## Design for a better *future /*

MIRVAC RETAIL

HAZARDOUS CHEMICAL REGISTER AND ASSESSMENT

RHODES WATERSIDE, 1 RIDER BOULEVARD, RHODES NSW

**\\**\}

JULY 2024

# Question today Imagine tomorrow Create for the future

#### Hazardous Chemical Register and Assessment Rhodes Waterside, 1 Rider Boulevard, Rhodes NSW

Mirvac Retail

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REV	DATE	DETAILS
А	02/07/2024	Final

	NAME	DATE	SIGNATURE
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Approved by:	David Hauser	10/07/2024	K

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We recognise Aboriginal and Torres Strait Islander Peoples as the first scientists and engineers and pay our respects to Elders past and present.

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PS213377-WSP-SYD-EHS-REP-001 RevA1 - Mirvac Rhodes Waterside Haz Chem Register Jul 2024

# wsp

### TABLE OF CONTENTS

EXEC		
1		1
2	SCOPE	2
3	METHODOLOGY	3
3.1	PHYSICAL INSPECTION	3
3.2	REPORTING	3
4	HAZARD IDENTIFICATION – LEGISLATIVE REQUIREMENTS	4
4.1	RISK ASSESSMENT	4
4.2	RECOMMENDED ACTIONS	4
5	HAZARD IDENTIFICATION - SUBSTANCES	5
5.1	HAZARDOUS CHEMICALS	5
5.2	DANGEROUS GOODS	5
5.3	HAZARDOUS SUBSTANCES	6
5.4	HAZARD PICTOGRAMS	7
6	FINDINGS	8
7	RECOMMENDATIONS	9
8	LIMITATIONS	10

#### LIST OF APPENDICES

APPENDIX A RISK ASSESSMENT CLASSIFICATION - GUIDE APPENDIX B HAZARDOUS CHEMICAL REGISTER APPENDIX C RISK ASSESSMENT APPENDIX D PHOTOGRAPHS

## **EXECUTIVE SUMMARY**

#### Purpose

This report presents the findings of a hazardous chemicals assessment conducted at Rhodes Waterside Shopping Centre located at 1 Rider Boulevard, Rhodes NSW. The assessment was undertaken to develop a Hazardous Chemical Register and identify and assess potential risks associated with the storage and handling of chemicals on site. Nick Blyth (Team Leader – Property Risk) of WSP carried out the assessment on Wednesday 19<sup>th</sup> June 2024 at the request of Stephen Smith (Duty Manager) of Mirvac Retail.

#### Scope

The scope of this assessment included the following:

- A visual inspection of the site to identify hazardous chemicals stored on site;
- Discussions with site personnel and a review of hazardous chemical documentation (i.e. any existing hazardous chemical registers, risk assessments, incident reports, bulk storage tank maintenance documentation, safety data sheets, chemical manifests etc.);
- Review current storage arrangements and provide recommendations in accordance with current legislation including spill containment provisions, safety signage, placarding and manifest requirements (if applicable) and segregation of incompatible classes of hazardous chemicals;
- Review the location and presence of bulk underground or above ground fuel tanks (if applicable);
- Inspection of Safety Data Sheets (SDS) and labelling of stored hazardous chemicals;
- Development of this Hazardous Chemical Register and Risk Assessment Report (including findings and recommendations); and
- A photographic supplement of identified findings.

#### Findings

The following potential hazards were identified on site and were evaluated as high risk:

- Level P1 North ST2 Cleaners Store Incompatible hazardous chemicals of Class 3 (Flammable Liquid) and Class 8 (Corrosive Substances) were stored without adequate segregation.
- Level 9 Cooling Tower Enclosure Incompatible hazardous chemicals of Class 5.1 (Oxidising) and Class 8 (Corrosive Substances) were stored without adequate segregation.
- Level 9 Cooling Tower Enclosure, Level 11 Cooling Tower Enclosure Inadequate first aid equipment (plumbed eyewash station) provided for chemical exposure to corrosive chemicals.
- Level P2 Loading Dock 3 LP Gas Store Inappropriate storage or gas cylinders (no fall protection/unsecured).

The following potential hazards were identified on site and were evaluated as **medium risk**:

- Level P1 ST2 Cleaners Store, Level P1 Cleaners Room, Level 2 Cleaners Store, Level 4 Cleaners Store and Level 2 Loading Dock 3 Lift Motor Room – Hazardous chemicals not stored within secondary spill containment.
- Level P1, Sprinkler Pump Room Hazardous chemical containers overhanging secondary spill containment.
- Level P1, Sprinkler Pump Room, Level P1 Cleaners Room, Loading Dock 3 Lift Motor Chemical containers not labelled.
- Throughout, All Storage Locations Missing and out of date Safety Data Sheets (SDS) at chemical storage locations.

- Level P1 Sprinkler Pump Room Spill kit not appropriately maintained and used as a rubbish bin.
- Level P1 ST7, Level P1 ST2 Cleaners Store, Level 4 Cleaners Store, Level 9 Cooling Tower Enclosure, Level 11 Cooling Tower Enclosure – Hazardous chemical storage locations not clearly signposted.

Detailed potential hazards and the subsequent potential consequences of the hazard are provided in **Appendix C**, and are illustrated by the photographs in **Appendix D**.

