Hazardous Chemical Register & Risk Assessment

AMP Capital

Angel Place
123 Pitt Street
Sydney NSW

September 2022

RISKTECH Compliance

Hazardous Chemicals Register & Risk Assessment

Report For	AMP Capital
Address	Angel Place 123 Pitt Street, Sydney NSW
Site Inspection By	David Bembrick Senior Consultant, RiskTech Compliance
Date of Inspection	13 September 2022
Conferred With	Cameron Holterman Facility Supervisor

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Document Revision Record

File Name	Prepared By	Reviewed By	Issue No.	Issue Date
AMP Hazchem 123 Pitt St Sydney NSW Sept22	David Bembrick Senior Consultant	Bernard Day General Manager	1	26/09/22

Contents

1. Executive Summary

Scope

RiskTech Compliance was commissioned by AMP Capital to undertake a hazardous chemicals risk assessment and prepare a hazardous chemicals register for the building located at Angel Place, 123 Pitt Street, Sydney NSW. The assessment was carried out by David Bembrick of RiskTech Compliance on 13 September 2022.

Chemical Storage Areas

Hazardous chemicals stored on site are generally related to cooling tower water treatment, fuel for diesel pumps/generators, maintenance and cleaning chemicals. These chemicals were stored in the following locations:

- Level 35 – Cooling Tower Area;
- Level 33 – Diesel Generator Room;
- Lower Ground Level, Loading Dock – Cleaners Room;
- Level B1 – Sprinkler Pump Room; &
- Level B5 – Fuel Tank Room & Secondary Cleaners Storage Room.

Key Findings & Recommendations

The table below details information pertaining to risk issues that were identified in the course of the site assessment. Recommendations made should be considered for rectification.

Item No.	Observations/Findings	Risk Level	Recommendations
2022-01	Level 35 Cooling Tower Area, Lower Ground Level Cleaners Room & Level B5 Secondary Cleaners Storage Room – Injury to personnel due to delayed response to chemical hazards due to out of date/missing Safety Data Sheets (SDS).	**Moderate**	Provide current (i.e. less than 5 years old) SDS for all Hazardous Chemicals stored on site & store at point of use.

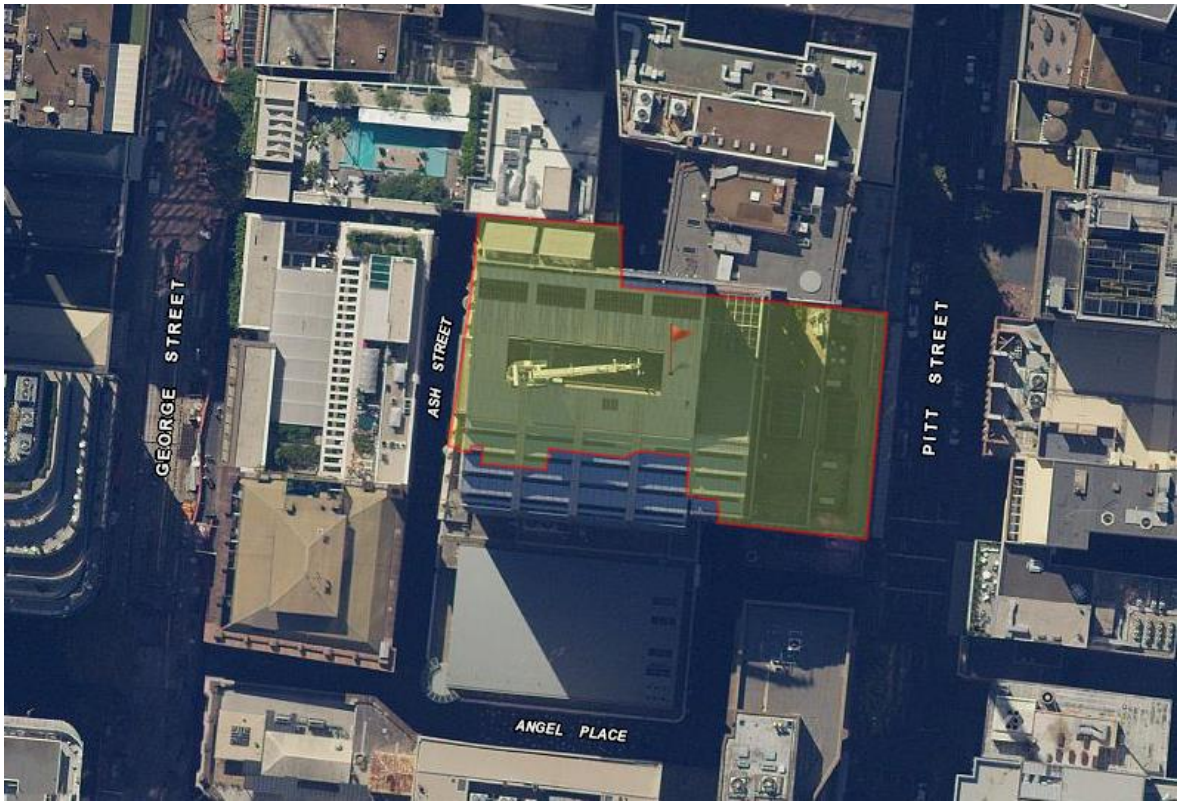
2. Introduction

RiskTech Compliance was commissioned by AMP Capital to undertake a hazardous chemicals risk assessment and prepare a hazardous chemicals register for the building located at Angel Place, 123 Pitt Street, Sydney NSW.

The assessment was carried out by David Bembrick of RiskTech Compliance on 13 September 2022. The aim of the assessment is to assess risks associated with the storage and handling of hazardous chemicals on the site managed by AMP Capital and to provide practical solutions to eliminate or minimise and control the identified risks.

2.1 Site Description

Site Address	Angel Place 123 Pitt Street, Sydney NSW
Construction Date	Constructed 1999
Site Type	Commercial
Levels	32 Levels + 5 Plant Room Levels + 5 Levels underground car parking
Description	The site consists of a 35 Level commercial building located in Sydney CBD. Plant rooms are located on Levels 3, 4, 32, 33 & 34. A total of 5 underground parking areas/levels is provided below the building with a loading dock on the Lower Ground Level.



