AMP Capital



Bourke Place 600 Bourke Street, Melbourne VIC

January 2022



600 Bourke Street, Melbourne VIC

Hazardous Chemicals Register & Risk Assessment

Report For	AMP Capital
Address	600 Bourke Street, Melbourne VIC
Site Inspection By	David Bembrick & Shaun Wiggins Consultants, RiskTech Compliance
Date of Inspection	12 January 2022
Conferred With	Anthony Zammit Facilities Manager, AMP Capital

Disclaimer & Statement of Confidentiality

This document has been prepared solely for the benefit of the Client for the purpose set out herein and should not be used for any other purpose than as an expression of the opinion of Jaromowo Pty Ltd (ABN 31 610 492 423), trading as RiskTech Compliance (*RTC*) and the other related matters dealt with herein.

No responsibility is accepted to any other party for any loss or damage resulting from the use by the Client of this document for any reason whatsoever including but not limited to negligence on the part of RTC or even a breach by RTC in its contractual obligation to the Client in preparing the document. This document is confidential to the Client and RTC does not intend that any other person accept or rely upon it.

The Document is based on RTC's analytical processes and the information provided to RTC by the Client and/or nominated third parties at the time of provision of information both on location and/or in written format. Such information supplied has not been independently verified by RTC. Whilst this document is accurate to the best of RTC's knowledge, information and belief, RTC cannot guarantee the completeness or accuracy of any descriptions or conclusions based on the supplied information.

The information or recommendations contained in this document are advisory only and RTC has no responsibility for the management or operation of any financial and/or risk minimisation and/or related procedures which may be implemented.

Documents may be prepared by specialists sub-contracted by RTC on an "as needed" basis to match assignments.

File Name	Prepared By	Reviewed By	Issue No.	Issue Date
AMP Hazchem 600 Bourke Street Melbourne VIC Jan22	David Bembrick Senior Consultant	Bernard Day General Manager	1	16/02/22
AMP Hazchem 600 Bourke Street Melbourne VIC Jan22 v2	David Bembrick Senior Consultant	Bernard Day General Manager	2	23/02/22

Document Revision Record

Contents

1.	Executive Summary		4
2.	Introdu	ction	5
	2.1	Site Description	5
3.	Scope,	/Methodology	6
	3.1	Scope	6
	3.2	Methodology	6
	3.3	Legislative Requirements	7
	3.4	Limitations/Areas Not Accessed	7
4. Findings		8	
	4.1	Chemical Storage areas	8
5. Risk Assessment/Action Plan		22	
6. Items Completed Since Dec 2020		23	
App	pendix 1	Risk Assessment Criteria	25
Appendix 2 Hazardous Chemicals Register		26	
Appendix 3 Information		34	

1. Executive Summary

Scope

RiskTech Compliance was commissioned by AMP Capital to undertake a hazardous chemicals risk assessment and prepare a hazardous chemical register for 600 Bourke Street, Melbourne VIC. The assessment was carried out by David Bembrick & Shaun Wiggins of RiskTech Compliance on 12 January 2022.

Chemical Storage Areas

Hazardous chemicals stored on site are generally related to cooling tower water treatment, maintenance, cleaning chemicals and fuels for plant and equipment. These chemicals were stored in the following locations:

- Level 53 Fire Pump Room;
- Level 52 Generator Room;
- Level 51 Cooling Tower Area and Chiller Plant Room;
- Level 37 Plant Room;
- Level 4 Plant Room;
- Level B1 Secondary Cleaner's Room/Bike Storage Room;
- Level B3 Cleaner's Main Storeroom and Fire Pump Room; &
- Level B4 Fuel Transfer Pump Room and beneath Car Park.

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.

Observations/Findings	Risk Level	Recommendations
Level 52 Generator Room – The fuel pipework was not all labelled.	Moderate	All containers that hold a Hazardous Chemical, including containers in which substances are decanted, must be appropriately labelled. Alternatively, appropriately dispose of unlabelled chemicals.
Level 51 – Cooling Tower Area – Injury to personnel due to delayed response to chemical hazards due to absence of 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.

600 Bourke Street, Melbourne VIC

2. Introduction

RiskTech Compliance was commissioned by AMP Capital to undertake a hazardous chemicals risk assessment and prepare a hazardous chemical register for 600 Bourke Street, Melbourne VIC.

The assessment was carried out by David Bembrick & Shaun Wiggins of RiskTech Compliance on 12 January 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	Bourke Place 600 Bourke Street, Melbourne VIC	
Construction Date	1991	
Site Type	Commercial	
Levels	53 Levels (including roof levels & basement car park levels)	
Description	The site consists of a 53 Level commercial building located on the corner of Bourke & William Streets in Melbourne's CBD. The Roof Level is located on Level 53. Undercover parking is provided in the basement of the building which is accessed via Little Bourke Street. Retail / food outlets are located on the Ground Level.	



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.

600 Bourke Street, Melbourne VIC 3.2.4 Globally Harmonised System (GHS) of classification and labelling of chemicals

The GHS is a system used to classify and communicate chemical hazards using internationally consistent terms and information on chemical labels and Safety Data Sheets. The GHS provides criteria for the classification of physical hazards (e.g. flammable liquids), health hazards (e.g. carcinogens) and environmental hazards (e.g. aquatic toxicity).