#### Recommendations

The following recommendations are made based on high risk:

- Level P1 North ST2 Cleaners Store Ensure incompatible chemicals of Class 3 (Flammable Liquid) and Class 8 (Corrosive Substances) are to be kept apart by a minimum of three (3) metres in accordance with AS/NZS 3833:2007 The storage and handling of mixed classes of dangerous goods in packages and intermediate bulk containers and WHS Regulation (NSW) 2017, Clause 356.
- Level 9 Cooling Tower Enclosure Ensure incompatible chemicals of Class 5.1 (Oxidising) and Class 8 (Corrosive Substances) are to be kept apart by a minimum of three (3) metres in accordance with AS/NZS 3833:2007 The storage and handling of mixed classes of dangerous goods in packages and intermediate bulk containers and WHS Regulation (NSW) 2017, Clause 356.
- Level 9 Cooling Tower Enclosure, Level 11 Cooling Tower Enclosure Install an emergency eyewash/shower facility
  connected to the building water supply adjacent the chemical storage area. Emergency eyewash/shower is to be
  installed in accordance with AS4775:2007 Emergency eyewash and shower equipment. Additionally, relocate
  emergency eyewash bottles closer to chemical storage areas to reduce distance.
- Level P2 Loading Dock 3 LP Gas Store Ensure that gas cylinders are stored in an upright position, chained and afforded appropriate impact protection.

The following recommendations are made based on medium risk:

- Level P1 ST2 Cleaners Store, Level P1 Cleaners Room, Level 2 Cleaners Store, Level 4 Cleaners Store and Level 2 Loading Dock 3 Lift Motor Room Provide adequate spill containment (e.g. secondary containment) for all chemicals stored on site in accordance with WHS Regulation (NSW) 2017, Clause 357.
- Level P1, Sprinkler Pump Room Relocate the diesel drum to ensure it is stored in the centre of the provided pallet bund in accordance with WHS Regulation (NSW) 2017, Clause 357.
- Level P1, Sprinkler Pump Room, Level P1 Cleaners Room, Loading Dock 3 Lift Motor All containers that hold a hazardous chemical, including containers in which substances are decanted, must be appropriately labelled in accordance with the WHS Regulation 2017 (NSW), Clauses 341 and 342. As a minimum labels should clearly identify the substance, include the Australian address and phone number of the manufacturer/importer, proportion of ingredients and provide basic health and safety information about the substance, including any signal words, relevant hazard and precautionary statements and hazard pictograms. Alternatively, appropriately dispose of unlabelled chemicals.
- Throughout, All Storage Locations Obtain current (i.e. within 5 years from issue date) SDS for hazardous chemicals on site. Ensure copies of the SDS are located at the point of use/storage of the hazardous chemical to ensure that they are 'readily accessible' in accordance with WHS Regulation 2017 (NSW), Clause 344 and Schedule 7.
- Level P1 Sprinkler Pump Room Provide adequate spill containment provisions (e.g. spill kit) for all chemicals stored on site and ensure the spill kit is appropriately maintained (e.g. not used as a rubbish bin) in accordance with WHS Regulation (NSW) 2017, Clause 357.
- Level P1 ST7, Level P1 ST2 Cleaners Store, Level 4 Cleaners Store, Level 9 Cooling Tower Enclosure, Level 11 Cooling Tower Enclosure Install 'Hazardous Chemical' warning signage to clearly identify chemical storage locations throughout the site in accordance with WHS Regulation (NSW) 2017, Clause 353.

## **1** INTRODUCTION

This report presents the findings of a hazardous chemicals assessment conducted at Rhodes Waterside Shopping Centre located at 1 Rider Boulevard, Rhodes NSW. The assessment was undertaken to develop a Hazardous Chemical Register and identify and assess potential risks associated with the storage and handling of chemicals on site. Nick Blyth (Team Leader – Property Risk) of WSP carried out the assessment on Wednesday 19<sup>th</sup> June 2024 at the request of Stephen Smith (Duty Manager) of Mirvac Retail.

## 2 SCOPE

The Hazardous Chemical Register and Risk Assessment was based on Chapter 7 of the WHS Regulation (NSW) 2017 and Code of Practice: Managing Risks of Hazardous Chemicals in the Workplace (SafeWork NSW, 2022).

The scope of this assessment included the following:

- A physical inspection of the building to identify current hazardous chemicals stored on site;
- Discussions with site personnel and a review of hazardous chemical documentation (i.e. any existing hazardous chemical registers, risk assessments, incident reports, bulk storage tank maintenance documentation, safety data sheets, chemical manifests etc.);
- Review current storage arrangements and provide recommendations in accordance with current legislation including spill containment provisions, safety signage, placarding and manifest requirements (if applicable) and segregation of incompatible classes of hazardous chemicals;
- Review the location and presence of bulk underground or above ground fuel tanks (if applicable);
- Inspection of Safety Data Sheets (SDS) and labelling of stored hazardous chemicals;
- Development of this Hazardous Chemical Register and Risk Assessment Report (including findings and recommendations); and
- A photographic supplement of identified findings

Note: The assessment was limited to base building managed chemicals, tenant chemicals were not assessed as part of this project.

# 3 METHODOLOGY

### 3.1 PHYSICAL INSPECTION

The onsite inspection component involved a walkthrough of nominated readily accessible common areas under the control of base building (including Plant Rooms, Hazardous Chemicals Storerooms, Cleaner's Storerooms, fuel stores etc.) for identification of hazardous chemicals stored on site and to determine the physical hazards associated with the storage and handling of hazardous chemicals. Safety Data Sheets (SDS) were examined to determine the inherent risks associated with the substances stored and handled on site.

### 3.2 REPORTING

A Register of Hazardous Chemicals identified in base building managed areas has been prepared, drawing from existing documentation. The register includes information such as typical storage quantities, storage location and storage requirements.

