

# Chemical Storage Guidance Note

## Important notice



- In accordance with HSE guidelines and regulations, before this cabinet is placed into operational use, it is the responsibility of the user to ensure that : the signage to be displayed on this cabinet is appropriate to the hazards associated with those chemicals or products to be stored within.
- In addition, where more than one chemical group is to be stored, it is the user responsibility to ensure that : chemical segregation requirements are in accordance with HSE or European guidelines and recommendations. To achieve segregation or volume controls **additional cabinets may be required**.
- It is recommended that prior to operational use a full and detailed study of all Chemical MSDS is conducted to determine those hazards - with particular attention to section 10 - incompatible substances.
- A reference chemical segregation chart is detailed overleaf and whilst applicable to chemical warehousing, the segregation levels detailed within the chart are also recommended for day to day operation and storage of smaller quantities.

GHS - Hazard Pictograms and Related Hazard Classes		
 <b>Expanding Bomb</b> • Explosives • Self-reactives • Organic Peroxides	 <b>Corrosion</b> • Skin corrosion/burns • Eye damage • Corrosive to metals	 <b>Flame Over Circle</b> • Oxidizing gases • Oxidizing liquids • Oxidizing solids
 <b>Gas Cylinder</b> • Gases under pressure	 <b>Environment</b> • Aquatic toxicity	 <b>Skull &amp; Crossbones</b> • Acute toxicity (fatal or toxic)
 <b>Exclamation Mark</b> • Irritant (eye & skin) • Skin sensitizer • Acute toxicity • Narcotic effects • Respiratory tract irritant • Hazardous to ozone layer (non-mandatory)	 <b>Health Hazard</b> • Carcinogen • Mutagenicity • Reproductive toxicity • Respiratory sensitizer • Target organ toxicity • Aspiration toxicity	 <b>Flame</b> • Flammables • Pyrophorics • Self-heating • Emits flammable gas • Self-reactives • Organic peroxides

<b>Dangerous Substance Cabinets - Yellow</b>		
<b>Additional labels included for your consideration</b>		

Where the cabinets will be used for the storage of flammable liquids then the client must ensure that :

- No more than 50 litres for extremely, highly flammable and those flammable liquids with a flashpoint below the maximum ambient temperature of the workroom/working area.
- No more than 250 litres for other flammable liquids with a higher flashpoint of up to 60°C.

## Note

- Whilst these three chemical symbols represent flammable, oxidizing and explosive materials, each of which are commonly stored in these types of cabinets, they should never be stored together in any combination in the same cabinet. To achieve segregation or volume controls additional cabinets may be required, in accordance with HSE guidelines.
- Additional regulations may also be applicable, it is the user of this cabinet responsibility to ensure they are fully compliant with the law in respect to chemical, hazardous and dangerous substance storage i.e. the storage of explosive materials will also be subject to the Manufacture and Storage of Explosives Regulation 2005.

<b>Hazardous Substance Coshh Cabinets - Grey</b>				
<b>Additional labels included for your consideration</b>				

<b>Acid Cabinets - White</b>		
<b>Additional labels included for your consideration</b>		

• **To achieve segregation or volume controls additional cabinets may be required, in accordance with HSE guidelines.**  
**Note :** It is recommended good practice to store acids and alkalis separately and NOT in the same cabinet.

• **Always remember :** It is the user responsibility to ensure that the correct signage appropriate to the hazard is displayed on the storage cabinet. in addition, chemical segregation must always be in accordance with the HSE and / or European guidelines - see chart overleaf.

Chemical Segregation by Chemical Group	Class		1	2		3	4			5		6				8		
<b>Explosive</b>		1.0 Explosive		Segregate From	Segregate From	Segregate From	Segregate From	Segregate From	Segregate From	Segregate From	Segregate From	Segregate From	Segregate From	Segregate From				Segregate From
<b>Compressed gases</b>		2.1 Flammable	Segregate From		Keep Apart	Segregate From or Keep Apart	Segregate From	Segregate From	Segregate From	Segregate From	Segregate From	ISOLATE	Keep Apart				Keep Apart	
		2.2 Non Toxic Non flammable	Segregate From	Keep Apart		Keep Apart	Keep Apart	Segregation may not be necessary	Segregate From	Segregation may not be necessary	Segregation may not be necessary	Segregate From	Segregation may not be necessary				Keep Apart	
		2.3 Toxic	Segregate From	Segregate From or Keep Apart	Keep Apart		Segregate From	Keep Apart	Segregate From	Keep Apart	Segregation may not be necessary	Segregate From	Segregation may not be necessary				Keep Apart	
<b>Flammable liquids</b>			Segregate From	Segregate From	Keep Apart	Segregate From		Keep Apart	Segregate From	Segregate From	Segregate From	ISOLATE	Keep Apart				Keep Apart	
<b>Flammable solids</b>		4.1 Readily combustible	Segregate From	Segregate From	Segregation may not be necessary	Keep Apart	Keep Apart		Keep Apart	Segregate From	Segregate From	Segregate From	Keep Apart				Segregation may not be necessary	
		4.2 Spontaneously combustible	Segregate From	Segregate From	Segregate From	Segregate From	Segregate From	Keep Apart		Keep Apart	Segregate From	ISOLATE	Keep Apart				Keep Apart	
		4.3 Dangerous when wet	Segregate From	Segregate From	Segregation may not be necessary	Keep Apart	Segregate From	Segregate From	Keep Apart		Keep Apart	Segregate From	Segregation may not be necessary				Segregation may not be necessary	
<b>Oxidising substances</b>		5.1 Oxidising substance	Segregate From	Segregate From	Segregation may not be necessary	Segregation may not be necessary	Segregate From	Segregate From	Segregate From	Keep Apart		Segregate From	Keep Apart				Keep Apart	
		5.2 Organic peroxide	Segregate From	ISOLATE	Segregate From	Segregate From	ISOLATE	Segregate From	ISOLATE	Segregate From	Segregate From		Keep Apart				Keep Apart	
<b>Toxic</b>			Segregate From	Keep Apart	Segregation may not be necessary	Segregation may not be necessary	Keep Apart	Keep Apart	Keep Apart	Segregation may not be necessary	Keep Apart	Keep Apart					Segregation may not be necessary	
<b>Corrosive</b>			Segregate From	Keep Apart	Keep Apart	Keep Apart	Keep Apart	Segregation may not be necessary	Keep Apart	Segregation may not be necessary	Keep Apart	Keep Apart	Segregation may not be necessary					