Site Location: 123 Pitt Street, Sydney NSW Image courtesy SixMaps 2022

3. Scope/Methodology

3.1 Scope

The Hazardous Chemicals Register and Risk Assessment survey included the following:

- Inspection of representative areas of the site under the control of AMP Capital to identify Hazardous Chemicals;
- Review of the location and presence of bulk underground or above ground fuel tanks or bulk gas cylinders;
- Review relevant records of previous audits undertaken on site;
- Review Safety Data Sheets (SDS) and labels of stored Hazardous Chemicals;
- Review of hazardous chemical safe handling and storage procedures; &
- Preparation of a Hazardous Chemicals Register and Risk Assessment report.

The work was conducted during normal business hours and the areas assessed were occupied during the assessment.

3.2 Methodology

3.2.1 Risk Assessment/Action Plan – Refer Section 5

Hazards identified through the inspection process are assessed for the potential consequence(s) and in the likelihood that the hazard is realised. Existing controls in place and the current risk rating is included, as well as corresponding recommended control measures to be implemented and updated/residual risks are outlined in the table.

3.2.2 Hazardous Chemicals Register – Refer Appendix 1

Hazardous properties of each substance stored on site were collated from the chemical Safety Data Sheet (SDS) that were present/provided. Where the SDS was unavailable for a chemical, generic hazardous properties for the class of hazardous chemicals were used. For each hazardous property identified, an assessment was made to determine whether this hazardous property resulted in a hazard for the storage area.

3.2.3 Safety Data Sheets

Safety Data Sheet (SDS), previously called a Material Safety Data Sheet (MSDS) were reviewed during the assessment. These documents provide information on the properties of hazardous chemicals and how they affect health and safety in the workplace. For example an SDS includes information on:

- The identity of the chemical,
- Health and physicochemical hazards,
- Safe handling and storage procedures,
- Emergency procedures, and
- Disposal considerations.

The SDS should always be referred to when assessing risks in the workplace.

An SDS must be reviewed periodically to keep it up to date, for example when any new or significant information becomes available on the hazards of the material. Otherwise, a SDS must be reviewed and re-issued every 5 years.

3.3 Legislative Requirements

The findings of the site inspection were linked to the assessment of compliance with legislative requirements. Legislative & guidance documents used throughout the assessment included:

- *NSW Work Health and Safety (WHS) Act* and *Work Health and Safety (WHS) Regulation 2017, Chapter 7 – Hazardous Chemicals;*
- *Code of Practice – Managing Risks of Hazardous Chemicals in the Workplace (SafeWork NSW 2019);*
- *Code of Practice – Labelling of Workplace Hazardous Chemicals (SafeWork NSW 2019);*
- *AS 1940:2017 – The storage and handling of flammable and combustible liquids;*
- *AS 3780:2008 – The storage and handling of corrosive substances; and*
- *AS/NZS 3833:2007 – The storage and handling of mixed classes of dangerous goods, in packages and intermediate bulk containers.*

3.4 Limitations/Areas Not Accessed

- The assessment is limited to those physical aspects that could be observed during the assessment of representative areas of the site.
- Access was not gained to all tenancies on site.
- No detailed testing or intrusive investigations were carried out.
- The assessment does not cover defects in inaccessible places or latent defects.

We have generally used and relied upon information supplied as being regarded as authoritative and reliable. Review of reports and certification documentation is limited to those that were present on site at the time of the assessment.

4. Findings

4.1 Chemical Storage areas

Chemical storage areas identified on site include:

- Level 35 – Cooling Tower Area;
- Level 33 – Diesel Generator Room;
- Lower Ground Level, Loading Dock – Cleaners Room;
- Level B1 Sprinkler Pump Room;
- Level B5 – Fuel Tank Room;
- Level B5 – Secondary Cleaners Storage Room.

Further information on the risks identified on site are outlined on the following pages:

4.1.1 Level 35 – Cooling Tower Area

Findings

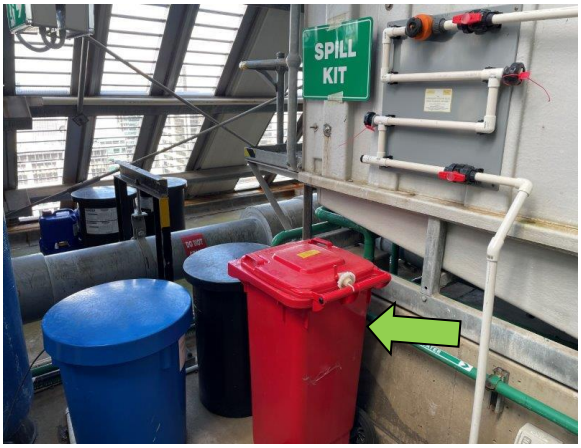
- The area was secured against unauthorised access at the time of inspection.
- Cooling tower water treatment chemicals were appropriately bunded in storage containers/drums at the time of inspection.
- Safety Data Sheets (SDS) were available and current for the majority of the water treatment chemicals sighted for the cooling towers.
- Appropriate fire services were installed in the vicinity of stored hazardous chemicals in the roof level plant room.
- Eye wash bottles were installed at the entrance to the cooling tower area and provided appropriate signage.
- Appropriate hazard warning signage was installed at the entrance and throughout the cooling tower area.
- A spill kit was available in the Cooling Tower Area.

Adverse Findings

- The Safety Data Sheets (SDS) for some of the water treatment chemicals sighted for the cooling towers were not available at the time of inspection.

Photographs

<table>
<tr><td colspan="2">   </td></tr>
<tr><td colspan="2">Cooling tower water treatment chemicals stored with appropriate bunding (secondary containment)</td></tr>
<tr><td> 
</td><td>  </td></tr>
<tr><td>Appropriate and hazard warning signage installed at the entrance to the cooling tower area</td><td>Eye wash bottles with appropriate signage installed at the entrance to the cooling tower area</td></tr>
</table>

	
Spill kit available in the Cooling Tower Area	Current SDS's were available for the cooling tower chemicals

4.1.2 Level 33 – Diesel Generator Room

Findings

- 1 x 1,000L diesel day tank, 2 x 200L diesel drums and additional chemicals were present in the Diesel Generator Room which are associated with the base building diesel generator.
- The area was secured against unauthorised access at the time of inspection.
- Hazardous chemical signage installed on the diesel day tank.
- RiskTech Compliance was advised by Building Management that the diesel day tank is double skinned.
- The diesel drums and additional chemicals were appropriately bunded in a storage container at the time of inspection.
- Appropriate fire services were installed in the vicinity of stored fuel chemicals.
- An eye wash bottles was installed in the Diesel Generator Room.
- A spill kit was available in the Diesel Generator Room.
- The fuel tank and pipe work were appropriately labelled at the time of inspection.
- The Safety Data Sheets (SDS) were available for some of the chemicals stored in the Diesel Generator Room.

