

Last Updated: October 2014

Dangerous Goods Onsite

Outer warning signs & Diamonds

When storing dangerous goods onsite you will need to put a HAZCHEM Outer Warning Sign at the vehicle entrance to the premises to indicate to emergency services that there are dangerous goods onsite. A Hazchem Composite sign displaying the types of dangerous goods is required on the entrance to the building and the individual areas where the dangerous goods are kept. There is a diagram to help explain this on the second last page.



Hazchem Composite Sign (specify diamonds) 200x600mm Metal H286QM(Qld) 200x800mm Metal

(All diamonds must be a minimum of 100mm sq.)





Outer Warning Sign (required on every entry to property)

H284S - SS Vinyl 125x600mm H284M - Metal 125x600mm H284P - Poly 125x600mm



Queensland Outer Warning Sign 300x600 Meta

SIZE & MATERIAL CHART								
SIZE	METAL .55mm	POLY 1.4mm	SS LABEL	ROLL PAPER LABELS				
50x50mm (1000 Labels)				HXSR				
100X100mm (1000 Labels)				HSR				
100X100mm - PK 5			HSS					
250X250mm		НМР	HMS					
270X270mm	HLM	HLP	HLS					



250x250



1.4 HMS. HMP 250x250



1.5 Custom Only



2.1 HSXR 50x50 HSS, HSR HMS, HMP, 100x100 250x250



22 HSS 100x100 HMS, HMP 250x250 270x270 HLS, HLP, HLM



2.3 100x100 HMS. HMP 250x250



2.4 100x100 HMS HMP 250x250 270x270



3 HSXR 50x50 HSS, HSR 100x100 HMS, HMP 250x250 HLS, HLP, HLM 270x270



100x100 HLM 270x270



4.2 250x250



250x250



5.1 100x100 250x250 270x270



250x250 HMS, HMP Custom Only 5.2B



250x250 270x270



100x100 HMS 250x250



Custom Only



6.2 Custom Only



Custom Only



Custom Only



7.1 Custom Only





Custom Only



€ CORROSIVE 8

50x50 HSS, HSR 100x100 250x250 HLS. HLP. HLM 270x270

9

100x100 HMS. HMP 250x250 HLS, HLP, HLM



HMS, HMP 250x250 270x270



250x250 HLS 270x270



SUB RISK LABEL 270mm





03 9720 0700



🖃 info@jabac.com.au



Last Updated: October 2014

Globally Harmonised System

The Globally Harmonized System of Classification and Labeling of Chemicals or GHS is an internationally agreed-upon system, created by the United Nations. It is designed to replace the various classification and labeling standards used in different countries by using consistent criteria for classification and labeling on a global level.



Explosive

HSS 100 x 100mm

SS Vinyl (PK of 5)

GHS 21 GHS 22

Flammable

HSS 100 x 100mm

SS Vinyl (PK of 5)



Oxidizing

HSS 100 x 100mm

SS Vinyl (PK of 5)



HSS 100 x 100mm SS Vinyl (PK of 5)



GHS 25 Acute Toxicity Health Hazards HSS 100 x 100mm SS Vinyl (PK of 5)



GHS 26 HSS 100 x 100mm SS Vinyl (PK of 5) SS Vinyl (PK of 5)



Corrosive

Hazards HSS 100 x 100mm SS Vinyl (PK of 5) S 100 x 100mm



Chronic Health Environmental HSS 100 x 100mm SS Vinyl (PK of 5)

The chart below shows the Hazchem diamond and the associated GHS symbol

Type of dangerous goods	ADG Code	GHS	Type of dangerous goods	ADG Code	GHS
Flammable Gases Class 2.1			Oxidizing substances Class 5.1		, We
	FLAMMABLE GAS	(A)		OXIDIZING AGENT	Q
Non-Flammable Non-toxic Gases			Organic peroxides		
Class 2.2	NON-FLAMMABLE NON-TOXIC GAS 2		Class 5.2	ORGANIC PEROXIDE	
Toxic Gases			Toxic substances		\wedge
Class 2.3	TOXIC GAS 2		Class 6.1	TOXIC 6	
Flammable Liquids			Corrosive substances		
Class 3	FLAMMABLE LIQUID		Class 8	CORROSIVE	
Flammable solids, self-reactive substances and solid desensitized			Miscellaneous dangerous substances and articles		
Explosives Class 4.1	FLAMWABLE SQLID		Class 9	MISCELLANEOUS DANGEROUS GOODS	No equivalent
Substances liable to spontaneous combustion	N. Contraction of the contractio		Environmental hazard (ADG Code)	NV.	AV.
Class 4.2	SPONTANEOUSLY COMBUSTIBLE		Hazard to aquatic environment (GHS)	***	
Substances which in contact with wate	er				
Class 4.3	DANGEROUS WHEN WET				
	▼	▼			



