



SAFETY DATA SHEET
RS.DISINFECTANT.500 Ramsol Disinfectant Spray

SECTION 1: Identification: Product identifier and chemical identity

Product identifier

Product name RS.DISINFECTANT.500 Ramsol Disinfectant Spray

Relevant identified uses of the substance or mixture and uses advised against

Application Aerosol Spray Adhesive

Details of the supplier of the safety data sheet

Supplier Quin Global PTY LTD
63 Hincksman Street
Queanbeyan NSW 2620
(02) 6175 0574
info@quin-global.com.au

Emergency telephone number

Emergency telephone National Poison Line AU 13 11 26 National Poison Centre NZ 0800 766 764

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

Physical hazards Flam. Gas 2 - H221 Flam. Liq. 2 - H225

Health hazards Eye Irrit. 2A - H319

Environmental hazards Not Classified

Human health The liquid may be irritating to eyes, respiratory system and skin. Symptoms following overexposure may include the following: Headache. Dizziness. Nausea, vomiting.

Label elements

Hazard pictograms



Signal word DANGER

Hazard statements H221 Flammable gas.
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.

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Precautionary statements	P210 Keep away from heat/ sparks/ open flames/ hot surfaces. - No smoking.
	P233 Keep container tightly closed.
	P240 Ground/ bond container and receiving equipment.
	P241 Use explosion-proof electrical equipment.
	P242 Use only non-sparking tools.
	P243 Take precautionary measures against static discharge.
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P337+P313 If eye irritation persists: Get medical advice/ attention.
	P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction.
	P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
	P381 Eliminate all ignition sources if safe to do so.
	P403+P235 Store in a well-ventilated place. Keep cool.
	P501 Dispose of contents/ container in accordance with national regulations.

Other hazards

This product does not contain any substances classified as PBT (persistent, bioaccumulative and toxic) or vPvB (very persistent and very bioaccumulative).

SECTION 3: Composition and information on ingredients

Mixtures

ETHANOL		60-100%
CAS number: 64-17-5		
Classification		
Flam. Liq. 2 - H225		
BUTANE		20-30%
CAS number: 106-97-8		
Classification		
Flam. Gas 1 - H220		
Press. Gas		
Not classified substance		5-10%
CAS number: —		
Classification		
Not Classified		

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

Description of first aid measures

General information	Remove affected person from source of contamination. Place unconscious person on their side in the recovery position and ensure breathing can take place. Get medical attention if any discomfort continues.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention.

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Ingestion	Get medical attention immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Only remove contact lenses if the person is conscious, coherent and they can remove them themselves. Continue to rinse for at least 15 minutes. If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.

Most important symptoms and effects, both acute and delayed

Inhalation	May cause coughing and difficulties in breathing. May cause eye and respiratory system irritation. Overexposure may depress the central nervous system, causing dizziness and intoxication.
Ingestion	May be fatal if swallowed and enters airways. Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract. Nausea, vomiting. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
Skin contact	Dryness and/or cracking.
Eye contact	Causes serious eye irritation.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture

Specific hazards	Pressurized container: Must not be exposed to temperatures above 50°C. Containers can burst violently or explode when heated, due to excessive pressure build-up. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.
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Advice for firefighters

Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
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SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	For personal protection, see Section 8. No smoking, sparks, flames or other sources of ignition near spillage.
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Environmental precautions

Environmental precautions	Avoid discharge into drains. Contain spillage with sand, earth or other suitable non-combustible material.
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Methods and material for containment and cleaning up

Methods for cleaning up	Stop leak if possible without risk. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Avoid the spillage or runoff entering drains, sewers or watercourses. Absorb in vermiculite, dry sand or earth and place into containers. Wash thoroughly after dealing with a spillage.
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SECTION 7: Handling and storage, including how the chemical may be safely used

Precautions for safe handling

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Usage precautions	Avoid contact with skin and eyes. Keep away from heat, sparks and open flame. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level. Container must be kept tightly closed when not in use. Use explosion proof electric equipment. Avoid discharge into drains or watercourses or onto the ground.
Advice on general occupational hygiene	Do not eat, drink or smoke when using this product.
Conditions for safe storage, including any incompatibilities	
Storage precautions	Keep away from heat, sparks and open flame. Keep container tightly closed. Keep only in the original container. Pressurized container: Must not be exposed to temperatures above 50°C.
Specific end use(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.