Risk assessments have been developed and documented including findings and recommendations. The risk assessment process included the assistance of site personnel who work in, or are familiar with, the hazardous chemical storage areas. The risk assessment process included a review of current storage arrangement for hazardous chemicals in relation to relevant legislative requirements including current risk control measures and the identification of additional controls aimed at eliminating, or mitigating the risk associated with hazardous chemicals on site.

### 4 HAZARD IDENTIFICATION – LEGISLATIVE REQUIREMENTS

A visual inspection of hazardous chemicals on site was undertaken during the site inspection to determine the relevant legislative controls.

The site inspection included an assessment of the storage facilities for spill containment, safety signage, Safety Data Sheets, Personal Protective Equipment (PPE), storage of incompatible substances and materials, water supply, emergency access/egress and fire-fighting equipment.

The findings of the site inspection were linked to an assessment against legislative and best practice requirements. Legislative documents used throughout the assessment included:

- WHS Act 2011 (NSW);
- WHS Regulation 2017 (NSW), Chapter 7 Hazardous Chemicals;
- Code of Practice: Managing Risks of Hazardous Chemicals in the Workplace (SafeWork NSW, 2022);
- Code of Practice: Labelling of Workplace Hazardous Chemicals (SafeWork NSW, 2022);
- AS1940:2017 The storage and handling of flammable and combustible liquids;
- AS3780:2023 The storage and handling of corrosive substances;
- AS4332:2004 The storage and handling of gases in cylinders;
- AS/NZS3833:2007 The storage and handling of mixed classes of dangerous goods, in packages and intermediate bulk containers;
- AS4326:2008 The storage and handling of oxidizing agents; and
- AS/NZS1596:2014 The storage and handling of LP Gas.

Each legislative requirement was assessed for potential hazards associated with non-compliance. Where potential hazards were identified they were recorded in the Risk Register in **Appendix C**.

### 4.1 RISK ASSESSMENT

Hazards identified through the above process were assessed for the potential consequence(s) and in the likelihood that the hazard is realised. The risk assessment approach is detailed in **Appendix A** of this report.

### 4.2 RECOMMENDED ACTIONS

The results of the risk assessment are tabulated in Appendix C of this report.

### 5 HAZARD IDENTIFICATION -SUBSTANCES

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

Notable storage requirements are presented in the Hazardous Chemical Register in Appendix B.

### 5.1 HAZARDOUS CHEMICALS

Under the WHS legislation, Hazardous Chemicals means a substance, mixture or article that satisfies the criteria for a hazard class in the Globally Harmonized System (GHS). Hazardous Chemicals include both Dangerous Goods and Hazardous Substances.

### 5.2 DANGEROUS GOODS

The identification of hazards associated with dangerous goods looks at how they are stored and handled. Factors considered are the inherent hazards such as fire, explosion, corrosion, toxic emissions and the potential for incidents. Dangerous goods classes are as follows:



Class 7 - Radioactive Substances

Class 8 - Corrosive Substances

Class 9 – Miscellaneous Dangerous Substances

There are many sub-classes within these classes that further classify dangerous goods according to their properties e.g. Class 2.1 – Flammable Gas, Class 2.2 – Non-Flammable Gas, Class 2.3 Poisonous Gas, etc.

### 5.3 HAZARDOUS SUBSTANCES

Hazardous substances are defined in terms of their direct health effects on people whereas dangerous goods 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.

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.

### 5.4 HAZARD PICTOGRAMS

The Globally Harmonised System of Classification and Labelling of Chemicals (GHS) uses nine (9) hazard pictograms to represent the physical, health and/or environmental hazards or chemicals. The pictograms and hazards are shown below:







Flame – Flammability





Corrosion - Corrosive

Gas Cylinder – Gases Under Pressure



Skull and Crossbones - Acute Toxicity



Health Hazard – Chronic Health

Flame Over Circle - Oxidising

Hazard Exclamation Mark – Certain Health Hazard



Environment – Environmental Hazard



## 6 FINDINGS

The following potential hazards were identified on site and were evaluated as high risk:

- Level P1 North ST2 Cleaners Store Incompatible hazardous chemicals of Class 3 (Flammable Liquid) and Class 8 (Corrosive Substances) were stored without adequate segregation.
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The following potential hazards were identified on site and were evaluated as medium risk:

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Detailed potential hazards and the subsequent potential consequences of the hazard are provided in **Appendix C**, and are illustrated by the photographs in **Appendix D**.

## 7 **RECOMMENDATIONS**

The following recommendations are made based on high risk:

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This Report is provided by WSP Australia Pty Limited (*WSP*) for Mirvac Retail (*Client*) in response to specific instructions from the Client and in accordance with WSP's proposal and agreement with the Client (*Agreement*).

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# **APPENDIX A** RISK ASSESSMENT CLASSIFICATION -GUIDE



## A1. RISK ASSESSMENT CLASSIFICATION – GUIDE

#### Likelihood

The probability measures the likelihood of an event linked to the identified hazard occurring or being realised. The likelihood matrix uses five categories as detailed below.

LEVEL	DESCRIPTOR	DESCRIPTION
А	Almost certain	Will occur in most circumstances
В	Likely	Expected to occur occasionally
С	Moderate	May be experienced sometime in a working life
D	Unlikely	Would only occur in unlikely circumstances
Е	Rare	Not expected to occur but could

Table A.1 Likelihood

#### Consequence

The consequence is the physical outcome of the hazard and provides an indication of the severity of the risk in relation to the detrimental effects to humans, property and productivity. The consequence matrix uses five categories as detailed below.