03 9720 0700



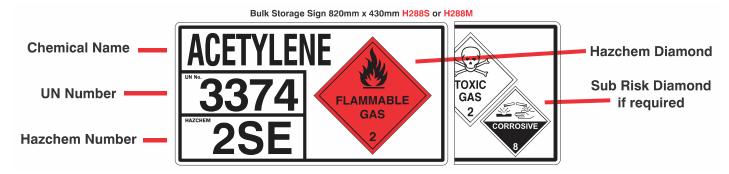




Last Updated: October 2014

Bulk Storage Signs

A bulk storage sign has all the information on it that describes the chemical and the associated risks. This sign is for the onsite storage of bulk dangerous goods. The example below shows all the information that you will need to supply for us to make the sign. This can be generally found on the product itself or from the MSDS that you should have from your supplier. A Bulk Storage Sign may require more than one Hazchem diamond. These are called Sub Risk Diamonds as shown below.



The bulk storage sign should be affixed directly to the storage unit or the structure surrounding the chemicals. This is achieved by sticking the sign in the form of a label directly to the storage unit or as a metal sign permanently attached to the structure of the storage unit. In both cases the sign needs to be clearly visible and un-obstructed and in contrast to its surroundings making it easily identified.

Diesel

When storing C1 Combustible liquids in bulk. This sign is required.

COMBUSTIBLE LIQUID

H296M 150x1500mm Metal H296S 150x1500mm SS Label

Some manufacturer's specifications could be different. There could be different options. So it is important to check and make sure that the information you have is accurate.

Examples of Possible Diesel Placards







*Also used without the UN number.

Other Common Substances



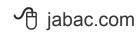






Note: Letters S, T, Y and Z which in previous years were shown in reverse printing or square brackets for some dangerous goods, are now always shown in normal print indicating that breathing apparatus should be used for all significant incidents









Last Updated: October 2014

Transportation - Tanker Placards

A Tanker Placard or (Emergency information panel) is a sign that describes the chemical that is being transported in the container or tanker that it is attached to. Below is an example of a tanker placard and the information that is required on it. All of this information is needed from you when ordering a placard to be made. This can be generally found on the product itself or from the MSDS that you should have from your supplier.



A Tanker Placard may require more than one Hazchem diamond. These are called Sub Risk Diamonds and the elevated temperature symbol is also treated as a sub risk and is laid out as follows. The main diamond must be 200mm and the sub risk must be 150mm. In the case of the elevated temp each side of the triangle must be 150mm.





H282BANNER 600x800mm

Tanker Placard with plastic pockets
allows details to be changed as required
Velcro fasteners ensures information is secure

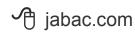
Tanker Placards should be affixed directly to the Tanker in the form of a label or as a metal sign or banner (as pictured above) permanently attached to the structure of the transport unit. In any case the sign needs to be clearly visible and un-obstructed and in contrast to its surroundings making it easily identified.

Hazchem Diamonds for transportation other than bulk.

When transporting dangerous goods there needs to be a hazchem diamond displayed. If you transport just one class of product a single diamond and holder will be sufficient at the front and back of the vehicle. If you transport various dangerous goods a flip flop Placard with up to 15 diamonds may be more appropriate.









Last Updated: October 2014

Segregation of Dangerous goods

When incompatible dangerous goods come into contact with each other, they can react adversely to cause a fire or explosion, or release toxic, flammable or corrosive vapours.

Incompatible goods must be prevented from making contact. It is important to understand which goods must be segragated to ensure they do not mix in case of spillage.

The chart below can be used as a guide to help determine if different combinations of dangerous goods are likely to be compatible and whether they need to be segregated during transport.

Segregation of dangerous goods must be in accordance with ADG Code requirements and any vehicle transporting a placard load of dangerous goods must have an emergency information holder, where all documentation and emergency information is kept.

No Go Zones

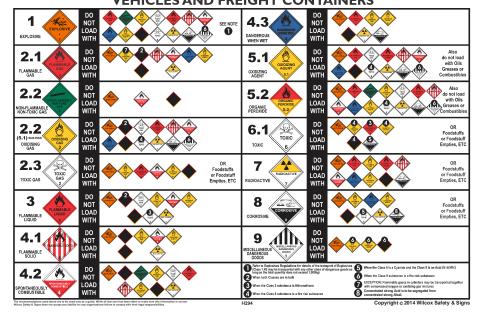
Certain types of dangerous goods may be prohibited on some roads or in tunnels in and around capital cities. Check with your local roads authority in your state.

KNOW YOUR CHEMICALS

To avoid any major explosions or accidents keep a segregation chart in the cabin of your vehicle for safe transport of chemicals

H294LAM 210x297 (A4) Small enough to keep in the vehicle. H294A3LAM 297x420 (A3) Big enough to put on the wall.