SECTION 8: Exposure controls and personal protection

Exposure controls

Protective equipment



Appropriate engineering controls

This product must not be handled in a confined space without adequate ventilation. Avoid inhalation of vapours and spray/mists. As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.

Eye/face protection

Wear chemical splash goggles.

Hand protection

Use protective gloves.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

Respiratory protection

Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. If exposure levels are likely to be exceeded, use a full face mask fitted with an organic AXP3 filter for short term low level exposures. For long term or high level exposures, compressed airline breathing apparatus should be used.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Aerosol.
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SECTION 10: Stability and reactivity

Stability	Stable at normal ambient temperatures and when used as recommended.
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Conditions to avoid	Avoid heat, flames and other sources of ignition. Avoid contact with the following materials: Oxidising agents. Reducing agents.
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Hazardous decomposition products

Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrogen chloride (HCl). Nitrous gases (NO_x).

SECTION 11: Toxicological information
SECTION 12: Ecological information
SECTION 13: Disposal considerations
Waste treatment methods
Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information
UN number

UN No. (ADG) 1950

UN No. (IMDG) 1950

UN No. (ICAO) 1950

UN proper shipping name

Proper shipping name (ADG) AEROSOLS

Proper shipping name (IMDG) AEROSOLS

Proper shipping name (ICAO) AEROSOLS

Transport hazard class(es)

ADG class 2.1

ADG classification code 5F

ADG label 2.1

IMDG class 2.1

ICAO class/division 2.1

Transport labels

Packing group

ADG packing group None

IMDG packing group None

ICAO packing group None

Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

Special precautions for user

EmS F-D, S-U

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Transport in bulk according to Not applicable.
Annex II of MARPOL 73/78
and the IBC Code

SECTION 15: Regulatory information**Safety, health and environmental regulations/legislation specific for the substance or mixture**

National regulations	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).
Guidance	CHIP for everyone HSG228. Workplace Exposure Limits EH40. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131.

SECTION 16: Any other relevant information

Revision date	26/03/2020
Revision	5
Supersedes date	26/03/2020
SDS No.	23141
Hazard statements in full	H220 Extremely flammable gas. H221 Flammable gas. H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation.

DIRECTIONS FOR USE**PRODUCT LOGO**

The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. The manufacturer MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. Given the variety of factors that can affect the use and application of this product, many of which are solely within the user's knowledge and control, the user is responsible for determining whether the usage of this product is fit for a particular purpose and suitable for the user's method of use or application. It is essential that the user, not the manufacturer, evaluates this product to determine whether it is fit for a particular purpose and suitable for the user's method of use or application.

Hazardous Chemicals (Hazardous Products, Materials, Substances and Dangerous Goods) Procedure

DOCUMENT HISTORY

Revision Number	Reason for Change	Date	Revised by
1	Original distribution	15/08/23	WHS Practitioner

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OVERVIEW

This procedure forms part of the TipTop Construction Environment Health and Safety Management System.

The purpose of this procedure is to outline the TipTop Construction requirements for selection, storage and use of products or substances that are classified as hazardous chemicals including hazardous products, materials, substances or dangerous goods. Potential exists for injury, ill-health or environmental impact if these chemicals are not packaged, stored, handled, decanted, used or disposed of correctly.

This procedure applies to all TipTop Construction workplaces withing Queensland.

This procedure has been developed in accordance with legislative requirements, including Queensland's Work Health and Safety Regulation 2011 Regulation 348 and Schedule 11, 12 and 13.

RELATED DOCUMENTS

The related documents available for use in conjunction with this procedure are as follows:

TipTop Construction

- EHS Risk Management Procedure
- Exposure Monitoring and Health Surveillance Procedure
- Emergency Response Procedure
- Incident Reporting and Management Procedure
- Risk and Opportunity Management Procedure
- Impacts & Hazards Risk Assessment Template
- Hazardous Chemicals Register
- Hazardous Chemicals (Hazardous Products, Materials, Substances or Dangerous Goods) Management Sub Plan.
- Workplace Delivery Code

