



消防處

Fire Services Department

# **FSD Connects** **with the Relevant Industries of** **Dangerous Goods**

**14 November 2023**

# AGENDA

Introduction

**Mr. LAU Tat-san**

Topic 1: Frequently Asked Questions about Control of Dangerous Goods

**Mr. TANG Hiu-fung**

Topic 2: Points to Note on Compliance Inspection for Dangerous Goods Licences

**Mr. LEE Chin-pang**

Topic 3: Introduction to the storage of Class 9A S3DG

**Mr. WONG Ho-tak**

Q & A Session

**All Speakers**



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Fire Services Department

# Frequently Asked Questions about Control of Dangerous Goods

## 危險品規管的常見問題

Senior Station Officer

TANG Hiu-fung

Dangerous Goods Legislative Division

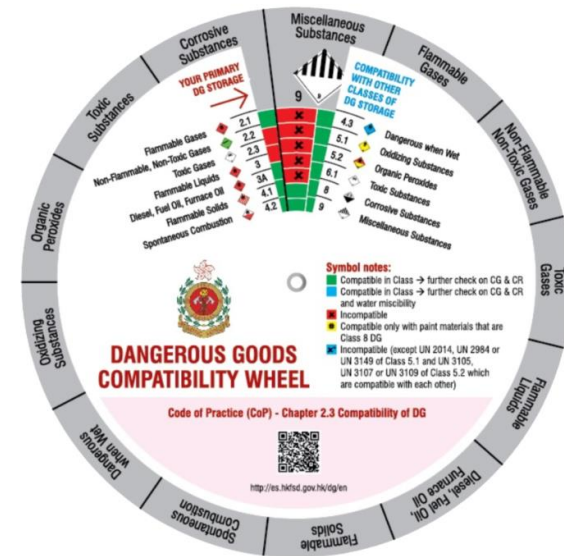
Licensing and Certification Command

Fire Services Department

# Frequently Asked Questions



Classification of Bleach



Compatibility Group 19 & Compatibility Rule 7

# Frequently Asked Questions



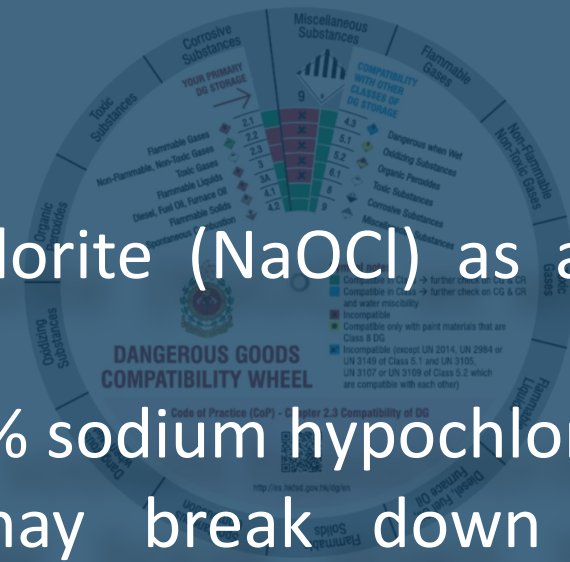
Bleach

## Classification of Bleach

### Background

- Sodium hypochlorite ( $\text{NaOCl}$ ) as an active ingredient
- Contains 3% - 8% sodium hypochlorite
- Hypochlorite may break down to give Chlorine

**Compatibility Groups 19 & Compatibility Rule 7**



# Frequently Asked Questions



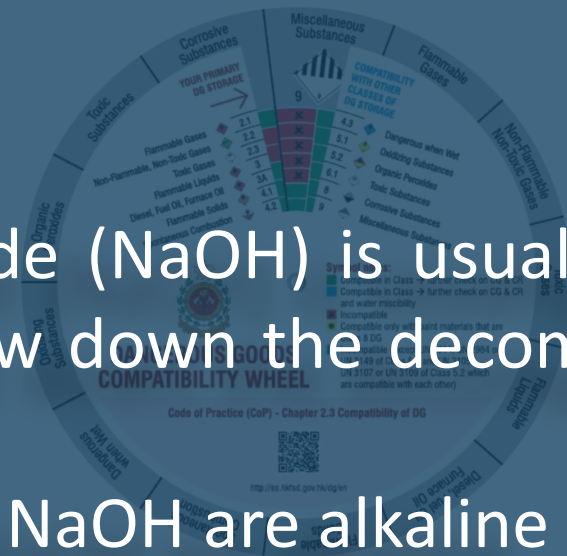
Bleach

## Classification of Bleach

### Background

- Sodium hydroxide (NaOH) is usually added to bleach to slow down the decomposition of hypochlorite
- Both NaOCl and NaOH are alkaline

Compatibility Groups 19 &  
Compatibility Rule 7



# Frequently Asked Questions



**Classification of Bleach**

## Classification of Bleach

- Hypochlorite solution is classified as Class 8 (Corrosive Substance) DG
- No concentration limit of hypochlorite was set for classification

**Compatibility Groups 19 &  
Compatibility Rule 7**



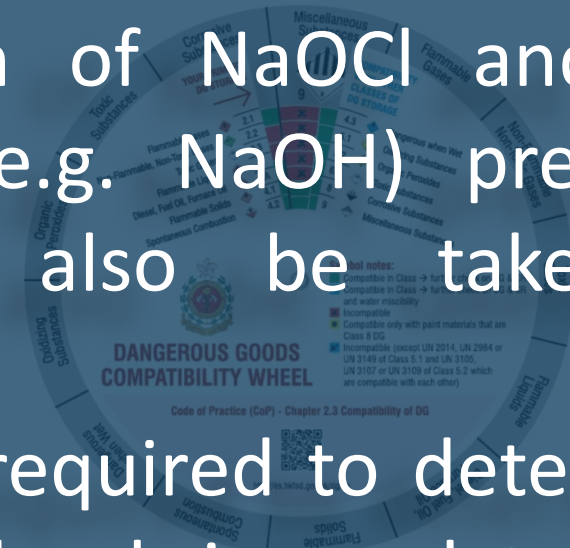
# Frequently Asked Questions



**Classification of Bleach**

## Conclusion

- Concentration of NaOCl and other ingredients (e.g. NaOH) present in bleach will also be taken into consideration
- SDS may be required to determine if the subject bleach is regulated under DG regulation or not





# Frequently Asked Questions



UN No.	Proper Ship Name / Packing Group (if any)	Class	Subsidiary Hazard	Maximum Package Size	Compatibility
1045	FLUORINE, COMPRESSED	2.3	5.1, 8	None	CG19, CR7

UN No.	Proper Ship Name / Packing Group (if any)	Class	Subsidiary Hazard	Maximum Package Size	Compatibility
3306	COMPRESSED GAS, TOXIC, OXIDIZING, CORROSIVE, N.O.S. (Fluorine, Helium)	2.3	5.1, 8	None	CG19, CR7

## Classification of Bleach



## Compatibility Group 19 & Compatibility Rule 7



# Frequently Asked Questions

**CG 19**

Flammable gases (non-flammable)