The GHS was created by the United Nations to create a single worldwide methodology for chemical classification, labelling and safety data sheets. The system ensures that users are provided with practical, reliable and easy to understand information on chemical hazards, and can take the appropriate preventive and protective measures for their health and safety. The GHS is expected to provide significant trade benefits to industry as well as improved health and safety outcomes by introducing internationally consistent assessment criteria, labels and Safety Data Sheets (SDS) for hazardous chemicals.

The GHS will update the way in which information about the hazards of chemicals and any precautions necessary to ensure safe storage, handling and disposal, is conveyed to users of chemicals. The GHS uses pictograms, signal words, and hazard and precautionary statements to communicate this information. Please note that the GHS does not change your general duties relating to the management of hazardous chemicals in the workplace.

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:

- Occupational Health and Safety Act (VIC) 2004;
- Occupational Health and Safety Regulations (VIC) 2017;
- Victorian Dangerous Goods ACT 1985;
- Victorian Dangerous Goods (Storage & Handling) Regulations 2012;
- Code of Practice for the Storage and Handling of Dangerous Goods (Worksafe VIC 2013);
- Code of Practice for Hazardous Substances (Worksafe VIC 2018);
- 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 tenanted areas 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

Hazardous chemicals stored on site are generally related to cooling tower water treatment, maintenance, cleaning chemicals and fuels for plant and equipment. These chemicals were stored in the following locations:

- Level 53 Fire Pump Room;
- Level 52 Generator Room (Stair 2);
- Level 51 Cooling Tower Area;
- Level 51 Chiller Plant Room;
- Level 37 Plant Room;
- Level 4 Plant Room;
- Ground Level Secondary Cleaners Room;
- Level B1 Secondary Cleaners Room Bike Storage Room;
- Level B3 Cleaners Main Storeroom;
- Level B3 Fire Pump Room;
- Level B4 Paint Storage;
- Level B4 Fuel Transfer Pump Room; &
- Level B4 Beneath Car Park.

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

4.1.1 Level 53 – Fire Pump Room

4.1.1.1 Findings

- The Fire Pump Room was secured against unauthorised access at the time of inspection.
- 2 above ground storage tanks containing diesel with estimated capacities of 120L
 & 40L were associated with the diesel fire pumps.
- A spill kit was located within the Fire Pump Room to assist with spills and/or leaks.
- Fire services were installed in the vicinity of the fire pumps and diesel fuel.
- Safety Data Sheet (SDS) was available for the stored diesel fuel.
- Eye wash kit/station is installed in the Fire Pump Room to assist with emergency first aid.
- 4.1.1.2 Adverse Findings
- Nil.
- 4.1.1.3 Photographs



4.1.2 Level 52 - Generator Room (Stair 2)

4.1.2.1 Findings

- There is an approximately 2,000L diesel day tank installed in the Generator Room on Level 52.
- The Generator Room was secured against unauthorised access at the time of inspection.
- The diesel was provided with appropriate secondary containment (bunding) at the time of inspection.
- Appropriate hazardous chemical signage was provided at the entrance to Generator Room.
- Fire services were installed in the vicinity of stored hazardous chemicals in the Generator Room.
- An eye wash kit / solution is provided in the Generator Room.
- A spill kit was located within the Generator Room to assist with spills and/or leaks.
- SDS was provided for the stored diesel.

4.1.2.2 Adverse Findings

Some of the fuel pipework was not labelled at the time of the inspection.

4.1.2.3 Photographs



600 Bourke Street, Melbourne VIC





An eye wash kit / solution is provided in the Generator Room Some of the fuel pipework appropriately labelled



Some of the pipework in the Generator Room was not appropriately labelled

4.1.3 Level 51 – Cooling Tower Area

4.1.3.1 Findings

- The Cooling Tower Area was secured against unauthorised access at the time of inspection.
- The cooling tower chemicals were stored within appropriate secondary containment (bunding) at the time of inspection.
- Appropriate hazardous chemical warning signage was provided at the entrance to the Cooling Tower Area.
- Appropriate fire services were installed in the vicinity of stored hazardous chemicals in the Cooling Tower Area.
- An eye wash kit was provided in the Cooling Tower Area with expiry dated August 2021.
- Spill kits were located adjacent to the Cooling Tower Area and in the Chiller Room to assist with spills and/or leaks.

4.1.3.2 Adverse Findings

The majority of Safety Data Sheets (SDS) were available and current for the stored chemicals, however there was at least one SDS missing for a stored chemical.



4.1.3.3 Photographs

4.1.3.4 Level 51 – Chiller Plant Room

4.1.3.5 Findings

- The Chiller Plant Room was secured against unauthorised access at the time of inspection.
- Appropriate fire services were installed in the vicinity of stored hazardous chemicals in the Chiller Plant Room.
- Spill kits were located within the Chiller Plant Room to assist with spills and/or leaks.
- 2 large cylinders labelled R134A were present in the Chiller Plant Room. RiskTech was advised by the facilities manager that these empty cylinders are used as a backup/emergency for the chiller units if a leak occurs and the refrigerant is required to be temporarily stored.
- Hazardous refrigerant storage warning signage was installed at the entrance to the Chiller Plant Room.
- Safety Data Sheet (SDS) was available and current for the stored refrigerant.