Table A.2	Consequence
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LEVEL	DESCRIPTOR	DESCRIPTION	COST/PRODUCTIVITY
1	Catastrophic	Fatality	Loss of operation and huge financial loss
2	Major	Extensive injuries or long term serious illness and loss of time	Loss of some operation time and productivity and major financial loss
3	Moderate	Medical treatment required and up to a few days lost from workplace	Loss of productivity and high financial loss
4	Minor	First Aid required. No lost time from workplace	Medical treatment costs only
5	Insignificant	No injury but may impact on working productivity	Productivity not optimal, low or no financial loss

#### **Risk Matrix**

The risk score is based on the product of the two key factors, namely probability and consequence as detailed in the following matrix:

	CONSEQUENCE										
LIKELIHOOD	1	2	2 3		5						
А	Extreme	Extreme	Extreme	High	High						
В	Extreme	Extreme	High	Medium	Medium						
С	Extreme	High	Medium	Medium	Low						
D	High	High	Medium	Low	Low						
Е	High	High	Medium	Low	Low						

Extreme Risk:	Plan controls for immediate intervention
High Risk:	High priority for action
Medium Risk:	Responsibility to be allocated and timeframe set for action
Low Risk:	Implement appropriate management plans

#### **Control of Risk**

In order to determine possible control measures the hierarchy of control should be referenced. The hierarchy of controls provides a range of control measures from the most effective to the least effective. The preferred order is as follows:

- Level 1 Elimination removing the hazard from the workplace. This is the most effective control measure;
- Level 2 Substitution substituting or replacing a hazardous work practice with a less hazardous process;
- Level 2 Isolation isolating or separating the hazard from people involved in the work or people in the general work areas. This can be achieved by installing screens or marking off hazardous areas;
- Level 2 Engineering Control this may include modifications to hazardous areas, providing guarding, railing etc.;
- Level 3 Administrative Control includes introducing work practices that reduce the risk. This could include training, procedural control, access restrictions, signposting of a particular hazardous area; and
- Level 3 Personal Protective Equipment should be the last resort and only considered when other control
  measures are not practicable.

In some instances, a combination of control measures may be appropriate.

Risk control measures should be considered where identified hazards have a risk rating where it may be possible to further reduce risk. 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 dangerous good/hazardous substance or the activity which gives rise to the risk.

#### Substitution

Substituting the dangerous good or hazardous substance with another product, that has a lower risk associated with the storage and handling.

#### **Reducing Quantities Stored and Handled**

Where possible, the quantities of dangerous goods and hazardous substances 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 dangerous goods.

#### **Engineering Controls**

Engineering controls are controls which use engineering measures to reduce the risk associated with the storage and handling of dangerous goods or hazardous substances (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 dangerous goods and hazardous substances.

#### 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 employees should be trained to fit and use any required PPE properly.

# APPENDIX B HAZARDOUS CHEMICAL REGISTER



HAZARDOUS CH	EMI	CAL	. RE	GIST	ER			DATE:	19/06/2024	
								REVIEW DATE:	19/06/2025	
SITE: RHODES WATERSIDE SH	HOPPIN	G CEN	TRE, 1	RIDER B	OULEVAR	RD, RHODES NSW		ASSESSED BY:	NICK BLYTH (WSP)	
Trade Name	Hazardous	DG Class/Sub- Risk	Hazchem Code	Poison Schedule	Max Quantity	Storage Location	Approve Use	Specific Storage Requirements	PPE Requirement	SDS Expiry Date
level P1 South										
Diesel	Haz	-	-	-	220L	Sprinkler Pump Room	Fuel for compression ignition diesel engines	Avoid ignition sources (spark, flame) and excessive heat. Incompatible with oxidising materials	Chemical splash goggles and chemical resistance gloves	8/06/24
Dulux Roadmaster A1	Haz	3	3Y	N/A	158L	ST7 (Paint Store)	Road marking paint	Incompatible with oxidising agents	Safety shoes, overalls, gloves, safety glasses, respirator	No SDS
Dulux Metalshield QD Enamel	Haz	3	3YE	N/A	128L	ST7 (Paint Store)	Industrial paint	Incompatible with oxidising agents	Safety shoes, overalls, gloves, safety glasses, respirator	No SDS
Bostik Superclear	Haz	3	Unk	Unk	20L	ST7 (Paint Store)	Contact adhesive	Unknown	Unknown	No SDS
White Knight Rust Guard Epoxy Enamel	Haz	3	3Y	S5	8L	ST7 (Paint Store)	Coating	Incompatible with oxidising agents, strong alkalis and strong acids	Chemical resistant gloves	No SDS
Dulux Weathershield (various)	Haz	3	Unk	Unk	~200L	ST7 (Paint Store)	Paint	Unknown	Unknown	No SDS
Taubmans Pure Performance (various)	Unk	Unk	Unk	Unk	~50L	ST7 (Paint Store)	Paint	Unknown	Unknown	No SDS
White Knight Ultra Pave	Unk	Unk	Unk	Unk	20L	ST7 (Paint Store)	Paint	Unknown	Unknown	No SDS
level P1 North										
AGAR Escalator Cleaner	Unk	Unk	Unk	Unk	5L	SST2 (Cleaners Store)	Unknown	Unknown	Unknown	No SDS
Vira San All Surface Disinfectant	Unk	Unk	Unk	Unk	5L	SST2 (Cleaners Store)	Unknown	Unknown	Unknown	No SDS
C&E Tissue Machine Dishwash Liquid	Unk	Unk	Unk	Unk	5L	SST2 (Cleaners Store)	Unknown	Unknown	Unknown	No SDS
Pioneer Eclipse Equinox	Unk	Unk	Unk	Unk	10L	SST2 (Cleaners Store)	Unknown	Unknown	Unknown	No SDS
AGAG Citra Mist	Unk	Unk	Unk	Unk	5L	SST2 (Cleaners Store)	Unknown	Unknown	Unknown	No SDS
Elite Cleaning Solutions Clearclean Glass & Mirror Cleaner	Non Haz	-	-	-	40L	SST2 (Cleaners Store)	Window cleaner	Avoid heat, sparks, open flames and sources of ignition	Splashproof goggles and rubber gloves	21/01/26