**CR 7**

Incompatible with Corrosive Substances



Classification of Bleach



**Compatibility Group 19 & Compatibility Rule 7**

# Frequently Asked Questions

- Composition causing oxidizing in both UN1045 and UN3306 **is the same**
- Considered **compatible** to each other in storage



Classification of Bleach



Compatibility Groups 19 & Compatibility Rule 7



# Frequently Asked Questions

UN No.	Proper Ship Name / Packing Group (if any)	Class	Subsidiary Hazard	Maximum Package Size	Compatibility
1045	FLUORINE, COMPRESSED	2.3	5.1, 8	None	CG19, CR7

UN No.	Proper Ship Name / Packing Group (if any)	Class	Subsidiary Hazard	Maximum Package Size	Compatibility
3306	COMPRESSED GAS, TOXIC, OXIDIZING, CORROSIVE, N.O.S. (Chlorine, Helium)	2.3	5.1, 8	None	CG19, CR7

Bleach  
漂白水

- Composition causing oxidizing in both UN1045 and UN3306 is **not the same**
- Considered **incompatible** to each other in storage



**Compatibility Group 19 & Compatibility Rule 7**





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Fire Services Department

# Points to Note on Compliance Inspection for Dangerous Goods Licences

## 危險品牌照合規巡查的 注意事項

Senior Station Officer

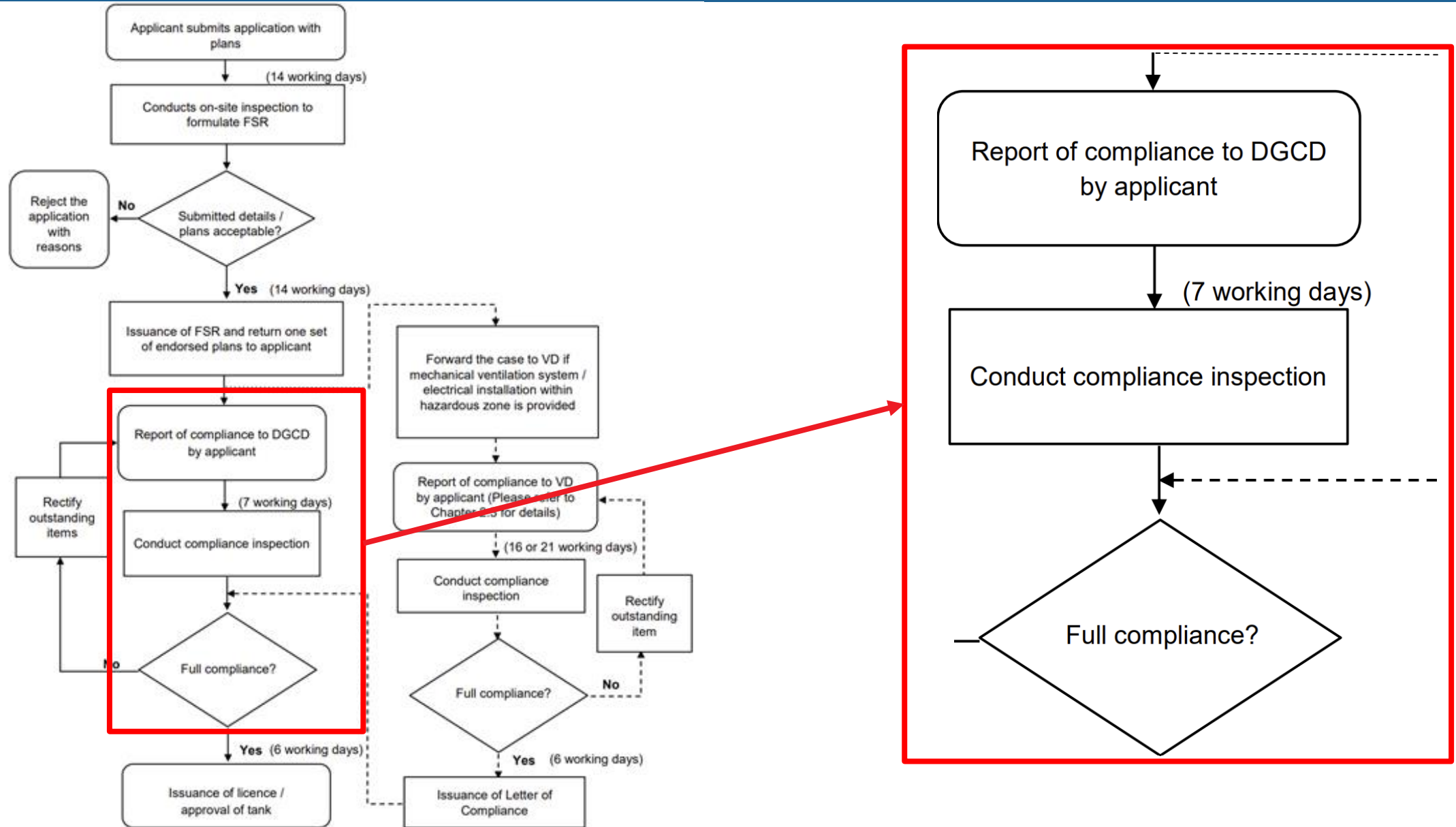
LEE Chin-pang

Dangerous Goods Control Division

Licensing and Certification Command

Fire Services Department

# Application Procedure for DG Licences



# Fire Safety Requirements (FSR)



## FIRE SAFETY REQUIREMENTS FOR DANGEROUS GOODS STORE 危險品貯存所的消防安全規定

Issue date 發出日期: X.X.2023	FSD Ref 消防處檔號: XXXX/XXXX			
Address of the store: XXXXX 貯存所的地址:				
Storage location: XXXXX 貯存所座落位置:				
Dangerous goods to be stored: 擬貯存的危險品	UN no. / HK no.	PSN / Packing Group, if any, (Class) (Subsidiary Hazard)	Quantity	in tank (Yes / No)
	UN 1002	AIR, COMPRESSED (2.2) (None)	200 L	No
	UN 1956	COMPRESSED GAS, N.O.S. (2.2) (None)	94 L	No
	Total		294 units	

### DESIGN and CONSTRUCTION 設計及建造

1. The dangerous goods store constructed of fire resisting materials throughout shall be provided in accordance with the latest plans approved in writing by the Director of Fire Services.  
須依照消防處處長書面批准的最新圖則設置全部以耐火物料建造的危險品貯存所。
2. The actual layout of the store, including the piping, fittings or equipment designed and constructed for the distribution of dangerous goods from the store (if applicable) shall be in accordance with the latest plans approved in writing by the Director of Fire Services.  
貯存所的實際布局，包括為輸送危險品而設計和建造的固定管道、裝置或設備（如有的話），須符合消防處處長書面批准的最新圖則。
3. Door opening(s) of the store shall be fitted with self-closing door(s) having a fire resistance rating of not less than one hour and being capable to be opened in the direction of egress.  
貯存所須設有不少於 1 小時耐火時效並向外開啟的自掩門。
4. Locking device shall be provided to the door(s) of the store to prevent unauthorized intrusions when not being attended.  
貯存所須設置鎖門裝置，以防止無人工作時被未經授權闖入。



## FIRE SAFETY REQUIREMENTS FOR DANGEROUS GOODS STORE 危險品貯存所的消防安全規定

Issue date 發出日期: X.X.2023	FSD Ref 消防處檔號: XXXX/XXXX
Address of the store: XXXXX 貯存所的地址:	
Storage location: XXXXX	

# Addendum to Fire Safety Requirements (Addendum to FSR)

## Addendum to Fire Safety Requirements

This Addendum is issued for adding the following clauses into the Fire Safety Requirements issued previously (“the Fire Safety Requirements”) in respect of the Licence with Licence No. XXXXX for the purpose of granting a new licence in accordance with the Dangerous Goods (Control) Regulation, Cap. 295G.