4.1.3.6 Adverse Findings

Nil.

4.1.3.7 Photographs



2 large empty cylinders labelled R134A

4.1.4 Level 37 – Plant Room

4.1.4.1 Findings

- There is an approximately 1,000L interchange tank installed for the diesel generators in the Plant Room on Level 37.
- The Plant Room was secured against unauthorised access at the time of inspection.
- The diesel tank was provided with appropriate secondary containment (bunding) at the time of inspection.
- Appropriate hazardous chemical warning signage was provided at the entrance to the Plant Room.
- Appropriate fire services were provided in the vicinity of stored hazardous chemicals in the Plant Room.
- A spill kit was located within the Plant Room to assist with spills or leaks.
- Safety Data Sheet (SDS) was available for the diesel.
- An emergency eye wash station/kit was installed in the Plant Room on Level 37 to assist with emergency first aid.

4.1.4.2 Adverse Findings

Nil.

4.1.4.3 Photographs





4.1.5 Level 4 – Plant Room

4.1.5.1 Findings

- The Plant Room was secured against unauthorised access at the time of inspection.
- There is an approximately 1,000L header tank installed for the diesel generators in the Generator Room on Level 4.
- The diesel tank in the Generator Room was provided appropriate secondary containment (bunding) at the time of inspection.
- Appropriate hazardous chemical warning signage was provided at the entrance to the Generator Room.
- Appropriate fire services were installed in the vicinity of stored hazardous chemicals.
- An eye wash kit / solution is provided in the Generator Room with expiry dated August 2021.
- A spill kit was located within the Generator Room to assist with spills or leaks.
- Chemicals were observed within the Radiator Room with appropriate secondary containment (bunding) at the time of inspection.
- No Safety Data Sheet (SDS) was available for the diesel.

4.1.5.2 Adverse Findings

Nil.

4.1.5.3 Photographs





600 Bourke Street, Melbourne VIC

4.1.6 Level B1 – Secondary Cleaner's Room/ Bike Storage Room

4.1.6.1 Findings

- The B1 Secondary Cleaner's Room was secured against unauthorised access at the time of inspection.
- The cleaning chemicals were provided appropriate secondary containment (bunding) at the time of inspection.
- Safety Data Sheets (SDS) were available for the cleaning chemicals.
- Appropriate fire services were installed in the vicinity of stored hazardous chemicals in the Secondary Cleaners Room.
- Hazardous Chemical warning signage was installed at the entrance to the B1 Secondary Cleaner's Room.
- A spill kit was provided within the B1 Secondary Cleaner's Room to assist with spills or leaks.
- An emergency eye wash station was provided in the B1 Secondary Cleaner's Room to assist with emergency first aid.

4.1.6.2 Adverse Findings

Nil.

4.1.6.3 Photographs



4.1.7 Level B3 – Cleaner's Main Storeroom

4.1.7.1 Findings

- The Cleaner's Main Storeroom was secured against unauthorised access at the time of inspection.
- The cleaning chemicals were provided appropriate secondary containment (bunding) at the time of inspection.
- Safety Data Sheets (SDS) were available for the cleaning chemicals.
- Appropriate fire services were installed in the vicinity of stored hazardous chemicals in the Cleaner's Main Storeroom.
- Spill kits were located within the Cleaner's Main Storeroom to assist with spills or leaks.
- A first aid kit including eye wash is located in the Cleaner's Main Storeroom.
- Chemical warning signage was provided at the entrance to the Main Cleaner's Room.

4.1.7.2 Adverse Findings

Nil.

4.1.7.3 Photographs



AppropriatesecondarycontainmentAppropriatesecondarycor(bunding) for the cleaning chemicals(bunding) for the cleaning chemicals





Emergency eye wash station provided in the Cleaner's Main Store Room First aid kit provided in the Cleaner's Main Store Room

containment





Signage at the entrances to the Cleaner's Main Store Room

4.1.8 Level B3 – Fire Pump Room

4.1.8.1 Findings

- The Fire Pump Room was secured against unauthorised access at the time of inspection.
- An above ground storage tank containing diesel with estimated capacity of 400L associated with the fire pumps was present in the Fire Pump Room. It is assumed the tank is double skinned.
- Appropriate hazardous chemical warning signage was provided at the entrance to the Fire Pump Room.
- Appropriate fire services were installed in the vicinity of stored hazardous chemicals in the Fire Pump Room.
- A spill kit was located within the Fire Pump Room to assist with spills and/or leaks.
- SDS was available for the stored diesel.
- An emergency eye wash station was provided in the Fire Pump Room to assist with emergency first aid.

4.1.8.2 Adverse Findings

Nil.