HAZARDOUS			RE	GIST	ER			DATE: 19/06/2024			
								REVIEW DATE: 19/06/2025			
SITE: RHODES WATERSID	E SHOPPIN		ITRE, 1	RIDER	BOULEVAR	D, RHODES NSW	1	ASSESSED BY:	NICK BLYTH (WSP)		
Trade Name	Hazardous	DG Class/Sub- Risk	Hazchem Code	Poison Schedule	Max Quantity	Storage Location	Approve Use	Specific Storage Requirements	PPE Requirement	SDS Expiry Date	
Elite Cleaning Solutions Multi Klean	Haz	-	-	-	40L	SST2 (Cleaners Store)	Multipurpose cleaner	Avoid strong acids	Safety glasses and suitable gloves	21/01/26	
Elite Cleaning Solutions Chloroclean	Unk	Unk	Unk	Unk	20L	SST2 (Cleaners Store)	Unknown	Unknown	Unknown	No SDS	
Elite Cleaning Solutions UltraFresh	Non Haz	-	-	-	40L	SST2 (Cleaners Store)	Disinfectant, cleanser and deodoriser	nil	Avoid contact with eyes	1/1/27	
EnviroChemicals Pty White Oil	Haz	-	-	-	20L	SST2 (Cleaners Store)	Stainless steel polish and protector	Incompatible with strong oxidisers and sources of ignition	Avoid contact with eyes	1/1/27	
Pioneer Eclipse Eclipse Neutral	Non Haz	-	-	-	10L	SST2 (Cleaners Store)	Hard surface cleaner concentrate	Do not mix with other chemicals	Chemical resistance gloves and safety glasses	20/4/26	
Elite Cleaning Solutions Disinfectant Lemon	Non Haz	-	-	-	60L	SST2 (Cleaners Store)	Disinfectant and general- purpose cleaner	Avoid heat, sparks, open fames and sources of ignition	Splashproof goggles and rubber gloves	21/1/26	
Elite Cleaning Solutions Uriclean	Unk	Unk	Unk	Unk	20L	SST2 (Cleaners Store)	Unknown	Unknown	Unknown	No SDS	
Elite Cleaning Solutions Eucalyptus Spray Wipe	Unk	Unk	Unk	Unk	20L	SST2 (Cleaners Store)	Unknown	Unknown	Unknown	No SDS	
Elite Cleaning Solutions King Bleach	Haz	8	2X	S5	40L	SST2 (Cleaners Store)	Sanitising process equipment	Incompatible with acids, metals, peroxides and reducing agents	Overalls, chemical goggles, face shield, gloves and rubber boots	1/1/27	
Greenstone Group Solvent Degreaser	Unk	Unk	Unk	Unk	30L	SST2 (Cleaners Store)	Unknown	Unknown	Unknown	No SDS	
Pioneer Eclipse Equinox	Unk	Unk	Unk	Unk	10L	SST2 (Cleaners Store)	Unknown	Unknown	Unknown	No SDS	
AGAR Once Off	Unk	Unk	Unk	Unk	5L	SST2 (Cleaners Store)	Unknown	Unknown	Unknown	No SDS	
AGAR HygieniCLEAN	Unk	Unk	Unk	Unk	5L	SST2 (Cleaners Store)	Unknown	Unknown	Unknown	No SDS	
AGAR Exit	Unk	Unk	Unk	Unk	5L	SST2 (Cleaners Store)	Unknown	Unknown	Unknown	No SDS	
Enviro Chemicals Pty Carpet Wiz	Unk	Unk	Unk	Unk	5L	SST2 (Cleaners Store)	Unknown	Unknown	Unknown	No SDS	