Legislation

- WHS/OHS legislation.
- Australian Standard 1940: 2017 Storage and handling of flammable and combustible liquids
- Australian Standard 1319:1994 Safety signs for the occupational environment
- Australian Standard 3780: 2008 The storage and handling of corrosive substances
- Australian Standard 3833: 2007 The storage and handling of mixed classes of dangerous goods, in packages and intermediate bulk containers
- Australian Code for the Transport of Dangerous Goods by Road and Rail (Edition 7.6, Mandatory from 1 July 2019)
- Labelling of Workplace Hazardous Chemicals – Model Code of Practice (Safe Work Australia)
- Preparation of Safety Data Sheets for Hazardous Chemicals – Model Code of Practice (Safe Work Australia)
- Managing Risks of Hazardous Chemicals in the Workplace – Model Code of Practice (Safe Work Australia)
- Workplace exposure standards for airborne contaminants (Safe Work Australia: currently under review)
- Hazardous Chemical and Information System (Safe Work Australia)
- How to Safely Remove Asbestos – Model Code of Practice
- How to Manage and Control Asbestos in the Workplace – Model Code of Practice

DEFINITIONS

Hazardous Chemicals: Hazardous chemical is the name given to a group of chemicals classified as hazardous for use at workplaces. It includes any substance, mixture or article that satisfies the criteria for a hazard class in the Globally Harmonized System (GHS) for the classification and labelling of chemicals. (*Safework Australia Code of Practice 2018*) The term Hazardous Chemicals refers to hazardous products, materials, substances and dangerous goods.

Hazardous Substances: A substance that following exposure, can have an adverse effect on health. A substance is deemed to be a hazardous substance if it meets the classification criteria specified in the Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004)]

Dangerous Goods: Dangerous goods is the name given to a group of chemicals and articles classified as dangerous for transport by road, rail or sea. It includes substances, mixtures or articles that, because of their physical, chemical (physicochemical) or acute toxicity properties, present an immediate hazard to people, property or the environment e.g., explosives, flammable liquids and gases, corrosives, chemically reactive or acutely (highly) toxic substances.

SELECTION OF MATERIALS

When considering the use of any product, material or substance including a chemical, fuel or gas, the potential environment, health and safety risks associated with storage, use and disposal are to be considered as well as the availability of an alternative less hazardous or non-hazardous product.

Where an alternative less hazardous or non-hazardous product is not practicable the risks associated with the use of the product, material or substance must be controlled in accordance with this procedure.

Materials prohibited by the provisions of WHS legislation shall not be considered for use at any TipTop Construction workplace.

ASSESSMENT

Once a product, material or substance has been selected, the nominated person responsible for the work shall implement the following control measures to minimise the likelihood of injury, illness or harm to the environment resulting from its use:

- A Safety Data Sheet (SDS) that is less than 5 years old and is provided in a format compliant with the code of practice for the Preparation of Safety Data Sheets for Hazardous Chemicals is to be provided for all products or substances to identify hazards, storage and other precautionary requirements.
- If the SDS identifies the product or substance as hazardous, a risk assessment is to be undertaken by completing the Hazardous Chemicals Register.
- Those persons that will use or handle the product, material or substance identified as hazardous or dangerous are to be provided training in the precautions for storage, use, disposal and transport, and the personal protective requirements as outlined in the SDS. The risk assessment detailed above, or an equivalent subcontractor risk assessment and a record of the training are to be available at the workplace.
- All hazardous chemicals including hazardous products, materials, substances and dangerous goods must display labelling complying with the Globally Harmonised System of Classification and Labelling

of Chemicals. Refer to the SafeWork Australia Labelling of Workplace Hazardous Chemicals Code of Practice for information on requirements and legislative requirements. In addition:

- o The label is to remain intact and not be defaced, modified or altered in any way.
- o Any hazardous chemical including hazardous product, material, substance or dangerous good, decanted and not used immediately is to be labelled with the brand name, product/trade name, United Nations number (UN Number) Hazchem Code and the risk and safety phrases.
- o Special requirements for the handling, use and storage of the product, material or substance or dangerous good, specified in the SDS (e.g. first aid treatment, special types of personal protective equipment (PPE), special precautions for use or spill containment and clean-up information) are to be the subject of a formal Tool Box Talk or training with the user(s) and the precautions for handling, use and storage are to be listed in any SWMS used by the workers who will use the product or substance or related Tool Box Talk.

Note: where a hazardous chemical (hazardous product, material or substance or dangerous good) is decanted or transferred by any means from one package into another, the precautions outlined in the product or substance SDS shall be followed. The new package must be labelled as per the original packaged hazardous chemical and the container must be of suitable material and in sound condition.