4.1.8.3 Photographs





It is assumed the diesel fuel tank associated with the diesel fuel pumps are double skinned

Spill kit available in the Fire Pump Room

600 Bourke Street, Melbourne VIC



SDS was provided for the stored diesel in the Fire Pump Room Emergency eye wash station provided in the Fire Pump Room

4.1.9 Level B4 – Fuel Transfer Pump Room

4.1.9.1 Findings

- The Fuel Transfer Pump Room was secured against unauthorised access at the time of inspection.
- Appropriate fire services were installed in the vicinity of stored hazardous chemicals in the Fuel Transfer Pump Room.
- The diesel was stored in an appropriately bunded room at the time of inspection.
- A spill kit was located within the Fuel Transfer Pump Room to assist with spills or leaks.
- Appropriate hazardous chemical warning signage was provided at the entrance to the Fuel Transfer Pump Room.
- No Safety Data Sheet (SDS) was available for the stored diesel.
- No eye wash station/kit was present in the Fuel Transfer Pump Room to assist with emergency first aid.

4.1.9.2 Adverse Findings

Nil.

4.1.9.3 Photographs



600 Bourke Street, Melbourne VIC



Diesel fuel jerry cans stored in an appropriately bunded room

4.1.10 Level B4 – Beneath Car Park

4.1.10.1 Findings

- The storage tanks were secured against unauthorised access at the time of inspection. A confined space permit and procedure has been implemented to access the fuel storage tanks. No access was provided to the fuel storage tank bund.
- The diesel was provided appropriate secondary containment. Stored in a concrete chamber beneath the car park at the time of inspection.
- Appropriate fire services were installed in the vicinity of stored hazardous chemicals in the storage tanks.
- Placarding requirements (Hazchem signage) has been appropriately addressed for the site.
- SDS was available for the stored diesel.

4.1.10.2 Adverse Findings

Nil.

4.1.10.3 Photographs



entrance on Gresham Street



600 Bourke Street, Melbourne VIC

5. Risk Assessment/Action Plan

2022 – 01	Labelling Requirements	
Current Risk	Moderate	
Location	Level 52 Generator Room	
Hazard	The chemicals in the Radiator Room on Level 4 did not have appropriately labels attached to identify the chemical. The fuel pipework in the Level 52 Generator Room was not all appropriately labelled	
Proposed Action	All containers that hold a Hazardous Chemical, including containers in which substances are decanted, must be appropriately labelled in accordance with the Victorian Dangerous Goods (Storage & Handling) Regulations 2012, Clause 15. As a minimum, labels should clearly identify the substance and provide basic health and safety information about the substance, including any relevant risk phrases and safety phrases. Alternatively, appropriately dispose of unlabelled chemicals.	
Residual Risk	Low	
Photos		
Completed?		

2022 – 02	Safety Data Sheets (SDS) Requirements		
Current Risk	Moderate		
Location	Level 51 – Cooling Tower Area		
Hazard	Injury to personnel due to delayed response to chemical hazards due to absence to 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 in accordance with the VIC OHS Regulations 2017, Clause 146. Ensure that they are readily available adjacent to chemical storage areas.		
Residual Risk	Low		
Completed?			

600 Bourke Street, Melbourne VIC

6. Items Completed Since Dec 2020

2020 – 02	Safety Data Sheets (SDS) Requirements	
Current Risk	Moderate	
Location	Level 53 – Fire Pump Room Level 52 - Generator Room Level 51 – Chiller Plant Room Level 37 – Plant Room Level 4 – Plant Room Level B3 – Fire Pump Room Level B4 – Fuel Transfer Pump Room	
Hazard	Injury to personnel due to delayed response to chemical hazards due to absence to 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 in accordance with the VIC OHS Regulations 2017, Clause 146. Ensure that they are readily available adjacent to chemical storage areas.	
Residual Risk	Low	
Completed?	Yes	

2020 - 03	Signage requirements	
Current Risk	Low	
Location	Level 51 – Chiller Plant Room Level B1 – Secondary Cleaner's Room – Bike Storage Room Level B3 – Cleaner's Main Storeroom	
Hazard	No signage to indicate the storage of hazardous chemicals was identified in the above areas.	
Proposed Action	Consider installing appropriate hazard warning signage at the entrances to the above areas.	
Residual Risk	Low	
Completed?	Yes	

2020 - 04	Spill Kit Requirements	
Current Risk	Low	
Location	Level B1 – Secondary Cleaner's Room/Bike Storage Room	
Hazard	No emergency spill kits were available in the above areas. It is noted that numerous spill kits are present in the Main Cleaner's Store.	
Proposed Action	Consider relocating the spill kits in the Main Cleaner's Store and providing a spill kit in the above areas to assist with the potential hazard of spills and leaks.	
Residual Risk	Low	
Completed?	Yes	

Hazardous Chemicals Register & Risk Assessment 600 Bourke Street, Melbourne VIC

2020 - 05	Eye Wash Station		
Current Risk	Low		
Location	Level 53 – Plant Room Level 37 – Plant Room Level B1 – Secondary Cleaner's Room – Bike Storage Room Level B3 – Cleaner's Main Storeroom Level B3 – Fire Pump Room Level B4 – Fuel Transfer Pump Room		
Hazard	No eye wash station installed in the above locations to assist with emergency first aid.		
Proposed Action	Consider installing emergency eye wash bottles and ensure the eye wash solutions are managed appropriately and are within the required expiry dates to assist in managing the risks associated with cleaning chemicals and first aid treatment.		
Residual Risk	Low		
Completed?	Yes		