HAZARDOUS CH	FMI	CΔI	RF	GIST	FR			DATE:	19/06/2024		
								REVIEW DATE:	19/06/2025		
SITE: RHODES WATERSIDE S	HOPPIN		ITRE, 1	RIDER	BOULEVAR	D, RHODES NSW		ASSESSED BY:	SSED BY: NICK BLYTH (WSP)		
Trade Name	Hazardous	DG Class/Sub- Risk	Hazchem Code	Poison Schedule	Max Quantity	Storage Location	Approve Use	Specific Storage Requirements	PPE Requirement	SDS Expiry Date	
Elite Cleaning Solutions Graffiti Remover	Haz	3	3Y	\$6	5L	SST2 (Cleaners Store)	Cleaner for removing texta colour	Incompatible with oxidising agents	Safety shoes, gloves, overalls, chemical goggles and respirator	21/1/26	
AGAR Graffiti Remover	Unk	Unk	Unk	Unk	5L	SST2 (Cleaners Store)	Unknown	Unknown	Unknown	No SDS	
Simply Clean Lemon Myrtle Dishwash	Unk	Unk	Unk	Unk	15L	SST2 (Cleaners Store)	Unknown	Unknown	Unknown	No SDS	
Compressed Liquified Carbon Dioxide Gas	Haz	2	Unk	Unk	D	Fan Room 6	Unknown	Unknown	Unknown	No SDS	
Unlabelled Containers	Unk	Unk	Unk	Unk	50L	Fan Room 6	Unknown	Unknown	Unknown	No SDS	
Elite Cleaning Solutions Red Flash Degreaser	Unk	Unk	Unk	Unk	20L	Cleaners Room	Unknown	Unknown	Unknown	No SDS	
Pioneer Eclipse Equinox	Unk	Unk	Unk	Unk	20L	Cleaners Room	Unknown	Unknown	Unknown	No SDS	
Pioneer Eclipse Eclipse Neutral	Non Haz	-	-	-	10L	Cleaners Room	Hard surface cleaner concentrate	Do not mix with other chemicals	Chemical resistance gloves and safety glasses	No SDS	
Peerless Jal Floorstar 2GO	Unk	Unk	Unk	Unk	5L	Cleaners Room	Unknown	Unknown	Unknown	No SDS	
Unlabelled Containers (advised water)	Unk	Unk	Unk	Unk	160L	Cleaners Room	Unknown	Unknown	Unknown	No SDS	
Unleaded Petrol	Unk	Unk	Unk	Unk	10L	Cleaners Room	Unknown	Unknown	Unknown	No SDS	
Momar Mo-Flo	Haz	8	2P		10L	Maintenance Room	Acid drain opener	Avoid bases, alkalis, strong oxidising substances, strong reducing agents, powdered metal, flammable/ combustible material and inorganic nitrates	Rubber gloves and splashproof goggles	No SDS	
Diggers Acetone	Haz	3	2YE	S5	4L	Maintenance Room	Solvent	Incompatible with strong oxidising agents, reducing agents, acids and alkalis. Avoid heat, sparks, open flames and other ignition sources	Safety goggles, solvent resistant gloves and respirator (if required)	No SDS	
Diggers Mineral Turpentine	Haz	3	3Y	-	4L	Maintenance Room	Solvent	Incompatible with strong oxidisers, may attacked some plastics, rubber and coatings	Safety glasses, chemical goggles, chemical protective gloves, safety footwear and overalls	' No SDS	
Vivacity Megapoxy	Unk	Unk	Unk	Unk	8L	Maintenance Room	Unknown	Unknown	Unknown	No SDS	

HAZARDOUS CH	ΞΜΙ	CAL	RE	GIST	ER			DATE: 19/06/2024						
SITE: RHODES WATERSIDE SH	OPPIN	IG CEN	TRE, 1	RIDER I	BOULEVARI	D, RHODES NSW		ASSESSED BY: NICK BLYTH (WSP)						
Trade Name	Hazardous DG Class/Sub- Risk Hazchem Code		Poison Schedule	Max Quantity	Storage Location	Approve Use	Specific Storage Requirements	PPE Requirement						
WD-40Haz2.12YE-275gMaintenance RoomLubricant,		Lubricant, penetrant	Incompatible with strong oxidisers and strong acids. Avoid extreme heat, flames and other ignition sources	Chemical resistant gloves	No SDS									
Petrol	Unk	Unk	Unk	Unk	20L	Maintenance Room	Unknown	Unknown	Unknown					
Diesel		-	-	-	5,020L	Diesel Tank Room	Back-up fuel for power generation	Incompatible with oxidising agents, strong acids and ignition sources	Chemical splash goggles, chemical resistant gloves and overalls					
Level 2														
LPG		2	2YE	-	42 x 8.5kg 7 x 15kg	Loading Dock 3 Gas Store	Energy source in the commercial market	Incompatible with oxidising agents, acids, heat and ignition sources. Avoid heat, sparks and open flames	Safety goggles or face shield, impervious gloves, antistatic coveralls, protective footwear	No SDS				
Fuchs Blanco 68	Unk	Unk	Unk	Unk	20L	Loading Dock 3 Lift Motor Room	Unknown	Unknown	Unknown	No SDS				
Unlabelled Containers	Unk	Unk	Unk	Unk	~5L	Loading Dock 3 Lift Motor Room	Unknown	Unknown	Unknown	No SDS				
Refrigerated Liquid Carbon Dioxide	Haz	2.2	2TE	-	90kg	Loading Dock 4/5 Gas Store	Food applications	Avoid release of gas to atmosphere	Goggles, working gloves, safety shoes and self-contained open-circuit compressed air breathing apparatus	No SDS				
Cleara Liquid Handwash	Unk	Unk	Unk	Unk	25L	Cleaners Store	Unknown	Unknown	Unknown	No SDS				
York Toilet Seat Cleaner	Unk	Unk	Unk	Unk	7.5L	Cleaners Store	Unknown	Unknown	Unknown	No SDS				
Level 4		1	1	1						1				
Cleara Liquid Handwash	Unk	Unk	Unk	Unk	25L	Cleaners Store	Unknown	Unknown	Unknown	No SDS				
York Toilet Seat Cleaner	Unk	Unk	Unk	Unk	9L	Cleaners Store	Unknown	Unknown	Unknown	No SDS				
Level 9														
HydroChem Hydro 360 Haz		8	2X	S5	20L	Cooling tower Enclosure	Biocide used for disinfection of open cooling water recirculation systems	Reacts violently with acids, avoid exposure to light and heat	Safety glasses, PVC gloves and overalls	24/4/25				