### Clause (1) – Validity of the Fire Safety Requirements

- 1.1 *The Fire Safety Requirements shall remain in force except amendments as stipulated in clauses (2) to (3) below to be made.*
- 1.2 *The granting of a new licence in accordance with the Dangerous Goods (Control) Regulation, Cap. 295G is subject to the compliance with the Fire Safety Requirements including the compliance with the amendment as stipulated in clauses (2) to (3).*

### Clause (2) – Heading and Particulars, etc. of the Fire Safety Requirements

- 2.1 *Heading of the Fire Safety Requirements is replaced by:*

FIRE SAFETY REQUIREMENTS FOR DANGEROUS GOODS STORE  
危險品貯存所的消防安全規定

- 2.2 *Particulars on the Fire Safety Requirements indicating the storage content and location, if any, are replaced by:*

Issue date 發出日期:	<b>X.X.2023</b>	FSD Ref 消防處檔號:	<b>XXXX/XXXX</b>		
Address of the store: 貯存所的地址:	<b>XXXXX</b>				
Storage location: 貯存所座落位置:	<b>(i) In an approved underground tank; and (ii) Two daily service tanks in fuel tank room on G/F</b>				
Dangerous goods to be stored: 擬貯存的危險品	UN no. / HK no.	PSN / Packing Group, if any, (Class) (Subsidiary Hazard)	Quantity	in tank (Yes / No)	
	<b>(i) H301</b>	<b>DIESEL/PGIII (3A) (None)</b>	<b>5,000 L</b>	<b>Yes</b>	
	<b>(ii) H301</b>	<b>DIESEL/PGIII (3A) (None)</b>	<b>500 L</b>	<b>Yes</b>	
Total			<b>5,500 L</b>		

## Addendum to Fire Safety Requirements

This Addendum is issued for adding the following clauses into the Fire Safety Requirements issued previously (“the Fire Safety Requirements”) in respect of the Licence with Licence No. XXXXX for the purpose of granting a new licence in accordance with the Dangerous Goods (Control) Regulation, Cap. 295G.





# DG Thematic Website

[www.hkfsd.gov.hk/dg](http://www.hkfsd.gov.hk/dg)



中華人民共和國香港特別行政區政府  
The Government of the Hong Kong Special Administrative Region  
of the People's Republic of China

ENGLISH | 繁體版 | 简体版 | 香港



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

Language and accessibility icons

**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/NAIK Number or Proper Shipping Name

Video



# A Guide to Application for DG Licence and Approval

The screenshot illustrates the navigation path on the Fire Services Department website. It shows the homepage with a search bar and a menu icon circled in green with an arrow pointing to it. Below the homepage, a navigation menu is shown with the 'Licence' icon circled in green and an arrow pointing to it. At the bottom, a search result for 'A Guide to Application for Dangerous Goods Licence and Approval' is shown, with the 'Download in Full' button circled in green and an arrow pointing to it.



The cover of the guide document features the Fire Services Department logo at the top center. Below the logo, the title is displayed in a large, bold font: "A Guide to Application for Dangerous Goods Licence and Approval". Underneath the title, a subtitle specifies the scope: "(for Class 2 to Class 9A Dangerous Goods Excluding Liquefied Petroleum Gas and Other Gases under Gas Safety Ordinance, Cap. 51, Laws of Hong Kong)". At the bottom right corner, the publisher information is given: "Fire Services Department 02/2023".

# Compliance Check List

	Description	Completed (Y/N)	Supporting Documentation Required			
			Catalogues	Approval Letters	FS 251	Remarks
<b>1.</b>	<b>General (Layout and Design)</b>					
1.1	Layout Identical to Approved Plans					
1.2	Fire Resisting Door					
1.3	Fire Resisting Construction Materials					
1.4	High / Low Ventilators					
1.5	Door Sill					
1.6	Vapour-escape Pipe (Vent Pipe)					
<b>2.</b>	<b>Electrical Installation and Fittings</b>					
2.1	Lighting Fittings					Note 1
2.2	Electrical Wiring					Note 1
2.3	Switchgear					Note 1
2.4	Electro-thermal Link/ Fire Damper			Note 2		
2.5	Mechanical Ventilation System					Note 3
2.6	Work Completion Certificate (Form WR1)					
2.7	Others:					
<b>3.</b>	<b>Fire Service Installations or Equipment</b>					
3.1	Fire Extinguisher					
3.2	Fixed Sprayer					
3.3	Fixed FSI					
3.4	Sand Buckets					
3.5	Fire Detection System					
<b>4.</b>	<b>Signs (Including Notices)</b>					
4.1	"NO SMOKING 不准吸煙" Notice					
4.2	"NO NAKED FLAME 不准明火" Notice					
4.3	"DANGEROUS GOODS 危險品" Notice					
4.4	Mark to Reflect UN no. / HK no. and PSN in Chinese and English of the DG Contained in Tank (if any)					
4.5	Pictorial Plate(s) to Reflect the Class(es) and Subsidiary Hazard(s)					
4.6	Notice Required at External Wall of Approaching Lobby (if any)					
<b>5.</b>	<b>Others</b>					
5.1	Confirmation Letter from Ultimate Licensee / User					
5.2	Copy of Business Registration Certificate					
5.3	Operation Manual as Required in FSR					
5.4	Level Sensor			Note 4		
5.5	Dispensing Facilities					Note 1
5.6	Manifolds and Control Panels for Piped Gas Installation					Note 1
5.7	Certificate of Piped Gas Installation					
5.8	Survey Report for Storage Tank					