600 Bourke Street, Melbourne VIC

Risk Assessment Criteria



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

Appendix 1

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 work case)	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)	DG Class/ Sub-risk	Haz Chem Code	Poison Schedule	UN Number	SDS Expiry Date	Max Quantity On Site	Approved Use	Safe Storage Requirements	
Level 53 – Fire Pump Room											
Diesel	Diesel	Yes	9 (Combustible C1)	3Z	\$5	3082	Jun 2024	160L	Diesel engine fuel (fuel supply for Sprinkler Pumps)	Keep in a cool, well-ventilated area. Store and use only in equipment/ containers designed for use with this product.	
Level 52 - Genera	tor Room (Stair 2)						•		·		
Diesel	Diesel	Yes	9 (Combustible C1)	3Z	\$5	3082	Jun 2024	2,000L	Diesel engine fuel (day tank) (fuel supply for Generators)	Keep in a cool, well-ventilated area. Store and use only in equipment/ containers designed for use with this product.	
Level 51 – Cooling	Level 51 – Cooling Tower Area										
Hydro Flow 144	5-Chloro-2-methyl-2H- isothiazol-3-one	Yes	8 (Corrosive) & 6.1 (Toxic)	2XE	-	2922	Apr 2026	210L	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.	
Hydro Flow 320	Zinc Chloride, Hydrochloric Acid, Phosphoric Acid, Sodium Tolytriazole	Yes	8 (Corrosive)	2X	-	1760	Apr 2026	195L	Cooling water corrosion inhibitor	Keep container closed when not in use. Store away from alkaline materials. Ensure adequate ventilation.	
Hydro Flow 125	1-Bromo-3-chloro-5,-5- dimethylhydantoin	Yes	5.1 (Oxidising Agent) & 8 (Corrosive)	1W	S6	3085	Mar 2026	20kg	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.	
Hydro Flow 860	Sodium Hydroxide	Yes	8 (Corrosive)	2R	S6	1824	Feb 2026	120L	Boiler Water Treatment and pH Correction	Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Store away from incompatible materials including acids, ammonium salts, foodstuffs and most metals.	

Hazardous Chemicals Register & Risk Assessment 600 Bourke Street, Melbourne VIC

Manufacturer/ Product name	Active Chemical Ingredient	Hazardous? (Yes/No)	DG Class/ Sub-risk	Haz Chem Code	Poison Schedule	UN Number	SDS Expiry Date	Max Quantity On Site	Approved Use	Safe Storage Requirements		
Hydro Flow 510	Sodium Nitrate	Yes	8 (Corrosive) & 6.1 (Toxic)	2X	\$6	2922	Feb 2026	60L	Closed loop corrosion inhibitor	Store in a cool, dry place, away from incompatible materials including combustibles, acids, amines, ammonium salts, organic compounds, reducing agents and most metals.		
Hydro Flow 740	Hydrochloric Acid	Yes	8 (Corrosive)	2R	S6	1789	No SDS	15L	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.		
Level 51 – Chiller F	Level 51 – Chiller Plant Room											
R134A	1,1,1,2- Tetraflourorethane (HFC 134A)	Yes	2.2 (Non-Toxic Gas)	2TE	-	3159	Aug 2026	~1,000kg	Refrigerant Gas	Do not store near incompatible materials. Cylinders should be stored in a secure area, upright and restrained to prevent cylinders from falling. Cylinders should also be stored in a dry, well ventilated area, away from areas of heavy traffic and emergency exits.		
Level 37 – Plant Ro	om											
Diesel	Diesel	Yes	9 (Combustible C1)	3Z	S5	3082	Jun 2024	1,000L	Fuel for compression ignition diesel engines	Keep in a cool, well-ventilated area. Store and use only in equipment/containers designed for use with this product.		
Level 4 – Plant Roc	Level 4 – Plant Room											
Diesel	Diesel	Yes	9 (Combustible C1)	3Z	\$5	3082	Jun 2024	1,000L	Fuel for compression ignition diesel engines	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)	DG Class/ Sub-risk	Haz Chem Code	Poison Schedule	UN Number	SDS Expiry Date	Max Quantity On Site	Approved Use	Safe Storage Requirements		
Level B1 – Second	Level B1 – Secondary Cleaners Room/Bike Storage Room											
Agar Chloradet	Sodium hypochlorite	Yes	8 (Corrosive)	2R	S6	1719	May 2026	5L	Cleaner, sanitiser and disinfectant for hard surfaces	Keep in a cool, dry and well-ventilated area. Check containers periodically for corrosion and leaks. Containers should be kept closed in order to minimise contamination. Make sure that the product does not come into contact with incompatible substances.		
Agar Fast Glass	Ethyl alcohol	Yes	-	-	-	-	Aug 2026	30L	Spray and wipe cleaner for glass, mirrors and other shiny surfaces	Keep in a cool, dry and well-ventilated area. Make sure that containers of this product are kept tightly closed. Make sure that the product does not come into contact with incompatible substances.		
Agar Lemon	Non-ionic detergents	Yes	-	-	_	-	Aug 2026	5L	Commercial-Grade Disinfectant for hard surface cleaning and disinfecting	Keep in a cool, dry and well-ventilated area. Make sure that the product does not come into contact with incompatible substances.		
Hexa	Amides, coconut, N- (hydroxyethyl); Betaines, C12-14- alkyldimethyl; Phenol, 4-chloro-2- (phenylmethyl)-; Poly(oxy-1,2-ethanediyl), alphasulfoomega (dodecyloxy)-, sodium salt; Sulfuric acid, monododecyl ester, sodium salt	No	-	-	-	-	Sep 2023	10L	Anti-Bacterial Hand Soap	Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from oxidising agents.		
Recognised Pearl Hand wash	Non-hazardous ingredients	-	-				Jul 2025	5L	Hand wash	Keep in a cool, dry and well-ventilated area.		
Agar Wipe Away	Non-ionic surfactants	Yes	-	-	-	-	May 2025	5L	Detergent for spray-and-wipe cleaning of hard surfaces	Keep in a cool, dry and well-ventilated area. Make sure that the product does not come into contact with incompatible substances.		