Adverse Findings

- Nil

Photographs

<table>
<tr><td> 
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</td></tr>
<tr><td>Eye wash bottles available in the Diesel Generator Room</td><td>Spill kits available installed in the Diesel Generator Room</td></tr>
<tr><td> 
</td><td>  </td></tr>
<tr><td>Double skinned diesel fuel day tank. The day tank and pipework were appropriately labelled</td><td>Hazardous chemicals stored with appropriate bunding (secondary containment).</td></tr>
</table>

4.1.3 Lower Ground Level (Loading Dock) – Cleaners Store Room

Findings

- Minor amounts of cleaning chemicals were observed in the Cleaners Store Room which was appropriately locked to prevent unauthorised access.
- Hazardous warning signage is installed at the entrance to the Cleaners Store Room to warn of the hazards (e.g. chemicals) stored within the Cleaners Store Room.
- Cleaning chemicals were generally stored in appropriate secondary containment.
- Appropriate fire services were installed in the vicinity of stored hazardous chemicals in the Cleaners Store Room with the nearest fire hose reel being located in the adjacent loading dock.
- Safety Data Sheets (SDS) were available and current for the majority of the cleaning chemicals in the Cleaners Store Room.
- Eye wash bottles were available in the Cleaners Store Room.
- A spill kit was available in the Cleaners Store Room.
- A first aid kit was available in the Cleaning Manager's Office next to the Cleaners Store Room.

Adverse Findings

- Safety Data Sheets (SDS) were generally available for the cleaning chemicals in the Cleaners Store Room, however one was not.

Photographs

<table>
<tr><td> 
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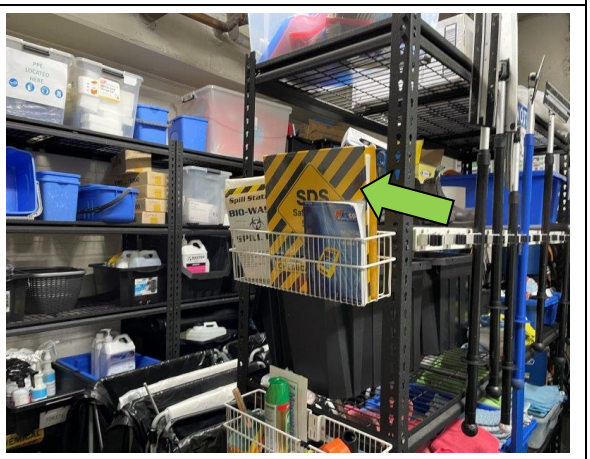
</td></tr>
<tr><td>Warning signage is installed on the entrance door to the Cleaners Store Room</td><td>Cleaning chemicals stored with appropriate bunding (secondary containment)</td></tr>
<tr><td> 
</td><td> 
</td></tr>
<tr><td>Eye wash station available in the Cleaners Store Room</td><td>Generally current SDS were available for the chemicals in the Cleaners Store Room</td></tr>
</table>

4.1.4 Level B1 – Sprinkler Pump Room

Findings

- A small amount of diesel fuel was present in the Sprinkler Pump Room which is associated with the fire sprinkler booster pump.
- The area was secured against unauthorised access at the time of inspection.
- Appropriate fire services were installed in the vicinity of stored fuel chemicals in the Sprinkler Pump Room.
- The diesel fuel was afforded appropriate bunding (secondary containment) at the time of the inspection.
- Eye wash bottles were available installed in the Sprinkler Pump Room.
- A spill kit was available in the Sprinkler Pump Room.
- A current Safety Data Sheets (SDS) was available for the diesel fuel stored in the Sprinkler Pump Room.
- Hazardous chemical warning signage was installed at the entrance to the Sprinkler Pump Room to indicate the storage of hazardous chemicals.

Adverse Findings

- Nil

Photographs

<table>
<tr><td>  </td><td> 
</td></tr>
<tr><td>Diesel Fuel stored with appropriate bunding</td><td>Eye wash bottles available in the Sprinkler Pump Room</td></tr>
<tr><td>  </td><td> 
</td></tr>
<tr><td>Spill kits available in the Sprinkler Pump Room</td><td>Hazard chemical warning signage was installed at the entrance to the Sprinkler Pump Room</td></tr>
</table>

4.1.5 Levels B5 – Fuel Tank Room

Findings

- 2 x 35,000L diesel fuel tanks are present in the Fuel Tank Room which was appropriately locked to prevent unauthorised access.
- The fuel tanks were stored in an appropriately bunded room.
- Appropriate fire services were installed in the Fuel Tank Room.
- A spill kit was available in the Fuel Tank Room.
- The diesel fuel pipe work was colour coded brown at the time of inspection.
- Appropriate signage was installed at the entrance and within the Fuel Tank Room.
- An eye wash kit was available in the Fuel Tank Room.
- Placarding requirements have been adequately addressed for the amount of diesel fuel stored on site.
- Hazardous warning signage is installed at the entrance to the Fuel Tank Room to warn of the hazards (e.g. diesel) stored within the Fuel Tank Room.
- A current Safety Data Sheets (SDS) was available for the fuel chemicals stored in the Fuel Tank Room.

Adverse Findings

- Nil

Photographs

<table>
<tr><td>  </td><td> 
</td></tr>
<tr><td>Fuel tanks in an appropriately bunded room</td><td>Spill kit available installed in the Fuel Tank Room</td></tr>
<tr><td> 
</td><td> 
</td></tr>
<tr><td>Placarding & hazardous warning signage is installed at the entrance to the Fuel Tank Room</td><td>Eye wash bottles available in the Fuel Tank Room</td></tr>
</table>

	
Current SDS for the diesel was available in the Fuel Tank Room	Placarding installed at main vehicle entrance to the site and diesel fill point

4.1.6 Levels B5 – Secondary Cleaners Storage Room

Findings

- Minor amounts of cleaning chemicals were stored the Secondary Cleaners Storage Room.
- The area was secured against unauthorised access at the time of inspection.
- The cleaning chemicals were generally stored in appropriate secondary containment.
- Appropriate fire services were installed adjacent the Secondary Cleaners Storage Room within the carpark area.
- A spill kit was available installed in the nearby Fuel Tank Room.
- An eye wash bottles were available in the nearby Fuel Tank Room.
- Hazardous chemical warning signage was displayed at the entrance to the Secondary Cleaners Storage Room.