PRODUCT & SUBSTANCE REGISTER

All hazardous chemicals (hazardous products, materials, substances and dangerous goods) stored or in use at TipTop Construction workplaces must be registered by the Workplace Manager or nominated representative on the Hazardous Chemicals Register.

All Safety Data Sheets are to be centrally located to enable timely access to first aid treatment information, e.g., at a first aid facility or other centralised location or at the storage area in hard copy or readily accessible electronic copy. The issue date of Safety Data Sheets must not exceed 5 years.

STORAGE

Hazardous chemicals (hazardous products, materials, substances and dangerous goods) are to be stored in secure well-ventilated areas with relevant placards and warning signage attached. Liquid materials are to be stored in bunded areas of suitable construction and size.

Placards and signage must comply with the requirements of the relevant State/Territory legislation and Australian standards listed within the 'Related Documents' section above and summarised in Appendix Three.

The compatibility of stored products, materials substances and dangerous goods must be assessed to prevent interactions that may result in harm to persons, property or the environment due to fire, explosion, corrosion or the release of vapours. **Appendix One** contains a Storage Compatibility Chart and identifies where segregation or consultation with the Regional EHS Manager may be required. Small, packaged liquids should not be stored above solids.

Placards must be provided on storage areas where the quantities stored on site exceed relevant State/Territory legislation. **Appendix Two** provides a list of legislative instruments that regulate the storage of hazardous chemicals

including hazardous products, materials, substances and dangerous goods.

Appendix Three provides additional information on State/Territory WHS requirements for placards on storage areas.

Storage of dangerous goods that 'exceed' manifest quantities as outlined in relevant State/Territory legislation require the workplace to be licensed with the relevant Regulator. To minimise workplace risk and eliminate the need for licensing, except in exceptional circumstances, it is a requirement that maximum volumes of hazardous substance and dangerous goods do not exceed those quantities outlined in the relevant legislation.

Appendix Four provides a summary of Australian Standard requirements for the minor' storage of flammable and combustible liquids, mixed classes of dangerous goods and corrosive substances.

Note: Storage of Dangerous Goods in quantities that require licensing of the workplace is only undertaken in consultation with the Regional EHS Manager and Head of Environment, Health and Safety Australia. Where such quantities exist, the hazards and risks must be outlined in the project/workplace Impacts and Hazards Risk Assessment and separate management sub-plan developed as part of the Project EHS Management Plan.

HEALTH MONITORING

Refer to the Exposure Monitoring and Health Surveillance Procedure.

APPENDIX ONE – COMPATIBILITY STORAGE CHART

HAZARDOUS SUBSTANCES AND DANGEROUS GOODS STORAGE CHART*														
CLASS OF HAZARDOUS SUBSTANCE OR DANGEROUS GOOD AND SUBSIDIARY RISK			GASES UNDER PRESSURE				FLAMMABLE LIQUIDS	FLAMMABLE SOLIDS			OXIDISING		TOXIC	CORROSIVE
			2.1	2.2	2.2 Sub-Risk 5.1	2.3	3	4.1	4.2	4.3	5.1	5.2	6	8
														