- ◆ Requirements – Compliance Check List for Reporting Completion of Works



## Compliance Check List for Reporting Completion of Works

# Report of Compliance (FSR)

	Description	Completed (Y/N)	Supporting Documentation Required			
			Catalogues	Approval Letters	FS 251	Remarks
<b>1.</b>	<b>General (Layout and Design)</b>					
1.1	Layout Identical to Approved Plans					
1.2	Fire Resisting Door					
1.3	Fire Resisting Construction Materials					
1.4	High / Low Ventilators					
1.5	Door Sill					
1.6	Vapour-escape Pipe (Vent Pipe)					
<b>2.</b>	<b>Electrical Installation and Fittings</b>					
2.1	Lighting Fittings					Note 1
2.2	Electrical Wiring					Note 1
2.3	Switchgear					Note 1
2.4	Electro-thermal Link/ Fire Damper			Note 2		
2.5	Mechanical Ventilation System					Note 3
2.6	Work Completion Certificate (Form WR1)					
2.7	Others:					
<b>3.</b>	<b>Fire Service Installations or Equipment</b>					
3.1	Fire Extinguisher					
3.2	Fixed Sprayer					
3.3	Fixed FSI					
3.4	Sand Buckets					
3.5	Fire Detection System					
<b>4.</b>	<b>Signs (Including Notices)</b>					
4.1	"NO SMOKING 不准吸煙" Notice					
4.2	"NO NAKED FLAME 不准明火" Notice					
4.3	"DANGEROUS GOODS 危險品" Notice					
4.4	Mark to Reflect UN no. / HK no. and PSN in Chinese and English of the DG Contained in Tank (if any)					
4.5	Pictorial Plate(s) to Reflect the Class(es) and Subsidiary Hazard(s)					
4.6	Notice Required at External Wall of Approaching Lobby (if any)					
<b>5.</b>	<b>Others</b>					
5.1	Confirmation Letter from Ultimate Licensee / User					
5.2	Copy of Business Registration Certificate					
5.3	Operation Manual as Required in FSR					
5.4	Level Sensor			Note 4		
5.5	Dispensing Facilities					Note 1
5.6	Manifolds and Control Panels for Piped Gas Installation					Note 1
5.7	Certificate of Piped Gas Installation					
5.8	Survey Report for Storage Tank					

- ◆ Requirements for **New Application** –
  1. General (Layout and Design)
  2. Electrical Installation and Fittings
  3. Fire Service Installations or Equipment
  4. Signs (Including Notices)
  5. Others



# Report of Compliance (FSR)

	Description	Completed (Y/N)	Supporting Documentation Required			Remarks
			Catalogues	Approval Letters	FS 251	
<b>1.</b>	<b>General (Layout and Design)</b>					
1.1	Layout Identical to Approved Plans					
1.2	Fire Resisting Door					
1.3	Fire Resisting Construction Materials					
1.4	High / Low Ventilators					
1.5	Door Sill					
1.6	Vapour-escape Pipe (Vent Pipe)					
<b>2.</b>	<b>Electrical Installation and Fittings</b>					
2.1	Lighting Fittings					Note 1
2.2	Electrical Wiring					Note 1
2.3	Switchgear					Note 1
2.4	Electro-thermal Link/ Fire Damper			Note 2		
2.5	Mechanical Ventilation System					Note 3
2.6	Work Completion Certificate (Form WR1)					
2.7	Others:					
<b>3.</b>	<b>Fire Service Installations or Equipment</b>					
3.1	Fire Extinguisher					
3.2	Fixed Sprayer					
3.3	Fixed FSI					
3.4	Sand Buckets					
3.5	Fire Detection System					
<b>4.</b>	<b>Signs (Including Notices)</b>					
4.1	"NO SMOKING 不准吸煙" Notice					
4.2	"NO NAKED FLAME 不准明火" Notice					
4.3	"DANGEROUS GOODS 危險品" Notice					
4.4	Mark to Reflect UN no. / HK no. and PSN in Chinese and English of the DG Contained in Tank (if any)					
4.5	Pictorial Plate(s) to Reflect the Class(es) and Subsidiary Hazard(s)					
4.6	Notice Required at External Wall of Approaching Lobby (if any)					
<b>5.</b>	<b>Others</b>					
5.1	Confirmation Letter from Ultimate Licensee / User					
5.2	Copy of Business Registration Certificate					
5.3	Operation Manual as Required in FSR					
5.4	Level Sensor			Note 4		
5.5	Dispensing Facilities					Note 1
5.6	Manifolds and Control Panels for Piped Gas Installation					Note 1
5.7	Certificate of Piped Gas Installation					
5.8	Survey Report for Storage Tank					

## ◆ Requirements for New Application –

### 1. General (Layout and Design)

<b>1.</b>	<b>General (Layout and Design)</b>
1.1	Layout Identical to Approved Plans
1.2	Fire Resisting Door
1.3	Fire Resisting Construction Materials
1.4	High / Low Ventilators
1.5	Door Sill
1.6	Vapour-escape Pipe (Vent Pipe)



# Report of Compliance (FSR)

	Description	Completed (Y/N)	Supporting Documentation Required			
			Catalogues	Approval Letters	FS 251	Remarks
<b>1.</b>	<b>General (Layout and Design)</b>					
1.1	Layout Identical to Approved Plans					
1.2	Fire Resisting Door					
1.3	Fire Resisting Construction Materials					
1.4	High / Low Ventilators					
1.5	Door Sill					
1.6	Vapour-escape Pipe (Vent Pipe)					
<b>2.</b>	<b>Electrical Installation and Fittings</b>					
2.1	Lighting Fittings					Note 1
2.2	Electrical Wiring					Note 1
2.3	Switchgear					Note 1
2.4	Electro-thermal Link/ Fire Damper			Note 2		
2.5	Mechanical Ventilation System					Note 3
2.6	Work Completion Certificate (Form WR1)					
2.7	Others:					
<b>3.</b>	<b>Fire Service Installations or Equipment</b>					
3.1	Fire Extinguisher					
3.2	Fixed Sprayer					
3.3	Fixed FSI					
3.4	Sand Buckets					
3.5	Fire Detection System					
<b>4.</b>	<b>Signs (Including Notices)</b>					
4.1	"NO SMOKING 不准吸烟" Notice					
4.2	"NO NAKED FLAME 不准明火" Notice					
4.3	"DANGEROUS GOODS 危险品" Notice					
4.4	Mark to Reflect UN no. / HK no. and PSN in Chinese and English of the DG Contained in Tank (if any)					
4.5	Pictorial Plate(s) to Reflect the Class(es) and Subsidiary Hazard(s)					
4.6	Notice Required at External Wall of Approaching Lobby (if any)					
<b>5.</b>	<b>Others</b>					
5.1	Confirmation Letter from Ultimate Licensee / User					
5.2	Copy of Business Registration Certificate					
5.3	Operation Manual as Required in FSR					
5.4	Level Sensor			Note 4		
5.5	Dispensing Facilities					Note 1
5.6	Manifolds and Control Panels for Piped Gas Installation					Note 1
5.7	Certificate of Piped Gas Installation					
5.8	Survey Report for Storage Tank					

- ◆ Requirements for **New Application** –
- 2. Electrical Installation and Fittings

<b>2.</b>	<b>Electrical Installation and Fittings</b>
<b>2.1</b>	Lighting Fittings
<b>2.2</b>	Electrical Wiring
<b>2.3</b>	Switchgear
<b>2.4</b>	Electro-thermal Link/ Fire Damper
<b>2.5</b>	Mechanical Ventilation System
<b>2.6</b>	Work Completion Certificate (Form WR1)