Manufacturer/ Product name	Active Chemical Ingredient	Hazardous? (Yes/No)	DG Class/ Sub-risk	Haz Chem Code	Poison Schedule	UN Number	SDS Expiry Date	Max Quantity On Site	Approved Use	Safe Storage Requirements	
Agar Bowl Clean	Phosphoric acid Organic acid	Yes	-		-	-	Aug 2025	30L	Toilet and urinal cleaner	Keep in a cool, dry and well-ventilated area. Make sure that containers of this product are kept tightly closed. Make sure that the product does not come into contact with incompatible substances.	
Level B3 – Cleane	Level B3 – Cleaners Main Storeroom										
Agar Alcohol Sanitiser	Ethanol	Yes	3 (Flammable Liquid)	2Y	-	1170	May 2025	35L	Ethanol-based sanitiser	Keep in a cool, dry and well-ventilated area removed from incompatible materials.	
Agar Novadet	Non-ionic detergents	Yes	-	-	-	-	May 2025	30L	General purpose detergent for mopping, or scrubbing all hard surfaces	Keep in a cool, dry and well-ventilated area. Make sure that the product does not come into contact with incompatible substances.	
Agar Breeze	Non-ionic surfactants	Yes	-	-	-	-	Apr 2025	1.5L	Detergent/air freshener	Keep in a cool, dry and well-ventilated area. Make sure that containers of this product are kept tightly closed. Make sure that the product does not come into contact with incompatible substances.	
Agar Wipe Away	Non-ionic surfactants	Yes	-	-	-	-	May 2025	20L	Detergent for spray-and-wipe cleaning of hard surfaces	Keep in a cool, dry and well-ventilated area. Make sure that the product does not come into contact with incompatible substances.	
Agar Bowl Clean	Phosphoric acid Organic acid	Yes	-		-	-	Aug 2025	25L	Toilet and urinal cleaner	Keep in a cool, dry and well-ventilated area. Make sure that containers of this product are kept tightly closed. Make sure that the product does not come into contact with incompatible substances.	
Agar Fast Glass	Ethyl alcohol	Yes	-	-	-	-	Aug 2025	25L	Spray and wipe cleaner for glass, mirrors and other shiny surfaces	Keep in a cool, dry and well-ventilated area. Make sure that containers of this product are kept tightly closed. Make sure that the product does not come into contact with incompatible substances.	
Agar Chloradet	Sodium hypochlorite	Yes	8 (Corrosive)	2R	S6	1719	May 2025	45L	Cleaner, sanitiser and disinfectant for hard surfaces	Keep in a cool, dry and well-ventilated area. Check containers periodically for corrosion and leaks. Containers should be kept closed in order to minimise contamination. Make sure that the product does not come into contact with incompatible substances.	

Manufacturer/ Product name	Active Chemical Ingredient	Hazardous? (Yes/No)	DG Class/ Sub-risk	Haz Chem Code	Poison Schedule	UN Number	SDS Expiry Date	Max Quantity On Site	Approved Use	Safe Storage Requirements
Recognised Pearl Hand wash	Non-hazardous ingredients	-	-				Jul 2025	5L	Hand wash	Keep in a cool, dry and well-ventilated area.
Regal White Lotion Hand Soap	Non-hazardous ingredients	-	-				Feb 2023	25L	Hand wash	Keep in a cool, dry and well-ventilated area.
Agar Counter Flu	Quaternary ammonium compounds, nonionic surfactants, isopropanol	Yes	-	-	S5	-	Aug 2024	20L	Hospital grade disinfectant	Keep in a cool, dry and well-ventilated area removed from incompatible materials.
Agar Carpet Shampoo	Sodium lauryl sulfate, anionic surfactants	Yes	-	-	-	-	Mar 2026	5L	Dry foam shampoo for cleaning carpets	in a cool, dry and well-ventilated area removed from incompatible materials.
Agar Acid Wash	Phosphoric acid	Yes	8 (Corrosive)	2X	S6	3264	Oct 2025	10L	Dissolves scale and rust from hard surfaces	Keep in a cool, dry and well-ventilated area. Check containers periodically for corrosion and leaks. Containers should be kept closed in order to minimise contamination. Make sure that the product does not come into contact with incompatible substances.
Agar Softie	Sodium hypochlorite, 12.5% available chlorine	Yes	-	-	\$5	-	Aug 2025	20L	Cleaner and sanitiser for hard surfaces	Keep in a cool, dry and well-ventilated area. Make sure that containers of this product are kept tightly closed. Make sure that the product does not come into contact with incompatible substances.
Agar Lemon	Non-ionic detergents	Yes	-	-	-	-	Mar 2025	55L	Commercial-Grade Disinfectant for hard surface cleaning and disinfecting	Keep in a cool, dry and well-ventilated area. Make sure that the product does not come into contact with incompatible substances.
Agar Cool Tide	Ethanol	Yes	3 (Flammable Liquids)	-	-	-	Mar 2025	25L	Instant hand sanitiser	Keep in a cool, dry and well-ventilated area removed from incompatible materials.
Agar Fresco	Non-ionic surfactants Other non-hazardous ingredients	Yes	-	-	-	-	May 2025	10L	Toilet and washroom cleaner for use by pouring onto surface or diluting and mopping or sponging	Keep in a cool, dry and well-ventilated area. Make sure that containers of this product are kept tightly closed. Make sure that the product does not come into contact with incompatible substances.
Agar Carpet Detergent	Sodium Lauryl Sulfate, anionic surfactants	Yes	_	-	-	-	No SDS	10L	Dry foam shampoo for cleaning carpets	Keep in a cool, dry and well-ventilated area removed from incompatible materials.