	2.1 FLAMMABLE GASES		OK TO STORE TOGETHER	OK TO STORE TOGETHER	SEGREGATE AT LEAST 3M	SEGREGATE AT LEAST 3M	SEGREGATE AT LEAST 5M	SEGREGATE AT LEAST 5M	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	SEGREGATE AT LEAST 3M	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	SEGREGATE AT LEAST 5M
	2.2 NON-FLAMMABLE/ NON-TOXIC GASES		OK TO STORE TOGETHER	OK TO STORE TOGETHER	OK TO STORE TOGETHER	OK TO STORE TOGETHER	SEGREGATE AT LEAST 5M	SEGREGATE AT LEAST 5M	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	SEGREGATE AT LEAST 3M	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	SEGREGATE AT LEAST 5M
	2.2 NON-FLAMMABLE/ NON-TOXIC GASES SUB-RISK 5.1		SEGREGATE AT LEAST 3M	OK TO STORE TOGETHER	OK TO STORE TOGETHER	SEGREGATE AT LEAST 3M	SEGREGATE AT LEAST 5M	SEGREGATE AT LEAST 5M	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	SEGREGATE AT LEAST 3M	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	SEGREGATE AT LEAST 5M
	2.3 TOXIC GAS		SEGREGATE AT LEAST 3M	OK TO STORE TOGETHER	SEGREGATE AT LEAST 3M	MAY NOT BE COMPATIBLE CHECK SDS	SEGREGATE AT LEAST 5M	SEGREGATE AT LEAST 5M	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	SEGREGATE AT LEAST 3M	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	SEGREGATE AT LEAST 5M
	3 FLAMMABLE LIQUIDS		SEGREGATE AT LEAST 5M	SEGREGATE AT LEAST 5M	SEGREGATE AT LEAST 5M	SEGREGATE AT LEAST 5M	OK TO STORE TOGETHER	SEGREGATE AT LEAST 3M	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	SEGREGATE AT LEAST 5M	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	SEGREGATE AT LEAST 3M
	4.1 FLAMMABLE SOLID		SEGREGATE AT LEAST 5M	SEGREGATE AT LEAST 5M	SEGREGATE AT LEAST 5M	SEGREGATE AT LEAST 5M	SEGREGATE AT LEAST 3M	OK TO STORE TOGETHER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	SEGREGATE AT LEAST 5M	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	MAY NOT BE COMPATIBLE CHECK SDS
	4.2 SPONTANEOUSLY COMBUSTIBLE		DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER
	4.3 DANGEROUS WHEN WET		DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER
	5.1 OXIDISING AGENT		SEGREGATE AT LEAST 3M	SEGREGATE AT LEAST 3M	SEGREGATE AT LEAST 3M	SEGREGATE AT LEAST 3M	SEGREGATE AT LEAST 5M	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	MAY NOT BE COMPATIBLE CHECK SDS	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	SEGREGATE AT LEAST 3M
	5.2 ORGANIC PEROXIDE		DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	SEGREGATE AT LEAST 3M
	6 TOXIC SUBSTANCES		DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	SEGREGATE AT LEAST 5M
	8 CORROSIVE SUBSTANCES		SEGREGATE AT LEAST 5M	SEGREGATE AT LEAST 5M	SEGREGATE AT LEAST 5M	SEGREGATE AT LEAST 5M	SEGREGATE AT LEAST 3M	MAY NOT BE COMPATIBLE CHECK SDS	DISCUSS WITH REGIONAL EHS MANAGER	DISCUSS WITH REGIONAL EHS MANAGER	SEGREGATE AT LEAST 3M	SEGREGATE AT LEAST 3M	SEGREGATE AT LEAST 5M	MAY NOT BE COMPATIBLE CHECK SDS

APPENDIX TWO – HARMONISED STATE/TERRITORY PLACARD REQUIREMENTS FOR STORAGE AREAS

Work Health and Safety Regulation: Schedule 11: Placard and manifest quantities

Column 1	Column 2	Column 3	Column 4	ADG Code Classification
Item	Description of hazardous chemical	Description of hazardous chemical	Placard quantity	
	Hazard Class (GHS)	Hazard Category		
1	Flammable gases	Category 1	200L	2.1
2	Gases under pressure	With acute toxicity, categories 1, 2, 3 or 4	50L	2.3
3		With skin corrosion categories 1A, 1B or 1C	50L	2.3
4		Aerosols	5,000L	2.1 or 2.2
5		Not specified elsewhere in this Table	1,000L	2.2
6	Flammable liquids	Category 1	50L	3 (PG I)
7		Category 2	250L	3 (PG II)
8		Category 3	1,000L	3 (PG III)
9		Any combination of chemicals from Items 6 to 8 where none of the items exceeds the quantities in columns 4 or 5 on their own	1,000L	
10		Category 4	10,000L	
11	Self-reactive substances	Type A	5kg or 5L	
12		Type B	50kg or 50L	4.1 (Type B)
13		Type C to F	250kg or 250L	4.1 (Type C-F)
14	Flammable solids	Category 1	250kg	4.1 (PG II)
15		Category 2	1,000kg	4.1 (PG III)
16		Any combination of chemicals from Items 12 to 15 where none of the items exceeds the quantities in columns 4 or 5 on their own	1,000kg or 1,000L	
17	Pyrophoric liquids and pyrophoric solids	Category 1	50kg or 50L	4.2 (PG I)
18	Self-heating substances and mixtures	Category 1	250kg or 250L	4.2 (PG II)
19		Category 2	1,000kg or 1,000L	4.2 (PG III)
20		Any combination of chemicals from Items 17 to 19 where none of the items exceeds the quantities in columns 4 or 5 on their own	1,000kg or 1,000L	
21	Substances which in contact with water emit flammable gas	Category 1	50kg or 50L	4.3 (PG I)
22		Category 2	250kg or 250L	4.3 (PG II)
23		Category 3	1,000kg or 1,000L	4.3 (PG III)
24		Any combination of chemicals from Items 21 to 23 where none of the items exceeds the quantities in columns 4 or 5 on their own	1,000kg or 1,000L	
25	Oxidising liquids and oxidising solids	Category 1	50kg or 50L	5.1 (PG I)
26		Category 2	250kg or 250L	5.1 (PG II)
27		Category 3	1,000kg or 1,000L	5.1 (PG III)
28		Any combination of chemicals from Items 25 to 27 where none of the items exceeds the quantities in columns 4 or 5 on their own	1,000kg or 1,000L	
29	Organic peroxides	Type A	5kg or 5L	
30		Type B	50kg or 50L	5.2 (Type B)
31		Type C to F	250kg or 250L	5.2 (Type C-F)