Adverse Findings

- Safety Data Sheets (SDS) were generally available for the cleaning chemicals in the Cleaners Store Room, however some of the SDS were out of date.

Photographs

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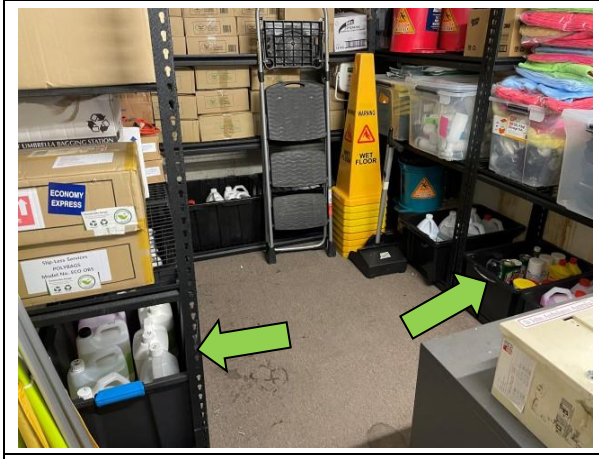
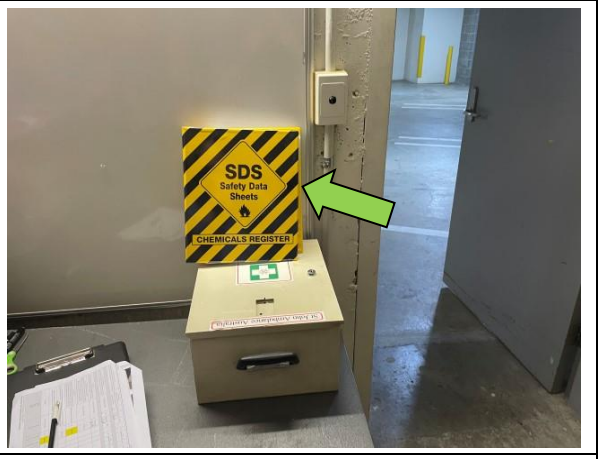
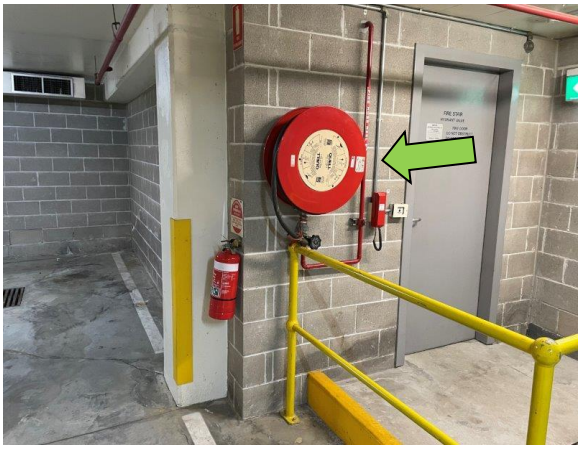
<tr><td>  </td><td>  </td></tr>
<tr><td>The majority if the chemicals stored within secondary containment</td><td>SDS folder present in the Secondary Cleaners Store Room</td></tr>
<tr><td>  </td><td>  </td></tr>
<tr><td>Chemical warning signage installed on the door to the Secondary Cleaners Storage Room</td><td>Fire services located nearby in the carpark</td></tr>
</table>

5. Risk Assessment/Action Plan

2022 - 01	***Safety Data Sheets (SDS) Requirements***
Current Risk	**Moderate**
Location	Level 35 – Cooling Tower Area Lower Ground Level – Cleaners Room Level B5 – Secondary Cleaners Storage Room
Hazard	Injury to personnel due to delayed response to chemical hazards due to out of date/missing Safety Data Sheets (SDS) and not being stored at the point of use.
Proposed Action	For all Hazardous Chemicals stored on site, obtain current (i.e. less than 5 years old) SDS from suppliers or request these be obtained where chemicals are used by contractors (e.g. water treatment, etc.) in accordance with the *NSW WHS Regulation 2017, Chapter 7, Part 7.1, Division 2, Subdivision 3, Clause 344*. Ensure that they are readily available adjacent to chemical storage areas.
Residual Risk	**Low**
Completed?	

Appendix 1 Risk Assessment Criteria

Risk Rating: The level of risk is determined using the matrix below.

Likelihood Table		
Likelihood	**Description**	**Frequency at Location**
Almost Certain	Expected to happen	Occurs once a week
Likely	May easily happen	Occurs once a month
Possible	May happen	Occurs once every year
Unlikely	May happen sometime	Occurs once every 10 years
Rare	May happen in extreme circumstances	Occurs once every 100 years

Consequence Table			
Consequence	**Health and Safety**	**Environment**	**Loss / Damage**
Low	First aid	Short term environmental impact managed on-site	$0-$5K
Minor	Medical Treatment	Medium term on-site environmental impact managed on site	$5K-$50K
Moderate	Classified Injury (LTI or restricted workcase)	Medium term on-site environmental impact needing external assistance	$50K-$500K
Major	Fatality or severe permanent disability	Very serious, long-term environment impairment of ecosystem functions	$500K-$5M

	Consequence			
Likelihood	**Low**	**Minor**	**Moderate**	**Major**
Almost Certain	High	High	Extreme	Extreme
Likely	Moderate	High	High	Extreme
Possible	Low	Moderate	High	Extreme
Unlikely	Low	Low	Moderate	High
Rare	Low	Low	Moderate	High

Appendix 2 Hazardous Chemicals Register

The following table lists chemicals that were identified on site during the inspection and the corresponding Safety Data Sheets information.