Manufacturer/ Product name	Active Chemical Ingredient	Hazardous? (Yes/No)	DG Class/ Sub-risk	Haz Chem Code	Poison Schedule	UN Number	SDS Expiry Date	Max Quantity On Site	Approved Use	Safe Storage Requirements
Agar Spray Buff C	Non-ionic detergents	Yes	-	-	-	-	Apr 2026	25L	Cleaning agent for spray-buffing floors	Keep in a cool, dry and well-ventilated area. Make sure that the product does not come into contact with incompatible substances.
Agar CM-X	Urea hydrochloride	Yes	8 (Corrosive)		S6	3264	Oct 2025	10L	Dissolving concrete, scale and rust from hard surfaces	Keep in a cool and well-ventilated area. Check containers periodically for corrosion and leaks. Containers should be kept closed in order to minimise contamination. Make sure that the product does not come into contact with incompatible substances.
Agar Tango	Nonionic detergents, benzalkonium chloride	Yes	-	-	-	-	Apr 2025	35L	Hospital grade disinfectant	Keep in a cool, dry and well-ventilated area removed from incompatible materials.
Agar Oil Removal Paste	Mineral turpentine	Yes	3 (Flammable Liquid)	3[Y]	S5	1993	Jan 2024	1L	Removing oil stains from porous stone and concrete surfaces	Keep in a cool and well-ventilated area. Check containers periodically for leaks. Containers should be kept closed in order to minimise contamination and possible evaporation. Make sure that the product does not come into contact with incompatible subtances
Agar Venue	Ethanol; 2-butoxy ethanol ; Ethanolamine	Yes	Class 3 (flammable liquid)	2Y	\$6	1170	May 2025	5L	Glass cleaner concentrate	Store in a cool, well ventilated area, and make sure that surrounding electrical devices and switches are suitable. Make sure that the product does not come into contact with oxidising agents.
Agar DLX Citrus Degreaser	d-limonene	Yes	3 (Flammable Liquid)	3Y	-	1993	Oct 2025	۱L	Solvent-based cleaner for removing grease, oil, tar, ink, adhesive and chewing gum stains	Keep in a cool and well-ventilated area. Check containers periodically for leaks. Containers should be kept closed in order to minimise contamination and possible evaporation. Make sure that the product does not come into contact with incompatible substances.
Agar Shifter	LABS acid, potassium salts	Yes	8 (Corrosive)	2R	S6	1719	Sep 2025	10L	Hard-surface cleaner	Keep in a cool and well-ventilated area. Check containers periodically for corrosion and leaks. Containers should be kept closed in order to minimise contamination. Make sure that the product does not come into contact with incompatible substances.

Manufacturer/ Product name	Active Chemical Ingredient	Hazardous? (Yes/No)	DG Class/ Sub-risk	Haz Chem Code	Poison Schedule	UN Number	SDS Expiry Date	Max Quantity On Site	Approved Use	Safe Storage Requirements
Agar Steel Shine	Nonionic detergents	Yes	-	-	-	-	No SDS	10L	Protecting and shining stainless steel and other metals	No specific requirements.
Agar Stainless Steel Oil	Liquid hydrocarbons	Yes	C1 (Combustible Liquid)	-	S5	-	Aug 2025	10L	Protective oil for use on stainless steel panels	Store in a cool, dry, well ventilated area removed from heat and ignition sources, sparks and open flames and incompatible materials.
Bio Blitz – Biological Cleaner Concentrate	Orange, sour, peel, extract, solid Poly(oxy-1,2-ethanediyl), .alphadodecyl- .omegahydroxy-	No	-	-	-	-	Jan 2024	15L	Biological Cleaning	Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials.
Tasman Chemicals Hexa Antibacterial Hand Cleaner	Amides, coconut, N- (hydroxyethyl), betaines, C12-14-alkyldimethyl, phenol, 4-chloro-2- (phenylmethyl), poly(oxy-1,2-ethanediyl), . alpha-sulfoomega (dodecyloxy)-,sodium salt, sulfuric acid, monododecyl ester	Yes	-	-	-	-	Aug 2023	20L	Antibaterial hand soap	Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from heat and ignition sources.
Agar Bonnet Cleaner	Anionic surfactants, Tetrasodium EDTA	Yes	-	-	-	-	Aug 2026	10L	Liquid detergent for bonnet cleaning of carpets.	Make sure that containers of this product are kept tightly closed. Make sure that the product does not come into contact with substances listed under "Incompatibilities" (oxidizing agents).
Agar Rustex	Hydroflouric acid	Yes	8 (Corrosive Substances)	2X	S6	1790	Jan 2026	500mL	Dissolves rust stains in carpets and rugs	This product is a Scheduled Poison. Store in a cool, well ventilated area. Check containers periodically for corrosion and leaks. Containers should be kept closed in order to minimise contamination. Make sure that the product does not come into contact with substances listed under "Incompatibilities" (bases, glass, ceramics).
Northfork Handwash	Sodium lauryl ether sulfate, cocamidopropylbetain, glycerol, salicylic acid	Yes	-	-	-	-	Nov 2024	5L	Hand washing	Keep in a cool, dry and well-ventilated area.