32		Any combination of chemicals from Items 30 and 31 where none of the items exceeds the quantities in columns 4 or 5 on their own	250kg or 250L	
33	Acute toxicity	Category 1	50kg or 50L	6.1 (PG I)
34		Category 2	250kg or 250L	6.1 (PG II)
35		Category 3	1,000kg or 1,000L	6.1 (PG III)
36		Any combination of chemicals from Items 33 to 35 where none of the items exceeds the quantities in columns 4 or 5 on their own	1,000kg or 1,000L	
37	Skin corrosion	Category 1A	50kg or 50L	8 (PG I)
38		Category 1B	250kg or 250L	8 (PG II)
39		Category 1C	1,000kg or 1,000L	8 (PG III)
40	Corrosive to metals	Category 1	1,000kg or 1,000L	8 (PG III)
41		Any combination of chemicals from Items 37 to 40 where none of the items exceeds the quantities in columns 4 or 5 on their own	1,000kg or 1,000L	
42	Unstable explosives		5kg or 5L	
43	Unstable chemicals	Any combination of chemicals from items 11, 29 and 42 where none of the items exceeds the quantities in columns 4 or 5 on their own	5kg or 5L	

Notes

1 In item 2, Gases under pressure with acute toxicity, category 4 only applies up to a LC50 of 5000 ppmV. This is equivalent to dangerous goods of Division 2.3.

2 Item 4 includes flammable aerosols.

Determination of classification of flammable liquids

For the purposes of this table, if a flammable liquid category 4 is used, handled or stored in the same spill compound as one or more flammable liquids of category 1, 2 or 3, the total quantity of flammable liquids category 1, 2 or 3 must be determined as if the flammable liquid category 4 had the same classification as the flammable liquid in the spill compound with the lowest flash point.

Example.

For placarding and manifest purposes, a spill compound containing 1000L of flammable liquid category 1 and 1000L of flammable liquid category 4 is considered to contain 2000L of flammable liquid category 1.

APPENDIX THREE SUMMARY OF AUSTRALIAN STANDARD REQUIREMENTS FOR 'MINOR' STORAGE

Australian Standard 1940 - The storage and handling of flammable and combustible liquids

Minor Storage

Where quantities of dangerous goods do not exceed the following volumes, they are covered by the requirements of the minor storage precautions:

Flammable Liquids		Combustible Liquids C1, C2	Manufactured Products
PG I or PG II	PG III		
500 L	5000 L	10 000 L	Flammable products: 10,000L, of which no more than 2,000L are PG II, provided that storage is closed packages, not to be opened except for tinting paint for immediate use

The packing group of a Dangerous Good can be determined by referring to Section 14 of the SDS.

Storage Considerations

Flammable liquids of PG I, in containers larger than 2.5L, shall not be kept in minor storage unless they are essential for daily operations and handled only by trained personnel.

Where there are multiple minor storage areas on the same premises, such storages shall be separated by a distance of at least:

- 20m, if they are indoors; or
- 15m, if they are outdoors.
- This distance shall be measured from the outermost package or tank in the minor storage.

If two or more buildings are separated by at least 5m of open space (i.e. an area without a roof and accessible for firefighting at all times), or by a concrete or double-brick wall capable of preventing the spread of a fire, a separate indoor minor storage quantity may be applied to each building.