Manufacturer/ Product name	Active Chemical Ingredient	Hazardous? (Yes/No)	Dangerous Good? (Yes/No)	DG Class/ Sub-risk	Haz Chem Code	Poison Schedule	UN Number	SDS Expiry Date	Quantity On Site	Approved Use	Safe Storage Requirements
Level 35 – Cooling Tower Area											
Hydro Flow 144	5-Chloro-2-methyl-2H-isothiazol-3-one	Yes	Yes	8 (Corrosive) & 6.1 (Toxic)	2XE	-	2922	April 2026	160L	Cooling water Microbiocide & bio dispersant	Store in a cool, well-ventilated area. Keep container closed when not in use. Store away from oxidizers, strong acids, reducing agents and alkaline materials.
Hydro Flow 115	None	No		-	-	-	-	Jan 2026	115L	Cooling water treatment	Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs.
Hydro Flow 720	Sulphuric Acid	Yes	Yes	8 (Corrosive)	2P	S6	2796	April 2026	115L	pH Correction	Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials such as strong alkalis, oxidizing agents and metals.
Hydro Flow 320Q	Hydrochloric Acid, Phosphoric Acid, Sodium Tolytriazole	Yes	Yes	8 (Corrosive)	2X	S5	1760	Dec 2025	70L	Cooling water corrosion inhibitor	Store in a cool, well-ventilated area. Keep container closed when not in use. Store away from incompatible materials including strong alkalis, oxidizing agents and food stuffs.
Hydro Flow 320S	Zinc chloride	Yes	Yes	8 (Corrosive)	2X	S6	1760	March 2026	45L	Corrosion inhibitor	Store in a cool, well-ventilated area. Keep container closed when not in use. Store away from incompatible materials including strong alkalis, oxidizing agents and foodstuffs.
Hydro Flow 125	1-Bromo-3-chloro-5,-5-dimethylhydantoin	Yes	Yes	5.1 (Oxidising Agent) & 8 (Corrosive)	1W	S6	3085	March 2026	30kg	Cooling water biocide treatment	Store in a cool, dry place, isolated from all organic materials. Product is a strong oxidizer and is corrosive. Store away from incompatible materials including oxidizing agents, reducing agents, combustible materials and foodstuffs.

Manufacturer/ Product name	Active Chemical Ingredient	Hazardous? (Yes/No)	Dangerous Good? (Yes/No)	DG Class/ Sub-risk	Haz Chem Code	Poison Schedule	UN Number	SDS Expiry Date	Quantity On Site	Approved Use	Safe Storage Requirements
Redox BCDMH 20G Tablets	1-Bromo-3-chloro-5,5-dimethylhydantoin	Yes	Yes	8 (Corrosive)	1W	6	3085	**No SDS**	50kg	Water treatment disinfectant	Store in a cool, well-ventilated area. Keep container closed when not in use. Store away from incompatible materials including strong alkalis, oxidizing agents and food stuffs. No smoking and keep away from combustible materials.
Level 33 – Diesel Generator Room											
Exxon Mobil Diesel	Diesel	Yes	Yes	9 (Combustible C1)	3Z	-	3082	March 2023	1,400L	Diesel engine fuel (1 day tank - fuel supply for Diesel Generators & 2x drums)	Keep in a cool, well-ventilated area. Store and use only in equipment/containers designed for use with this product.
Fleetguard Platinum PG Plus Engine Coolant	Propylene Glycol	No	No	-	-	-	-	March 2023	208L	Heavy duty coolant	Store in a cool, dry, well ventilated area, away from incompatible materials & foodstuffs.
Mobile Delvac mx 15W-40	Zinc dithiophosphate	No	No	-	-	-	-	April 2025	20L	Engine oil	The container choice, for example storage vessel, may effect static accumulation and dissipation. Do not store in open or unlabelled containers.
Shell HD Antifreeze / Coolant Concentrate	Ethanediol	No	No	-	-	-	-	August 2023	20L	Antifreeze and coolant	Store in a cool, dry, well ventilated area, away from incompatible materials.
Valvoline Coolant Concentrate	Ethanediol	No	No	-	-	-	-	March 2023	20L	Coolant and antifreeze	Store in a cool, dry, well ventilated area, away from incompatible materials.
Ingersoll Rand All Season Select Synthetic Lubricant	Unknown	No	No	-	-	-	-	May 2023	5L	Lubricant	Keep containers dry and tightly closed to avoid moisture absorption and contamination.

Manufacturer/ Product name	Active Chemical Ingredient	Hazardous? (Yes/No)	Dangerous Good? (Yes/No)	DG Class/ Sub-risk	Haz Chem Code	Poison Schedule	UN Number	SDS Expiry Date	Quantity On Site	Approved Use	Safe Storage Requirements
Lower Ground Level (Loading Dock) – Cleaners Store Room											
Clean Plus Chemicals G2 Multi Purpose Spray & Wipe	Methylated Spirits, Triethanolamine, Dipropylene Glycol Methyl Ether	No	No	-	-	-	-	August 2023	15L	Cleaning agent	Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Ensure containers are adequately labelled and tightly closed when not in use.
Clean Plus Chemicals G6 HD Window Cleaner	Ethanol, Ethylene Glycol Monobutyl Ether	No	No	-	-	-	-	Aug 2023	15L	Cleaner for windows, mirrors, table tops	Store in cool, dry, well ventilated area, removed from acids, combustible materials and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills.
Whiteley Viraclean	Ethanol	No	No	-	-	-	-	April 2025	5L	Disinfectant & Cleaner	Store in a cool, dry, well ventilated area. Keep container tightly sealed. Do not store in direct sunlight.
Master Toilet Bowl Cleaner	Phosphoric Acid	Yes	Yes	8 (Corrosive)	2X	S5	1760	**No SDS**	5L	A fast acting bowl and urinal cleaner.	Store in a cool, dry, well ventilated area away from incompatible materials.
Master Domestoz	Non-Haz Ingredients Sodium Hyperchlorite (<5%)	No	No	-	-	S5	-	August 2026	5L	Toilet Cleaner	Store in a cool, dry, well-ventilated area removed from incompatible materials.
Clean Plus G3 Washroom	Lactic acids, surfactants	Yes	No	-	-	-	-	August 2023	5L	Mild acid based surfactant for showers, toilet bowl and wash room cleaning with mildewcide properties	Store in a cool, dry, well ventilated area, removed from moisture, incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.
Master Neutroclean	C12 – C15 alcohols, ethoxylated; Coconut diethanolamine	No	-	-	-	-	-	August 2026	5L	All purpose detergent	Store product in original container.
Master Stainless Steel Polish	Non-Hazardous Ingredients	No	-	-	-	S5	-	August 2026	3L	Stainless Steel Polish	Store removed from oxidising agents and direct heat sources.