600 Bourke Street, Melbourne VIC

Manufacturer/ Product name	Active Chemical Ingredient	Hazardous? (Yes/No)	DG Class/ Sub-risk	Hɑz Chem Code	Poison Schedule	UN Number	SDS Expiry Date	Max Quantity On Site	Approved Use	Safe Storage Requirements
Central Methylated Spirits	Ethanol	Yes	3 (Flammable Liquid)	2YE	\$5	1170	Feb 2023	5L	Solvent, Fuel, Cleaning	Store in a cool, dry, well ventilated area away from incompatible materials.
Level B3 – Fire Pump Room										
Diesel	Diesel	Yes	9 (Combustible C1)	3Z	S5	3082	Jun 2024	650L	Fuel for compression ignition diesel engines	Keep in a cool, well-ventilated area. Store and use only in equipment/containers designed for use with this product.
Level B4 – Fuel Tra	nsfer Pump Room									
Diesel	Diesel	Yes	9 (Combustible C1)	3Z	\$5	3082	Jun 2024	100L	Fuel for compression ignition diesel engines	Keep in a cool, well-ventilated area. Store and use only in equipment/containers designed for use with this product.
Level B4 – Beneath Car Park										
Diesel	Diesel	Yes	9 (Combustible C1)	3Z	\$5	3082	Jun 2024	32,000L	Fuel for compression ignition diesel engines	Keep in a cool, well-ventilated area. Store and use only in equipment/containers designed for use with this product.

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

Appendix 3 Information

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

Changes to labels under the WHS Regulations

The new Occupational Health and Safety (OHS) Regulations introduced a new system of labelling for hazardous chemicals based on the United Nations' Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.

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.

600 Bourke Street, Melbourne VIC

Pictogram		Hazard	Pictogram		Hazard
GH Ex bo	HS01— kploding omb	Explosion, blast or projection hazard		GHS02 – Flame	Flammable liquids, solids and gases; including self- heating and self-igniting substances.
GH Fla cir	HS03— ame over cle	Oxidising liquids, solids and gases, may cause or intensify fire		GHS04—Gas cylinder	Gases under pressure
GH Sk Cre	HS05— kull and ossbones	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
GF CC	HS07— orrosion	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
GH	IS09— vironment	Hazardous to aquatic life and the environment			

GHS Hazard Pictograms

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

600 Bourke Street, Melbourne VIC

Note: the OHS 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 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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	DIEDZANG GAGHT 5,1 2	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	CONNESSE	Corrosive to metals

600 Bourke Street, Melbourne VIC

Pictogram	GHS Hazard	Dangerous Good Class Labels (Pictograms)	ADG Classes
×	Aquatic toxicity. Not covered within the scope of workplace hazardous chemicals requirements	₩2	Environmental hazard
No equivalent hazard pictogram		Developer 9	Miscellaneous dangerous goods
Not covered within the scope of workplace hazardous chemicals requirements		RECTIOUS SUBSTANCE 6	Infectious
Not covered within the scope of workplace hazardous chemicals requirements		REGONETINE 1	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.

Flammosol —		Product identifier
Contains: Aliphatic bydrocarbons 95% Toxicole 5%	0	Identity and proportion of each chemical ingredient
	500ml	
\wedge	DANGER	Signal word
	Highly flammable liquid and	Pictograms
\triangleleft \vee	Vapour Toxic if swallowed Causes skin irritation	Hazard statements
Keep away from sparks and open flames No smoking. Wear protective gloves and eye and face protection.	IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Binse mouth.	
Wash hands thoroughly after handling.	IF ON SKIN (or hair): Take off contaminated clothing and wash before re-use.	Precautionary statements
Do not eat, drink or smoke when using this product.	If skin initation occurs: Get medical advice/attention. Rinse skin using	
Store locked up in well ventilated place. Keep cool.	plenty of soap and water. In case of fire: Use powder for	
Dispose of contents / container in accordance with local regulations.	extinction	
Refer to the Safety Data Sheet before	use	Other useful information
Madeup Chemical Company, 999 Che My State, Telephone; 1300 000 000	emical Street, Chemical Town,	 Name, address and telephone number of the Australian manufacturer or importer.

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.