# Report of Compliance (FSR)

	Description	Completed (Y/N)	Supporting Documentation Required			Remarks
			Catalogues	Approval Letters	FS 251	
<b>1.</b>	<b>General (Layout and Design)</b>					
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1.2	Fire Resisting Door					
1.3	Fire Resisting Construction Materials					
1.4	High / Low Ventilators					
1.5	Door Sill					
1.6	Vapour-escape Pipe (Vent Pipe)					
<b>2.</b>	<b>Electrical Installation and Fittings</b>					
2.1	Lighting Fittings					Note 1
2.2	Electrical Wiring					Note 1
2.3	Switchgear					Note 1
2.4	Electro-thermal Link/ Fire Damper			Note 2		
2.5	Mechanical Ventilation System					Note 3
2.6	Work Completion Certificate (Form WR1)					
2.7	Others:					
<b>3.</b>	<b>Fire Service Installations or Equipment</b>					
3.1	Fire Extinguisher					
3.2	Fixed Sprayer					
3.3	Fixed FSI					
3.4	Sand Buckets					
3.5	Fire Detection System					
<b>4.</b>	<b>Signs (Including Notices)</b>					
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4.5	Pictorial Plate(s) to Reflect the Class(es) and Subsidiary Hazard(s)					
4.6	Notice Required at External Wall of Approaching Lobby (if any)					
<b>5.</b>	<b>Others</b>					
5.1	Confirmation Letter from Ultimate Licensee / User					
5.2	Copy of Business Registration Certificate					
5.3	Operation Manual as Required in FSR					
5.4	Level Sensor			Note 4		
5.5	Dispensing Facilities					Note 1
5.6	Manifolds and Control Panels for Piped Gas Installation					Note 1
5.7	Certificate of Piped Gas Installation					
5.8	Survey Report for Storage Tank					

- ◆ Requirements for **New Application** –
- 3. Fire Service Installations or Equipment

<b>3.</b>	<b>Fire Service Installations or Equipment</b>
<b>3.1</b>	Fire Extinguisher
<b>3.2</b>	Fixed Sprayer
<b>3.3</b>	Fixed FSI
<b>3.4</b>	Sand Buckets
<b>3.5</b>	Fire Detection System



# Report of Compliance (FSR)

	Description	Completed (Y/N)	Supporting Documentation Required			
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2.1	Lighting Fittings					Note 1
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4.4	Mark to Reflect UN no. / HK no. and PSN in Chinese and English of the DG Contained in Tank (if any)					
4.5	Pictorial Plate(s) to Reflect the Class(es) and Subsidiary Hazard(s)					
4.6	Notice Required at External Wall of Approaching Lobby (if any)					
<b>5.</b>	<b>Others</b>					
5.1	Confirmation Letter from Ultimate Licensee / User					
5.2	Copy of Business Registration Certificate					
5.3	Operation Manual as Required in FSR					
5.4	Level Sensor			Note 4		
5.5	Dispensing Facilities					Note 1
5.6	Manifolds and Control Panels for Piped Gas Installation					Note 1
5.7	Certificate of Piped Gas Installation					
5.8	Survey Report for Storage Tank					

## ◆ Requirements for New Application – 4. Signs (Including Notices)

4.	Signs (Including Notices)
4.1	"NO SMOKING 不准吸煙" Notice
4.2	"NO NAKED FLAME 不准明火" Notice
4.3	"DANGEROUS GOODS 危險品" Notice
4.4	Mark to Reflect UN no. / HK no. and PSN in Chinese and English of the DG Contained in Tank (if any)
4.5	Pictorial Plate(s) to Reflect the Class(es) and Subsidiary Hazard(s)
4.6	Notice Required at External Wall of Approaching Lobby (if any)





# Report of Compliance (FSR)

	Description	Completed (Y/N)	Supporting Documentation Required			
			Catalogues	Approval Letters	FS 251	Remarks
<b>1.</b>	<b>General (Layout and Design)</b>					
1.1	Layout Identical to Approved Plans					
1.2	Fire Resisting Door					
1.3	Fire Resisting Construction Materials					
1.4	High / Low Ventilators					
1.5	Door Sill					
1.6	Vapour-escape Pipe (Vent Pipe)					
<b>2.</b>	<b>Electrical Installation and Fittings</b>					
2.1	Lighting Fittings					Note 1
2.2	Electrical Wiring					Note 1
2.3	Switchgear					Note 1
2.4	Electro-thermal Link/ Fire Damper			Note 2		
2.5	Mechanical Ventilation System					Note 3
2.6	Work Completion Certificate (Form WR1)					
2.7	Others:					
<b>3.</b>	<b>Fire Service Installations or Equipment</b>					
3.1	Fire Extinguisher					
3.2	Fixed Sprayer					
3.3	Fixed FSI					
3.4	Sand Buckets					
3.5	Fire Detection System					
<b>4.</b>	<b>Signs (Including Notices)</b>					
4.1	"NO SMOKING 不准吸煙" Notice					
4.2	"NO NAKED FLAME 不准明火" Notice					
4.3	"DANGEROUS GOODS 危險品" Notice					
4.4	Mark to Reflect UN no. / HK no. and PSN in Chinese and English of the DG Contained in Tank (if any)					
4.5	Pictorial Plate(s) to Reflect the Class(es) and Subsidiary Hazard(s)					
4.6	Notice Required at External Wall of Approaching Lobby (if any)					
<b>5.</b>	<b>Others</b>					
5.1	Confirmation Letter from Ultimate Licensee / User					
5.2	Copy of Business Registration Certificate					
5.3	Operation Manual as Required in FSR					
5.4	Level Sensor			Note 4		
5.5	Dispensing Facilities					Note 1
5.6	Manifolds and Control Panels for Piped Gas Installation					Note 1
5.7	Certificate of Piped Gas Installation					
5.8	Survey Report for Storage Tank					

## ◆ Requirements for New Application – 5. Others

5.	Others
5.1	Confirmation Letter from Ultimate Licensee / User
5.2	Copy of Business Registration Certificate
5.3	Operation Manual as Required in FSR
5.4	Level Sensor
5.5	Dispensing Facilities
5.6	Manifolds and Control Panels for Piped Gas Installation
5.7	Certificate of Piped Gas Installation
5.8	Survey Report for Storage Tank



# Report of Compliance (Addendum)

	Description	Completed (Y/N)	Supporting Documentation Required			
			Catalogues	Approval Letters	FS 251	Remarks
<b>1.</b>	<b>General (Layout and Design)</b>					
1.1	Layout Identical to Approved Plans					
1.2	Fire Resisting Door					
1.3	Fire Resisting Construction Materials					
1.4	High / Low Ventilators					
1.5	Door Sill					
1.6	Vapour-escape Pipe (Vent Pipe)					
<b>2.</b>	<b>Electrical Installation and Fittings</b>					
2.1	Lighting Fittings					Note 1
2.2	Electrical Wiring					Note 1
2.3	Switchgear					Note 1
2.4	Electro-thermal Link/ Fire Damper			Note 2		
2.5	Mechanical Ventilation System					Note 3
2.6	Work Completion Certificate (Form WR1)					
2.7	Others:					
<b>3.</b>	<b>Fire Service Installations or Equipment</b>					
3.1	Fire Extinguisher					
3.2	Fixed Sprayer					
3.3	Fixed FSI					
3.4	Sand Buckets					
3.5	Fire Detection System					
<b>4.</b>	<b>Signs (Including Notices)</b>					
4.1	"NO SMOKING 不准吸煙" Notice					
4.2	"NO NAKED FLAME 不准明火" Notice					
4.3	"DANGEROUS GOODS 危險品" Notice					
4.4	Mark to Reflect UN no. / HK no. and PSN in Chinese and English of the DG Contained in Tank (if any)					
4.5	Pictorial Plate(s) to Reflect the Class(es) and Subsidiary Hazard(s)					
4.6	Notice Required at External Wall of Approaching Lobby (if any)					
<b>5.</b>	<b>Others</b>					
5.1	Confirmation Letter from Ultimate Licensee / User					
5.2	Copy of Business Registration Certificate					
5.3	Operation Manual as Required in FSR					
5.4	Level Sensor			Note 4		
5.5	Dispensing Facilities					Note 1
5.6	Manifolds and Control Panels for Piped Gas Installation					Note 1
5.7	Certificate of Piped Gas Installation					
5.8	Survey Report for Storage Tank					