Manufacturer/ Product name	Active Chemical Ingredient	Hazardous? (Yes/No)	Dangerous Good? (Yes/No)	DG Class/ Sub-risk	Haz Chem Code	Poison Schedule	UN Number	SDS Expiry Date	Quantity On Site	Approved Use	Safe Storage Requirements
Clean Plus Chemicals G4 Air Freshener - Disinfectant	Alkyl Dimethyl Benzyl, Ammonia Chloride	No	No	-	-	-	-	August 2023	3L	Disinfectant. Air Freshener. General purpose cleaner	Store in cool, dry, well ventilated area, removed from acids, combustible materials and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills.
Clean Plus Chemicals No More Mould	Sodium Hypochlorite, Sodium Hydroxide, Sodium Metasilicate Petahydrate	Yes	Yes	8 (Corrosive)	2X	S6	1791	January 2026	1.5L	Chlorinated detergent	Store in a cool, dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage, sealed when not in use, vented and stored upright. Check regularly for leaks or spills. Large storage areas should have appropriate ventilation systems.
Level B1 – Sprinkler Pump Room											
Exxon Mobil Diesel	Diesel	Yes	Yes	9 (Combustible C1)	3Z	-	3082	March 2023	25L	Diesel engine fuel	Keep in a cool, well-ventilated area. Store and use only in equipment/containers designed for use with this product.
Level B5 – Fuel Tank Room											
Exxon Mobil Diesel	Diesel	Yes	Yes	9 (Combustible C1)	3Z	-	3082	March 2023	70,000L	Diesel engine fuel (2x Fuel Tanks 35,000L Each - fuel supply for Diesel Generators)	Keep in a cool, well-ventilated area. Store and use only in equipment/containers designed for use with this product.

Manufacturer/ Product name	Active Chemical Ingredient	Hazardous? (Yes/No)	Dangerous Good? (Yes/No)	DG Class/ Sub-risk	Haz Chem Code	Poison Schedule	UN Number	SDS Expiry Date	Quantity On Site	Approved Use	Safe Storage Requirements
Level B5 – Secondary Cleaners Storage Room											
Whiteley Viraclean	Ethanol	No	No	-	-	-	-	April 2025	50L	Disinfectant & Cleaner	Store in a cool, dry, well ventilated area. Keep container tightly sealed. Do not store in direct sunlight.
Geal CB90 Detergent Neutral Degreaser	Surfactants	No	No	-	-	-	-	**February 2022**	35L	Stone Cleaner	Store in a cool, dry, well ventilated area away from incompatible materials.
Clean Plus Chemicals G2 Multi Purpose Spray & Wipe	Methylated Spirits, Triethanolamine, Dipropylene Glycol Methyl Ether	No	No	-	-	-	-	August 2023	25L	Cleaning agent	Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Ensure containers are adequately labelled and tightly closed when not in use.
Master Superclean Low Foam Detergent	Non-Haz Ingredients	No	No	-	-	-	-	August 2026	20L	Powerful low-foaming detergent	Store in a cool, dry, well ventilated area away from incompatible materials.
Armor Plate Floor Sealer Finish	Diethylene Glycol Monoethyl Ether, Tris(2-Butoxyethyl) Phosphate	No	No	-	-	-	-	June 2024	15L	Floor finish	Store away from incompatible materials. Keep container closed.
Master Carpet Mate	Non-Haz Ingredients	No	No	-	-	-	-	August 2026	10L	Degreaser	Store in a cool, dry, well-ventilated area removed from incompatible materials.
Master Domestoz	Non-Haz Ingredients Sodium Hyperchlorite (<5%)	No	No	-	-	S5	-	August 2026	10L	Toilet Cleaner	Store in a cool, dry, well-ventilated area removed from incompatible materials.
Master Stainless Steel Polish	Non-Hazardous Ingredients	No	-	-	-	S5	-	August 2026	5L	Stainless Steel Polish	Store removed from oxidising agents and direct heat sources.
Clean Plus Chemicals G3 Washroom Cleaner Maintainer	Lactic acid, surfactants	Yes	No	-	-	-	-	August 2023	5L	Mild acid based surfactant for showers, toilet bowl and washroom cleaning with mildewcide properties	Store in a cool, dry, well ventilated area, removed from moisture, incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.

Manufacturer/ Product name	Active Chemical Ingredient	Hazardous? (Yes/No)	Dangerous Good? (Yes/No)	DG Class/ Sub-risk	Haz Chem Code	Poison Schedule	UN Number	SDS Expiry Date	Quantity On Site	Approved Use	Safe Storage Requirements
Clean Plus Chemicals G4 Air Freshener - Disinfectant	Alkyl Dimethyl Benzyl, Ammonia Chloride	No	No	-	-	-	-	August 2023	5L	Disinfectant. Air Freshener. General purpose cleaner	Store in cool, dry, well ventilated area, removed from acids, combustible materials and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills.
Master Master Strip	Butyl glycol, Potassium hydroxide2-ethylhexyl phosphate	Yes	Yes	8 (Corrosive)	2R	S6	1719	August 2026	5L	Floor polish stripper	Store in a cool, dry, well ventilated area. Store product in original container.
Master Neutroclean	C12 – C15 alcohols, ethoxylated, Coconut diethanolamine	Yes	No	-	-	-	-	August 2026	5L	Mildly perfumed concentrated mopping/ cleaning detergent	Store in a cool, dry, well ventilated area. Store product in original container.
Master Powerclean 40	Sodium metasilicate	No	No	-	-5	S5	-	August 2026	5L	Cleaner / degreaser	Store in a cool, dry, well ventilated area away from incompatible materials.
Master Quick Clean 80	Phosphoric Acid, 2-Butoxyethanol	Yes	Yes	8 (Corrosive)	2X	S5	1760	August 2026	5L	A powerful heavy-duty acid based tile and hard surface cleaner	Store in a cool, dry, well ventilated area away from incompatible materials. Keep container tightly sealed. Check regularly for spills and leaks. Protect against physical damage.
Pascoes Long Life Self Shining Floor Polish	Non-Haz Ingredients	No	No	-	-	-	-	April 2026	2L	Domestic floor polish	Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Ensure containers are adequately labelled and tightly closed when not in use.
Jelmar CLR Calcium, Lime & Rust Remover	Lactic Acid Gluconic Acid Lauramine Oxide	Yes	No	-	-	-	-	October 2025	1L	Cleaner for Removal of Calcium, Lime, and Rust from Hard Surfaces	Store in cool, well-ventilated area, away from heat. Keep containers tightly closed. Avoid contact with combustible materials, wood, and organic materials. Store in original container in a secure area away from children and pets.
Diggers Methylated Spirits	Ethanol	Yes	Yes	3 (Flammable)	2YE	5S	1170	August 2025	1L	Solvent, Fuel, Cleaning Solvent	Store in a well-ventilated area, away from sunlight, ignition sources and other sources of heat. Do not store near strong oxidants.
3M Stainless Steel Cleaner & Polish	White mineral oil (petroleum), Isobutane, Sorbitan oleate, 2-Aminoethanol	Yes	Yes	2.1 (Flammable Gas)	2YE	-	1950	April 2025	1.8kg	Metal Polish, Cleans and polishes stainless steel, chrome, aluminium and laminated plastic surface	Protect from sunlight. Protect from sunlight. Store in a well ventilated place. Store away from heat. Store away from acids. Store away from oxidising agents.