HAZARDOUS CHEMICAL REGISTER								DATE: 19/06/2024 REVIEW DATE: 19/06/2025					
Trade Name	Hazardous	DG Class/Sub- Risk	Hazchem Code	Poison Schedule	Max Quantity Storage Location		Approve Use	Specific Storage Requirements	PPE Requirement	SDS Expiry Date			
HydroChem Hydro 375	Haz	5.1/8	1W	-	15kg	Cooling tower Enclosure	Microbicide for use in open cooling water recirculation systems	Incompatible with oxidising materials	Rubber gloves, safety glasses and suitable respirator				
HydroChem Hydro 348	Unk	Unk	Unk	Unk	1L	Cooling tower Enclosure	Unknown	Unknown	Unknown	No SDS			
HydroChem Hydro 256	Haz	8	2X	S6	60L	Cooling tower Enclosure	Biocide for use in open cooling water recirculation systems	Keep away from direct sunlight and sources of heat ignition	PVC gloves and splashproof goggles	8/2/28			
HydroChem Hydro 260X	Haz	8	2X	-	60L	Cooling tower Enclosure	Corrosion and scale inhibitor for cooling water systems	e g Incompatible with strong acids Safety glasses, PVC rubber gloves a		25/8/25			
Level 11					·								
HydroChem Hydro 360	Haz	8	2X	S5	25L	Cooling tower Enclosure	Biocide used for disinfection of open cooling water recirculation systems	Reacts violently with acids, avoid exposure to light and heat	Safety glasses, PVC gloves and overalls	24/4/25			
HydroChem Hydro 260X	Haz	8	2X	-	25L	Cooling tower Enclosure	Corrosion and scale inhibitor for cooling water systems	Incompatible with strong acids	Safety glasses, PVC rubber gloves and splash apron	No SDS			
HydroChem Hydro 256	Haz	8	2X	\$6	15L	Cooling tower Enclosure	Biocide for use in open cooling water recirculation systems	Keep away from direct sunlight and sources of heat ignition	PVC gloves and splashproof goggles 8				

\* SDS Expiry Date: No SDS – Indicates that an SDS was not available on site at the time of the inspection. If the SDS expiry date is bolded this indicates that the SDS has expired.

\*\* Unk/Unknown – Information pertaining to chemical unknown.

# APPENDIX C RISK ASSESSMENT



#### Table 8.1Risk Assessment

				INH		(	CONTROLS	RESIDUAL RISK		
ID	Risk Title	Risk Description	Potential Consequence	Consequence	Likelihood	Risk Rating	Key Controls/Mitigation Strategies	Consequence	Likelihood	Risk Rating
1	Chemical Segregation	Incompatible hazardous chemicals of Class 3 (Flammable Liquid) and Class 8 (Corrosive Substances) were stored without adequate segregation. <b>Location</b> : Level P1 North ST2 Cleaners Store <b>Photo</b> : 1.	Potential fire or explosion, release of toxic, flammable or corrosive gases/fumes or chemical container corrosion.	Moderate	Likely	HIGH (B3)	Current Controls Chemicals stored in original containers. Chemical containers generally appropriately labelled. <b>Recommendation</b> Ensure incompatible chemicals of Class 3 (Flammable Liquid) and Class 8 (Corrosive Substances) are to be kept apart by a minimum of three (3) metres in accordance with <i>AS/NZS 3833:2007 The storage and handling</i> <i>of mixed classes of dangerous goods in packages and intermediate bulk</i> <i>containers</i> and <i>WHS Regulation (NSW) 2017, Clause 356.</i>	Insignificant	Unlikely	LOW (D5)
2	Chemical Segregation	Incompatible hazardous chemicals of Class 5.1 (Oxidising) and Class 8 (Corrosive Substances) were stored without adequate segregation. <b>Location</b> : Level 9 Cooling Tower Enclosure <b>Photo</b> : 2.	Potential fire or explosion, release of toxic, flammable or corrosive gases/fumes or chemical container corrosion.	Moderate	Likely	HIGH (B3)	Current Controls Chemicals stored in original containers. Chemical containers generally appropriately labelled. <b>Recommendation</b> Ensure incompatible chemicals of Class 5.1 (Oxidising) and Class 8 (Corrosive Substances) are to be kept apart by a minimum of three (3) metres in accordance with <i>AS/NZS 3833:2007 The storage and handling</i> <i>of mixed classes of dangerous goods in packages and intermediate bulk</i> <i>containers</i> and <i>WHS Regulation (NSW) 2017, Clause 356</i> .	Insignificant	Unlikely	LOW (D5)
3	First Aid Equipment	Inadequate first aid equipment (plumbed eyewash station) provided for chemical exposure to corrosive chemicals. <b>Location</b> : Level 9 Cooling Tower Enclosure, Level 11 Cooling Tower Enclosure <b>Photo</b> : 3 and 4.	Serious injury due to inadequate / in sufficient first aid facilities. Potential personal injury due to slips, trips and falls.	Moderate	Likely	HIGH (B3)	Current Controls Eyewash bottles (x2) stored within Cooling Tower Enclosure (expiry July 2024). <b>Recommendation</b> Install an emergency eyewash/shower facility connected to the building water supply adjacent the chemical storage area. Emergency eyewash/shower is to be installed in accordance with <i>AS4775:2007</i> <i>Emergency eyewash and shower equipment</i> . Additionally, relocate emergency eyewash bottles closer to chemical storage areas to reduce distance.	Moderate	Moderate	MEDIUM (C3)
4	Gas Cylinder Storage	Inappropriate storage or gas cylinders (no fall protection/unsecured). <b>Location</b> : Level P2 Loading Dock 3 LP Gas Store <b>Photo</b> : 5, 6 and 7.	Potential non-compliance with legislation. Potential personnel and property damage from inappropriately stored cylinders.	Moderate	Likely	HIGH (B3)	<ul> <li>Current Controls</li> <li>'DANGER LP Gas Storage' signage installed to Store.</li> <li>'2.1 Flammable Gas' placards installed to Store.</li> <li>Cylinders stored in lockable cages available within Store t.</li> <li>Recommendation</li> <li>Ensure that gas cylinders are stored in an upright position, chained and afforded appropriate impact protection.</li> </ul>	Moderate	Moderate	MEDIUM (C3)
5	Spill Containment	<ul> <li>Hazardous chemicals not stored within secondary containment.</li> <li>Location: Level P1 ST2 Cleaners Store, Level P1 Cleaners Room, Level 2 Cleaners Store, Level 4 Cleaners Store and Level 2 Loading Dock 3 Lift Motor Room</li> <li>Photo: 8, 9, 10 and 11.</li> </ul>	Potential environmental contamination due to inadequate spill containment. Potential personal injury due to slips, trips and falls.	Moderate	Moderate	MEDIUM (C3)	Current Controls Some chemicals stored at the site were located within secondary containment. Chemicals stored in original container. <b>Recommendation</b> Provide adequate spill containment (e.g. secondary containment) for all chemicals stored on site in accordance with <i>WHS Regulation (NSW) 2017</i> , <i>Clause 357</i> .	Moderate	Unlikely	MEDIUM (D3)
6	Spill Containment	Hazardous chemical containers overhanging secondary spill containment. <b>Location</b> : Level P1, Sprinkler Pump Room <b>Photo</b> : 12 and 13.	Potential environmental contamination due to inadequate spill containment. Potential personal injury due to slips, trips and falls.	Moderate	Moderate	MEDIUM (C3)	Current Controls Secondary containment pallet provided for diesel drum. Spill kit located in room in close proximity. Recommendation Relocate the diesel drum to ensure it is stored in the centre of the provided pallet bund in accordance with WHS Regulation (NSW) 2017, Clause 357.	Moderate	Unlikely	MEDIUM (D3)