## ◆ Requirements for Conversion of Licence – 4. Signs (Including Notices)

4.	Signs (Including Notices)
4.1	"NO SMOKING 不准吸煙" Notice
4.2	"NO NAKED FLAME 不准明火" Notice
4.3	"DANGEROUS GOODS 危險品" Notice
4.4	Mark to Reflect UN no. / HK no. and PSN in Chinese and English of the DG Contained in Tank (if any)
4.5	Pictorial Plate(s) to Reflect the Class(es) and Subsidiary Hazard(s)
4.6	Notice Required at External Wall of Approaching Lobby (if any)



# Report of Compliance (Addendum)

	Description	Completed (Y/N)	Supporting Documentation Required			
			Catalogues	Approval Letters	FS 251	Remarks
<b>1.</b>	<b>General (Layout and Design)</b>					
1.1	Layout Identical to Approved Plans					
1.2	Fire Resisting Door					
1.3	Fire Resisting Construction Materials					
1.4	High / Low Ventilators					
1.5	Door Sill					
1.6	Vapour-escape Pipe (Vent Pipe)					
<b>2.</b>	<b>Electrical Installation and Fittings</b>					
2.1	Lighting Fittings					Note 1
2.2	Electrical Wiring					Note 1
2.3	Switchgear					Note 1
2.4	Electro-thermal Link/ Fire Damper			Note 2		
2.5	Mechanical Ventilation System					Note 3
2.6	Work Completion Certificate (Form WR1)					
2.7	Others:					
<b>3.</b>	<b>Fire Service Installations or Equipment</b>					
3.1	Fire Extinguisher					
3.2	Fixed Sprayer					
3.3	Fixed FSI					
3.4	Sand Buckets					
3.5	Fire Detection System					
<b>4.</b>	<b>Signs (Including Notices)</b>					
4.1	"NO SMOKING 不准吸煙" Notice					
4.2	"NO NAKED FLAME 不准明火" Notice					
4.3	"DANGEROUS GOODS 危險品" Notice					
4.4	Mark to Reflect UN no. / HK no. and PSN in Chinese and English of the DG Contained in Tank (if any)					
4.5	Pictorial Plate(s) to Reflect the Class(es) and Subsidiary Hazard(s)					
4.6	Notice Required at External Wall of Approaching Lobby (if any)					
<b>5.</b>	<b>Others</b>					
5.1	Confirmation Letter from Ultimate Licensee / User					
5.2	Copy of Business Registration Certificate					
5.3	Operation Manual as Required in FSR					
5.4	Level Sensor			Note 4		
5.5	Dispensing Facilities					Note 1
5.6	Manifolds and Control Panels for Piped Gas Installation					Note 1
5.7	Certificate of Piped Gas Installation					
5.8	Survey Report for Storage Tank					

## ◆ Requirements for Conversion of Licence – 5. Others

<b>5.</b>	<b>Others</b>
<b>5.1</b>	Confirmation Letter from Ultimate Licensee / User
<b>5.2</b>	Copy of Business Registration Certificate
<b>5.3</b>	Operation Manual as Required in FSR



# Common Mistakes of Compliance Inspection (FSR)




## Compliance Inspection by Ventilating Systems Group

- ◆ Mechanical Ventilating System
- ◆ Electrical Installation



FS-224e (Rev. 09/2023)

消防處  
牌照及審批總區  
消防工程合規課  
通風系統組  
香港灣仔告士打道五號  
稅務大樓三十五樓



**FIRE SERVICES DEPARTMENT  
LICENSING & CERTIFICATION COMMAND  
Fire Protection Engineering Compliance Division  
Ventilating Systems Group**  
35/F, Revenue Tower,  
5 Gloucester Road, Wan Chai, Hong Kong

**By Registered Mail**

本處編號 Our Ref.: FP 33/57408 EL01  
來函編號 Your Ref.:  
圖文傳真 Fax: (852) 2382 2495  
電話 Tel. No.: (852) 2718 7567  
電郵 E-mail: [fsvs@hkfsd.gov.hk](mailto:fsvs@hkfsd.gov.hk)

22 September 2023

Dear Sir/Madam,

**LETTER OF COMPLIANCE  
FOR ELECTRICAL INSTALLATION AT**

**Licensee** : Hospital Authority

**Premises** : 1 x Class 3 DG Store

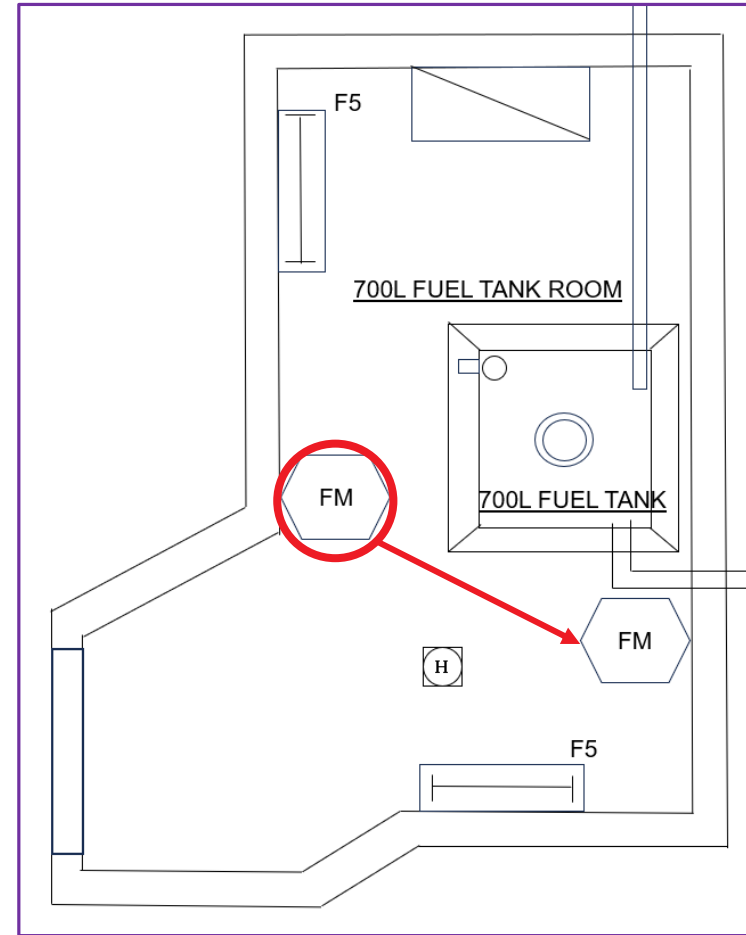
**Address** : Duchess of Kent Children's Hospital (DKCH), 12 Sandy Bay Road, Pok  
Fu Lam, Hong Kong

The explosion-proof electrical installation at the above premises was inspected on 22.9.2023 by officers of this Department. At the time of inspection, it was found that the installation was in compliance with related fire safety requirements in BS5345 / BS EN60079.