Manufacturer/ Product name	Active Chemical Ingredient	Hazardous? (Yes/No)	Dangerous Good? (Yes/No)	DG Class/ Sub-risk	Haz Chem Code	Poison Schedule	UN Number	SDS Expiry Date	Quantity On Site	Approved Use	Safe Storage Requirements
Ajax Powder Cleanser	Sodium dodecyl benzene sulfonate, sodium aluminosilicate	Yes	No	-	2Z	-	3077	February 2024	1.5kg	Disinfectant	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.
Pascoes Long Life Carpet Cleaning Powder	Sodium bicarbonate, cellulose, non-hazardous surfactants, non-hazardous ingredients	Yes	No	-	-	-	-	April 2025	1kg	Domestic carpet cleaner	Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Ensure containers are adequately labelled and tightly closed when not in use.
Gumption	Non-Haz Ingredients	No	No	-	-	-	-	January 2023	500g	Multipurpose cleaner	Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Ensure containers are adequately labelled and tightly closed when not in use.

* SDS Expiry Date: **No SDS / Shaded yellow & bolded** – Indicates that the SDS was not available on site at the time of the inspection or that the SDS displayed was out of date.

* Unk – Chemical information unknown

Appendix 3 Information

Globally Harmonised System (GHS) of classification and labelling of chemicals

Changes to labels under the WHS Regulations

The new Work Health and Safety (WHS) Regulations introduce a new system of labelling for hazardous chemicals based on the United Nations' Globally Harmonised System (GHS) of Classification and Labelling of Chemicals. Manufacturers and importers of hazardous chemicals have 5 years from 1 January 2012 to move to the new labelling system.

Hazard communication under the GHS

The GHS sets out the way information about the hazards of chemicals and the precautions necessary to ensure safe storage, handling and disposal is explained to those using them.

The GHS uses pictograms, signal words and hazard and precautionary statements to communicate hazard information.

The GHS does not change the primary duties for businesses managing hazardous chemicals in the workplace.

What is a hazardous chemical label?

A label is a group of written, printed or graphical information elements about a hazardous chemical that is affixed to, printed on or attached to the container. Labels are also used on pipes and pipe-work used to transfer hazardous chemicals.

Labels contain information on the identity and proportions of the hazardous chemical and its constituents or ingredients. They also contain information on the hazards of the chemical, precautions to be followed during its use, handling and storage, and instructions for the safe disposal of the chemical.

You should always read and understand the information on a label before using a hazardous chemical.

Do I need to find further information?

Labels sometimes do not contain all of the information needed to safely use, handle, store or dispose of the chemical. For example, a container may be too small for all of the relevant information to fit on it. There are also other labelling systems used in Australia, for example on consumer chemicals, in which all hazard information is not included on the label.

Therefore, when using a hazardous chemical at work you should always refer to the chemical's Safety Data Sheet (SDS), as this contains more detailed information.

What information should I look for in a label?

Under the GHS, labels will contain the following elements.

Pictograms – these provide a graphical representation of the chemical's hazardous properties. These pictograms are designed to be easily recognised so you can instantly see the hazards associated with a chemical.

There are nine new pictograms, each with a specific meaning. The table on the following page shows these new pictograms and the types of hazards they represent.

GHS Hazard Pictograms

Pictogram	Hazard	Pictogram	Hazard
 **GHS01— Exploding bomb**	Explosion, blast or projection hazard	 **GHS02 – Flame**	Flammable liquids, solids and gases; including self-heating and self-igniting substances.
 **GHS03— Flame over circle**	Oxidising liquids, solids and gases, may cause or intensify fire	 **GHS04—Gas cylinder**	Gases under pressure
 **GHS05— Skull and crossbones**	Fatal or toxic if swallowed, inhaled or in contact with skin	 **GHS06— Exclamation mark**	Low level toxicity. This includes respiratory, skin, and eye irritation, skin sensitisers and chemicals harmful if swallowed, inhaled or in contact with skin
 **GHS07— Corrosion**	Corrosive chemicals, may cause severe skin and eye damage and may be corrosive to metals	 **GHS08— Health Hazard**	Chronic health hazards; this includes aspiratory and respiratory hazards, carcinogenicity, mutagenicity and reproductive toxicity
 **GHS09— Environment**	Hazardous to aquatic life and the environment		

Signal words – these provide an indication of the relative severity of the hazard. The signal words used are DANGER or WARNING. Danger indicates a higher severity of hazard.

Hazard statements – these describe the nature and severity of the chemical hazard. Examples of hazard statements are:

- Highly flammable liquid and vapour
- May cause respiratory irritation
- May cause cancer
- Contains gas under pressure
- Causes severe skin burns and eye damage

Precautionary statements – these describe some recommended measures that should be taken to minimise or eliminate risks during storage, handling, use or disposal of the hazardous chemical. The GHS uses four types of precautionary statement, covering:

- *Prevention of an incident (for example how to prevent poisoning from a toxic chemical or igniting a flammable liquid)*
- *Response in the event of an incident (for example providing first aid information if a worker is exposed or instructions to extinguish a fire)*
- *Storage instructions (for example specific conditions under which the chemical should or should not be stored)*
- *Disposal (for example referring to any applicable local/state regulations*

Examples of precautionary statements are:

- Do not breath dust/fume/gas/mist/vapours/spray
- Keep away from heat/sparks/open flames/hot surfaces – No smoking.
- Get immediate medical advice/attention
- Dispose of contents in accordance with local Regulations

Note: the WHS Regulations allow manufacturers and importers to continue to use dangerous goods class labels on containers for workplace hazardous chemicals. Dangerous goods class labels are those pictograms that are used on dangerous goods containers to meet transport requirements under the Australian Code for the transport of dangerous goods by road or rail (ADG) Code.

