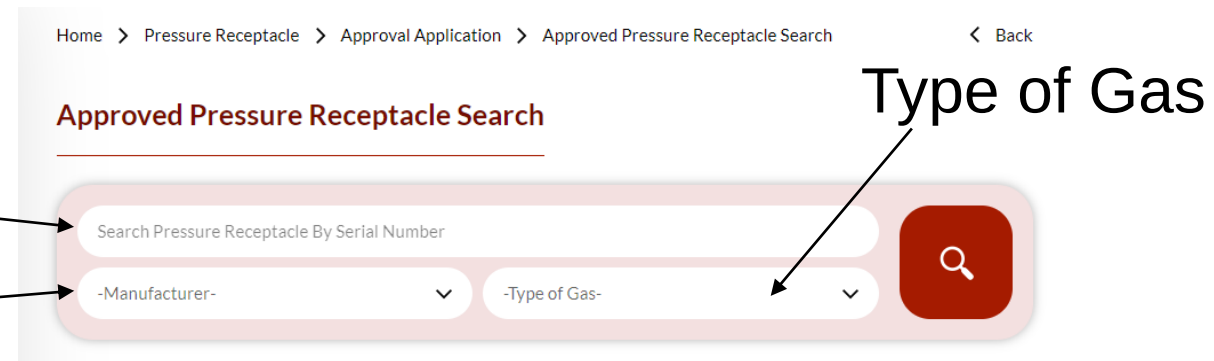
4. Use of DG Thematic Website

- ❑ Legislations
- ❑ DG Search Engine
- ❑ Cylinder/AP Search Engine
- ❑ Code of Practice
- ❑ Application Guide



Serial number

Manufacturer





消防處

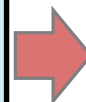
Fire Services Department

Q & A

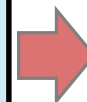
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Select Category
揀選分類



**Leave the
Question**
填寫問題



**Provide Contact
Information**
填寫聯絡資料

More Information

❖ General Enquiry:

➔ hkfsd_dg_enq@hkfsd.gov.hk

❖ Code of Practice, “Application Guide”, Pamphlets, Videos:

➔ **DG Thematic Website** (www.hkfsd.gov.hk/dg)



More Information

- ❖ Manufacture, Storage and Use of DG
 - ➔ **Dangerous Goods Control Division (2417 5757)**
- ❖ Conveyance of DG, Pressure Receptacles & Approved Persons
 - ➔ **Dangerous Goods Enforcement Division (3850 8487)**



Report Fire Hazards

❖ DG or IFA Complaints:

➔ **Fire Services Communication Centre**

2723 8787 (24-hour)





消防處

Fire Services Department

To be Continued in Next Sharing...