# Common Mistakes of Compliance Inspection (FSR)



Actual layout did not tally with the approved plans



# Common Mistakes of Compliance Inspection (FSR)

- ✘ Supporting documents  
(Catalog, Approval letters and FS251)
- ✘ WR1 for FSR / WR2 for renewal



# Common Mistakes of Compliance Inspection (FSR / Addendum)

**X** Previous signage have not been removed



# Common Mistakes of Compliance Inspection (FSR / Addendum)



Signage peeled off

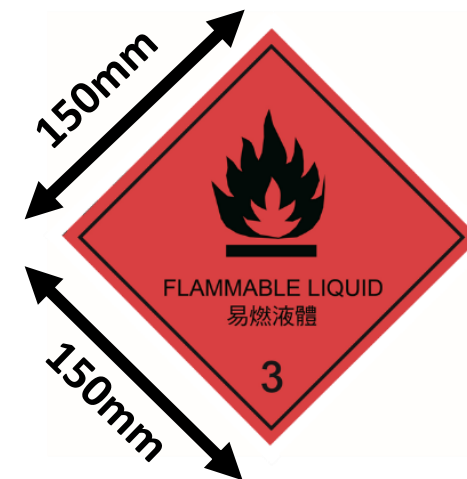




# Common Mistakes of Compliance Inspection (FSR / Addendum)



## Size of signage / Pictorial plate



Not less than  
120mm

# Common Mistakes of Compliance Inspection (FSR / Addendum)

 Incorrect pictorial plate provided



# Common Mistakes of Compliance Inspection (FSR / Addendum)

 Incorrect information shown on signage



# Common Mistakes of Compliance Inspection (FSR / Addendum)

## Operation Manual



# Consequence of failure on conversion of licence after 30 March 2024

- ◆ The amended Dangerous Goods Ordinance w.e.f. 31.3.2022
- ◆ Transitional period until **30.3.2024**



- ◆ **Offences and penalties**

**Hotline: 2417 5757**



消防處

Fire Services Department

# Introduction to the storage of Class 9A S3DG

## 貯存附表3第9A類危險品的簡介

Senior Station Officer

WONG Ho-tak

Dangerous Goods Enforcement Division

Licensing and Certification Command

Fire Services Department

# Table of Contents

- Introduction
- Notification Procedure
- Fire Safety Direction for storage of Class 9A DG
- Report of Compliance
- Issuance of Letter of Compliance
- Q&A



# Introduction

## Class 9A Dangerous Goods

- Mean DGs specified in Sch. 3 of Cap 295E.
- Unlike other Classes of S2DG, storage licences are not required
- Packing, Marking & Labeling requirements are not applicable (ss. 138 – 146 and Sch. 6 of Cap. 295G)





# Introduction

- Specified quantity for storage of Class 9A DG

Combustible Goods Class 9A DG	Specified Quantity in Non-industrial premises	Specified Quantity in Industrial premises
1. Cotton waste	100 kg	2 tonnes
2. Cotton (raw)	50 kg	2 tonnes
3. Kapok	50 kg	2 tonnes
4. Polymethylmethacrylate (raw material)	250 kg	2 tonnes
5. Polypropylene (raw material)	250 kg	2 tonnes
6. Polystyrene (raw material)	250 kg	2 tonnes
7. Polytetrafluoroethylene	250 kg	2 tonnes
8. Polythene (raw material)	250 kg	2 tonnes
9. Polyvinyl chloride (raw material)	250 kg	2 tonnes
10. Rubber (raw) (excludes any S2DG with UN number UN 1287 or UN 1345)	100 kg	2 tonnes
11. Rubber tyres for motor vehicles and aircrafts	50 tyres	500 tyres



# Storage of Class 9A Dangerous Goods

- Pursuant to s. 149 and s. 150 of Cap. 295G.
- The quantity exceeds the specified quantity  
→ **Written Notice** to D of FS **within 48 hours**
- Fails to comply  
→ **Fine at level 4**



# Notification Procedure



香港特別行政區政府  
消防處

A A A | EN 繁體

搬遷通知

消防處牌照及審批總區總部繳費處將於2023年7月17日起  
遷往九龍尖沙咀東部康莊道1號消防處總部大廈地下

繳費處 SHROFF

按聯合圖/香港編號或正確的運輸名稱搜尋危險品

影片



[www.hkfsd.gov.hk/dg](http://www.hkfsd.gov.hk/dg)



# Notification Procedure

香港特別行政區政府  
消防處

新修訂危險品條例  
2022年3月31日  
生效  
按聯合國/香港編號或正確的運輸名稱搜尋

危險

危險品的管制  
什麼是危險品?  
包裝、標記、標籤  
牌照  
壓力氣體容器  
資料與數據  
常見問題  
聯絡我們

影片  
如何使用危險品相容性轉盤  
Watch later Share  
正在播放

The screenshot shows the Fire Services Department website. A navigation menu is overlaid on the page, listing various topics. The 'Licence' icon, which depicts a truck and a document, is circled in red. The website header includes the department's name and a date for new regulations. The background features a banner about dangerous goods and a video player.



# Notification Procedure

申請危險品牌照及批准指南

設有持牌危險品倉庫的大廈

失效的危險品運送牌照

申請表

主頁 > 牌照 > 申請表

## 申請表

危險品牌照申請/續期：

申請/續期危險品牌照 (製造牌照/貯存暨使用牌照)



附表2危險品(第2/3/3A類)運送牌照的申請/續期



更改/取消危險品牌照 (製造牌照/貯存暨使用牌照)



危險品車輛驗車預約申請



# Notification Procedure

## (電子申請)

危險品牌照 / 木料倉牌照 / 第9A類危險品：

[申請/續期危險品牌照 \(製造牌照/貯存暨使用牌照\)](#)



[附表2危險品\(第2/3/3A類\)運送牌照的申請/續期](#)



[更改/取消危險品牌照 \(製造牌照/貯存暨使用牌照\)](#)



[木料倉牌照的申請/續牌表格](#)



[貯存S3第9A類危險品\(可燃燒物品\)通知書](#)



## 重要通知：

[新修訂《危險品條例》已於2022年3月31日生效 \(\(30\) in DGD 331/55 III\)](#)



## 催辦信：

[危險品牌照持牌人催辦信 \(\(31\) in DGD 331/55 III\)](#)



9A類危險品存放通知書：

[貯存S3第9A類危險品\(可燃燒物品\)通知書](#)



# Notification Procedure

## 貯存 S3 第 9A 類危險品(可燃燒物品)通知書

1) 簡介

2) 申請表

3) 簽署

4) 確認通知書

一般常見問題 



中華人民共和國香港特別行政區政府  
消防處

### 注意事項

請注意，此表格需要在以後的步驟中提供數碼證書作數碼簽署用途。

申請者或相關人士需使用 [已啟動數碼簽署功能的「智方便+」帳戶 \(了解更多\)](#) 或 [有效的個人數碼證書](#) 才可提交相關申請。

申請者或相關人士已登記「智方便+」或擁有數碼證書。\*



如貯存於某處所(《2012年危險品(船運)規例》(第295章，附屬法例F)附表2指明的認可貨櫃碼頭除外)的S3第9A類危險品分量，超過適用於該處所的指明量，則在該處所貯存該S3第9A類危險品的人，須在該分量超過後48小時內向消防處處長送交書面通知。

我想

繼續填寫表格

填寫已儲存的表格



# Notification Procedure

## ❖ 貯存 S3 第 9A 類危險品(可燃燒物品)通知書

1) 簡介

2) 申請表

3) 簽署

4) 確認通知書

[一般常見問題](#)

店舖名稱 \*

店舖負責人 \*

貯存地點 \*

地域 ...