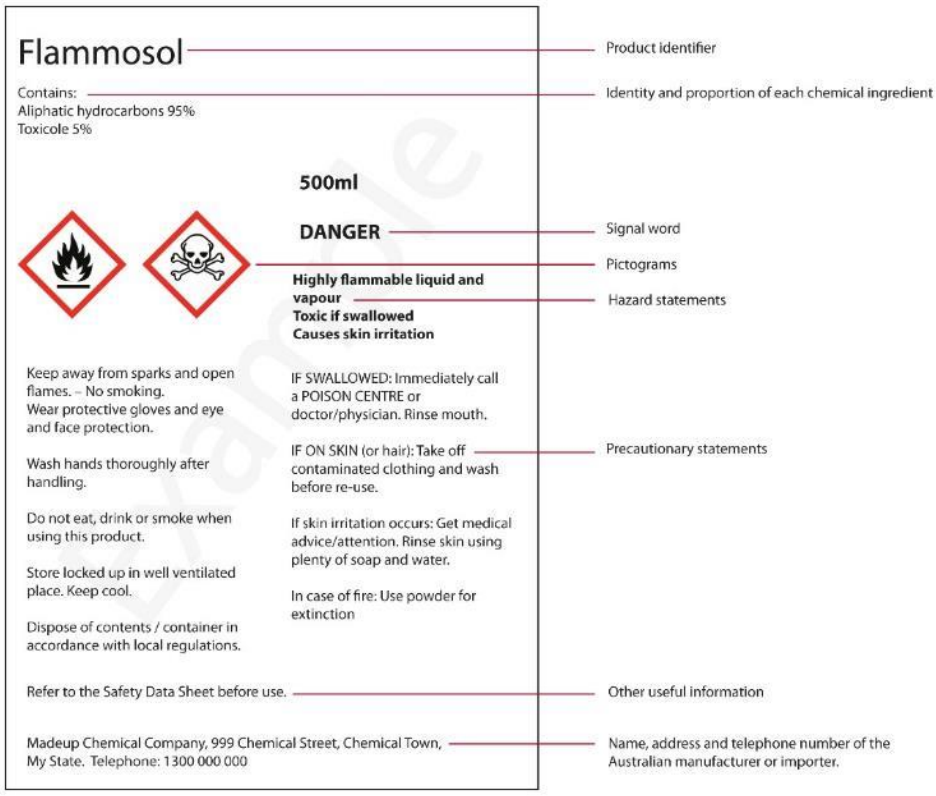
The following table compares hazard Pictograms from the GHS with the corresponding ADG Code Class Labels:

Pictogram	GHS Hazard	Dangerous Good Class Labels (Pictograms)	ADG Classes
	Explosives Self-reactive Organic peroxides		Explosive
	Flammables Self-reactive Pyrophoric Self-heating Emits flammable gas in contact with water Organic peroxides		Flammability (Liquid, Solid or Gas) Pyrophoric, Emits Flammable Gas Organic Peroxide
	Oxidisers		Oxidiser Oxidising gas
	Gases under Pressure		Non-toxic non-flammable gas, flammable gas, oxidising gas, toxic gas
	Acute toxicity		Acute toxicity Acute toxic gas
	Acute toxicity Skin irritants Eye irritants Skin sensitisers	No equivalent	
	Carcinogens Respiratory sensitisers Reproductive toxicants Target organ toxicants Germ cell mutagens	No equivalent	
	Eye corrosion Skin corrosion Corrosive to metal		Corrosive to metals

Pictogram	GHS Hazard	Dangerous Good Class Labels (Pictograms)	ADG Classes
	Aquatic toxicity. Not covered within the scope of workplace hazardous chemicals requirements		Environmental hazard
No equivalent hazard pictogram			Miscellaneous dangerous goods
Not covered within the scope of workplace hazardous chemicals requirements			Infectious
Not covered within the scope of workplace hazardous chemicals requirements			Radioactive

What does a hazardous chemical label look like?

The following is an example of a label you might see when a manufacturer moves to the new labelling system.



Identification of Hazards

Hazardous Substances

The identification of hazards associated with hazardous substances reviews how they are used as well as the health effects associated with the substances. Factors considered are the routes of exposure, work practices and the circumstances under which exposure to hazardous substances could occur.

Hazardous substances are defined in terms of their direct health effects on people whereas hazardous chemicals are defined by their physical and chemical properties. For example, a chemical that is only flammable and has no toxic, corrosive, sensitising or cancer causing properties would be a dangerous good but not necessarily a hazardous substance. There is a large overlap (about 95%) between the two groups.

Risk Evaluation

The purpose of risk evaluation is to determine those risks that need to be controlled, and assist with decisions about the order in which risks should be controlled. In evaluating the risks associated with hazardous chemicals and hazardous substances, a system can be used which considers the consequence and potential of an incident or exposure together with the likelihood that the hazard will result in an incident or adverse health effects. The system used is based on *ISO 31000 – Risk Management Principles and Guidelines*.

Risk Control

Control measures should be considered where identified hazards have a risk rating where it may be possible to further reduce risk. The following hierarchy of controls should be observed when determining control measures. The list below sets out the order of control measures to be taken if it is not reasonably practicable to eliminate a risk.

Elimination

The most effective method of risk reduction is the elimination of risk at the source. This includes eliminating either the hazardous chemical or the activity which gives rise to the risk.

Substitution

Substituting the hazardous chemical with another product, that has a lower risk associated with the storage and handling.

Reducing Quantities Stored and Handled

Where possible, the quantities of hazardous chemicals should be kept at a minimum. This includes the removal of chemicals that are no longer required on site.

Isolation

Isolation involves separating people from the substance by distance or barriers. Australian and New Zealand Standards provide guidance on appropriate separation distances for hazardous chemicals.

Engineering Controls

Engineering controls are controls which use engineering measures to reduce the risk associated with the storage and handling of hazardous chemicals (i.e. ventilation).

Administrative Controls

Administrative controls are systems of work or safe work practices that help to reduce risks associated with the storage and handling of hazardous chemicals.

Personal Protective Equipment (PPE)

The use of PPE in conjunction with other control measures may provide additional risk control. PPE should be the last resort for controlling risk and workers should be trained to fit and use any required PPE properly.