Laminated Paper SEGREGATION CHART FOR DANGEROUS GOODS IN VEHICLES AND FREIGHT CONTAINERS



Contacts for Hazchem information

If you need to more information about a Hazchem requirement one of these contacts may help. A copy of the Australian Dangerous Goods Code version 7 is available for download from the NTC.

National Transport Commission -Worksafe Victoria -Queensland Government -Safework Australia -

www.ntc.gov.au www.worksafe.vic.gov.au www.deir.qld.gov.au www.safeworkaustralia.gov.au



03 9720 0700



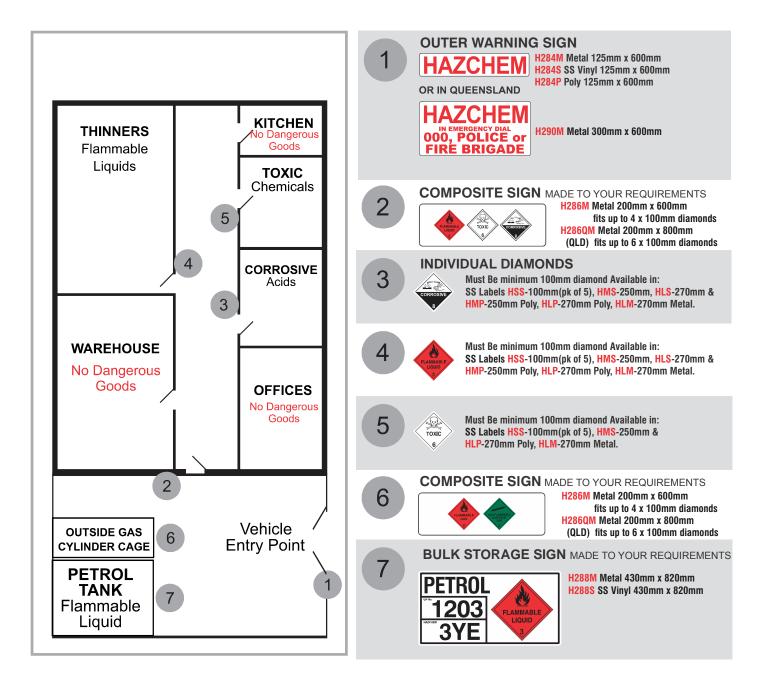
🗏 info@jabac.com.au



Last Updated: October 2014

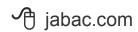
Signage Diagram for Storing Dangerous Goods Example Only

- 1. An outer warning placard must be placed adjacent to all vehicle entry points.
- 2. Signs for dangerous goods other than C1 Combustibles must be placed at the entry points to the building.
- 3. Signs for dangerous goods other than C1 Combustibles must be placed on the entrance to each room that is used for storing the dangerous goods.





03 9720 0700







Last Updated: October 2014

An Explanation of Hazchem Codes

Eg. •2YE Meaning of First character of Hazchem Code

Denotes the Extinguisher media required to control fire if accident occurs. When the first character is a;

- 1 use coarse water spray
- 2 use fine water spray
- 3 use normal foam (i.e; protein based foam that is not alcohol resistant)
- 4 use dry agent (water **MUST NOT** be allowed to come into contact with substance.)

A bullet 'e' sometimes proceeds 2 or 3 as above

- •2 **alcohol resistant foam** is the preferred firefighting medium but, if it is not available, fine water spray can be used
- •3 **alcohol resistant foam** is the preferred firefighting medium but, if it is not available, normal foam can be used

Eg. •2YE Meaning of Second character of Hazchem Code

Denote the Personal Protection Required

Where the second character is a S, T, Y or Z, normal fire fighting clothing is appropriate. i.e, self contained open circuit positive pressure compressed air breathing apparatus worn in combination with fire kit, firefighters gloves and firefighters boots.

Note: Letters S, T, Y and Z which in previous years were shown in reverse printing or square brackets for some dangerous goods, are now always shown in normal print indicating that breathing apparatus should be used for all significant incidents

Where the second character is a P, R, W, or X, liquid tight chemical protective clothing in combination with breathing apparatus should be used.

Where the second charater is a P, S, W, or Y, there is a danger that the substance can be violently or explosively reactive.

Where the second character is a W, X, Y or Z spillages or decontamination run-off should be prevented from entering drains and watercourses. Where the second character is a P, R, S or T, spillages and decontamination run-off may be washed to drains with large quantities of water. Due care however still be exercised to avoid unnecessary pollution of watercourses.

Eg. •2YE Meaning of Third character of Hazchem Code

An "E" following the first two characters indicates that there may be a public safety hazard outside the immediate area of the incident, and that the following should be considered. People should be warned to stay indoors. None essential personnel should move at least 250 metres away from incident. The possible need for subsequent evacuation should be considered.

but it should be remembered that in most cases it will be safer to remain in a building than to evacuate.