地區 ...

街道門牌

街道名稱

屋邨期數

屋邨名稱

座/洋房/住宅 ...

樓宇名稱

樓層 樓

請選擇 ...

建築物的類型 \*

請選擇 ...

可燃物品種類 \*

請選擇 ...

貯存目的 \*

最高存額 \*





# Notification Procedure

## (電子申請)

危險品牌照 / 木料倉牌照 / 第9A類危險品：

[申請/續期危險品牌照 \(製造牌照/貯存暨使用牌照\)](#)



[附表2危險品\(第2/3/3A類\)運送牌照的申請/續期](#)



[更改/取消危險品牌照 \(製造牌照/貯存暨使用牌照\)](#)



[木料倉牌照的申請/續牌表格](#)



[貯存S3第9A類危險品\(可燃燒物品\)通知書](#)



## 重要通知：

[新修訂《危險品條例》已於2022年3月31日生效 \(\(30\) in DGD 331/55 III\)](#)



## 催辦信：

[危險品牌照持牌人催辦信 \(\(31\) in DGD 331/55 III\)](#)



## 9A類危險品存放通知書：

[貯存S3第9A類危險品\(可燃燒物品\)通知書](#)





# Documents Required

- HKIC or Business Registration Certificate (BRC)
- Certificate of Fire Service Installation and Equipment (FS 251)
- Other relevant documents (e.g. Layout plan)



# FS Direction for Storage of Class 9A DG

Fire Safety Direction will be issued to the owner or occupier of the premises to:

- (a) **Prohibit** the use of **naked light** or **flame**
- (b) Notices of “Smoking Prohibited” and “嚴禁吸煙” → **height  $\geq$  180 mm**
- (c) Other prescribe conditions:
  - (i) the nature and construction of the receptacle
  - (ii) free access way within the premises
  - (iii) adequate FSI or equipment in the premises.



# Example



# Report of Compliance

- Inform Case Officer in writing
- Certificate of Fire Service Installation and Equipment (**FS 251**)
- Upon satisfaction of compliance inspection, “**Letter of Compliance**” would be issued to the applicant
- Otherwise, the applicant will be issued with a list of **non-compliance works** (Reinspection is required)



# Issuance of Letter of Compliance

- **Annual inspection** will be conducted
- Fails to comply with a direction commits an offence and is liable on conviction to **a fine at level 4**



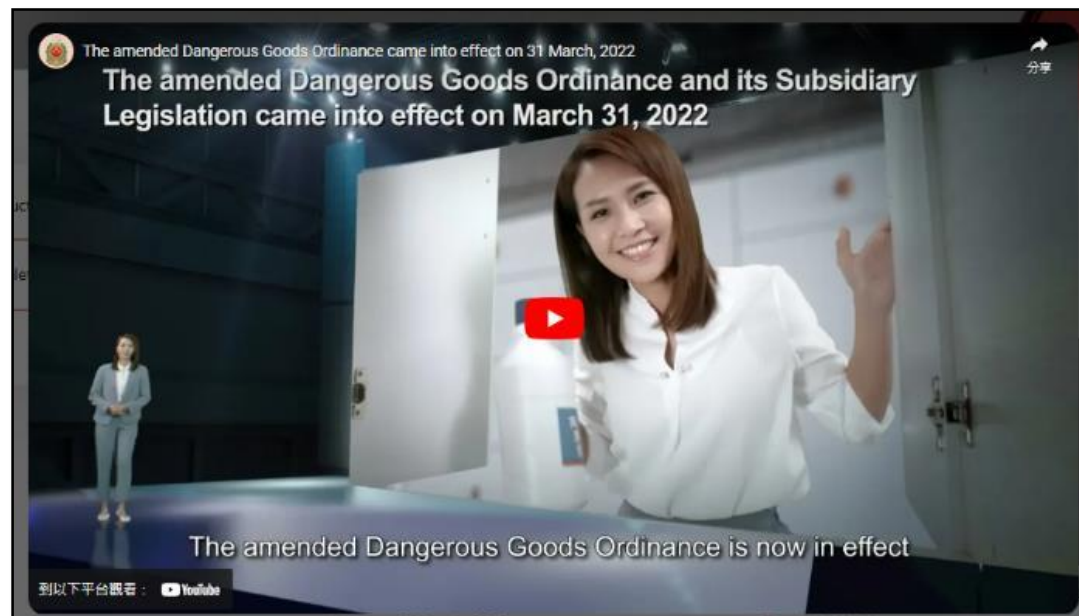
# More Information

❖ General Enquiry:

➔ [hkfsd\\_dg\\_enq@hkfsd.gov.hk](mailto:hkfsd_dg_enq@hkfsd.gov.hk)

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

➔ **DG Thematic Website** ([www.hkfsd.gov.hk/dg](http://www.hkfsd.gov.hk/dg))





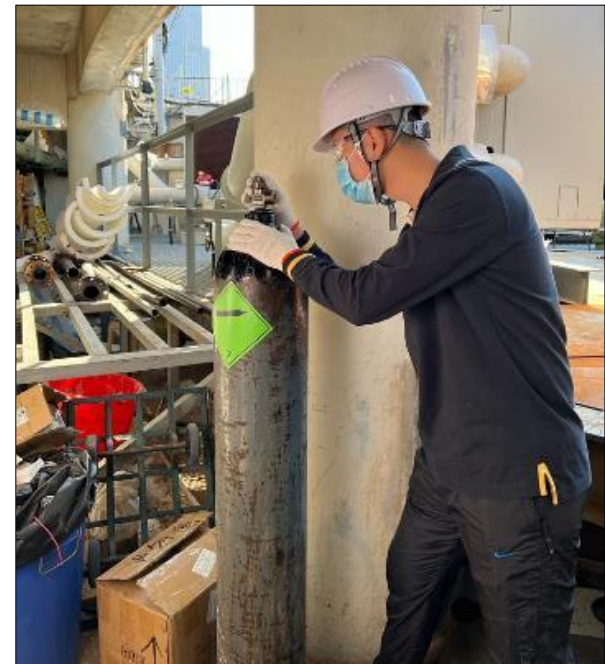
# More Information

❖ 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

END