				INH		ĸ	CONTROLS	RES		ĸ
I	D Risk Title	Risk Description	Potential Consequence	Consequence	Likelihood	Risk Rating	Key Controls/Mitigation Strategies	Consequence	Likelihood	Risk Rating
	7 Chemical Container Labelling	Chemical containers not labelled. <b>Location</b> : Level P1, Sprinkler Pump Room, Level P1 Cleaners Room, Loading Dock 3 Lift Motor. <b>Photo</b> : 14, 15 and 16.	Personnel injury or poisoning due to unknown contents of chemical containers. Potential non-compliance with legislation.	Moderate	Likely	HIGH (B3)	Current Controls Chemicals stored in original containers. Chemical containers generally appropriately labelled. <b>Recommendation</b> All containers that hold a hazardous chemical, including containers in which substances are decanted, must be appropriately labelled in accordance with the <i>WHS Regulation 2017 (NSW), Clauses 341 and 342</i> . As a minimum labels should clearly identify the substance, include the Australian address and phone number of the manufacturer/importer, proportion of ingredients and provide basic health and safety information about the substance, including any signal words, relevant hazard and precautionary statements and hazard pictograms. Alternatively, appropriately dispose of unlabelled chemicals.	Moderate	Unlikely	MEDIUM (D3)
	8 Safety Data Sheets	Missing and out of date Safety Data Sheets (SDS) at chemical storage locations. <b>Location</b> : Throughout, All Storage Locations <b>Photo</b> : 17 and 18.	Personnel injury due to delayed access to emergency response information.	Moderate	Unlikely	MEDIUM (D3)	Current Controls Some chemicals at the site had current SDS available at the point of use/storage. Recommendation Obtain current (i.e. within 5 years from issue date) SDS for hazardous chemicals on site. Ensure copies of the SDS are located at the point of use/storage of the hazardous chemical to ensure that they are 'readily accessible' in accordance with WHS Regulation 2017 (NSW), Clause 344 and Schedule 7.	Minor	Unlikely	LOW (D4)
	9 Spill Kits	Spill kit not appropriately maintained and used as a rubbish bin. <b>Location</b> : Level P1 Sprinkler Pump Room <b>Photo</b> : 19 and 20.	Potential environmental contamination due to inadequate spill containment. Potential personal injury due to slips, trips and falls. Potential property damage and serious injury due to mixing of incompatible chemicals.	Moderate	Moderate	MEDIUM (C3)	Current Controls Spill kits observed to be adequately stocked and signposted at most chemicals storage locations. <b>Recommendation</b> Provide adequate spill containment provisions (e.g. spill kit) for all chemicals stored on site and ensure the spill kit is appropriately maintained (e.g. not used as a rubbish bin) in accordance with WHS Regulation (NSW) 2017, Clause 357.	Moderate	Unlikely	MEDIUM (D3)
	0 Signage	<ul> <li>Hazardous chemical storage locations not clearly signposted.</li> <li>Location: Level P1 ST7, Level P1 ST2 Cleaners Store, Level 4 Cleaners Store, Level 9 Cooling Tower Enclosure, Level 11 Cooling Tower</li> <li>Enclosure</li> <li>Photo: 21, 22 and 23.</li> </ul>	Unidentified hazardous chemical storage locations.	Minor	Unlikely	LOW (D4)	Current Controls 'Danger Diesel Fuel' signage installed to locations where diesel is stored. Recommendation Install 'Hazardous Chemical' warning signage to clearly identify chemical storage locations throughout the site in accordance with WHS Regulation (NSW) 2017, Clause 353.	Insignificant	Unlikely	LOW (D5)

# APPENDIX D PHOTOGRAPHS







Photo 7.

Inappropriate storage or gas cylinders to Level Photo 8. P2 Loading Dock 3 LP Gas Store.

Hazardous chemicals not stored within secondary containment to Level P1 ST2 Cleaners Store.





 Photo 9.
 Hazardous chemicals not stored within secondary containment to Level P1 Cleaners Room.
 Photo 10.
 Hazardous chemicals not stored within secondary containment to Level P1 Cleaners







#### **ABOUT US**

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