A minor storage shall be separated from any other store of flammable and/or combustible liquids that is larger than minor storage by the greater of:

- the distance to an on-site protected place (as described in the Standard); or
- at least 5m;
- This requirement does not apply to storage cabinets having a maximum capacity of 250L.

Precautions for Minor Storage:

Liquids shall not be for sale or commercial distribution.

- Liquids shall be kept at least 1m away from any boundary, workshop, dwelling or protected place, body of water, watercourse or environmentally sensitive area.
- The ground around the store shall be kept clear of combustible vegetation or refuse for a distance of at least 3m.

- Any potential flow of spillage shall be controlled by bunding of the minor store which is capable of containing 110% of the volume of the largest package/container size.
- All spills and leaks shall be cleaned up immediately. Any waste shall be disposed of safely and in accordance with the local regulations.
- AS/NZS 2430.3.3 shall be consulted for hazardous atmosphere zoning if the volume of flammable liquids exceeds:
 - 100L in closed containers;
 - 25L for decanting purposes, e.g. petrol transfer to a motor vehicle or lawn mower;
 - 5L in open containers for occasional use; or
 - 1L in open containers for continuous use.
- There shall be no ignition sources in any space in which a flammable mixture of vapour and air could be present.
- At premises where more than 100L of flammable liquids, or more than 1,000L of combustible liquids are stored, or where flammable liquids are decanted, the following requirements apply:
 - At least one portable fire extinguisher, having a suitable rating for use with the range of materials being kept, shall be readily accessible and adjacent to the minor storage area.
 - Where liquids are stored on open land, a fire extinguisher shall be provided if the liquids are decanted or transferred within 5 m of the storage.
- In areas where flammable liquids are decanted, a sign bearing the following words shall be displayed:
DANGER - FLAMMABLE LIQUIDS - NO SMOKING - KEEP FIRE AWAY
Note: Signs should comply with AS 1319.
- Any tank that is intended for the storage of flammable or combustible liquid shall comply with AS 1692 or other appropriate specification. A Category 1 tank shall not be used for flammable liquid.
- Tanks shall be inspected and maintained regularly.

Non-Minor Storage:

Where quantities of flammable and combustible exceed the volumes in the preceding section, the remaining requirements of AS1940 must be met.

Australian Standard 3780 - The storage and handling of corrosive substances

Minor Storage:

Where quantities of dangerous goods do not exceed the following volumes, they are covered by the requirements of the minor storage precautions:

	Packing Group I	Packing Group II	Packing Group III	Combustible Liquids
Total Quantity of all Dangerous Goods	25kg or l	250kg or l	1,000kg or l	1,500kg or l

The packing group of a Dangerous Good can be determined by referring to Section 14 of the SDS.

The maximum amount of each packing group type may be stored in one minor storage location and still comply with the requirements of this part.

The total amount of dangerous goods kept shall not exceed one minor store per 500m² of floor or ground area. Where the floor or ground area exceeds 500m², minor stores shall be at least 10m apart.

Precautions for Minor Storage:

- Any materials that are incompatible, or might react dangerously if mixed, shall be segregated so that the possibility of reaction is minimised.
- The storage area shall be away from any heating or ignition sources.
- The storage area shall be provided with adequate natural or mechanical ventilation, depending on the nature of the substances and the circumstances of their use.
- Packages shall be kept closed when not in use. Packages should only be opened in a well-ventilated area and if their contents are flammable, away from any potential ignition source.
- Packages should be stored in such a manner that leaks cannot affect other substances in the store. Liquids should not be stored above powders and solids. Liquids in glass bottles should be stored at lower levels.
- Appropriate spill control measures shall be provided where packages are opened and their contents transferred.
- Any spills or leaks shall be cleaned up immediately and disposed of in accordance with spill response procedures.
- Contaminated, spilled or leaked material shall not be returned to its original packaging, except for disposal where it is known that this will not increase the risk.
- The transfer of dangerous goods from the store to the point of use shall be carried out in a manner that minimises the possibility of spillage or fire.
- Dangerous goods shall not be stored or handled where they could hinder escape from a building in the event of a fire.
- Persons who handle any dangerous goods shall be informed and aware of the hazards involved.
- Packages shall be kept in such a manner as to avoid spillage.
- Stores shall be kept clear of combustible matter and refuse.
- Packages shall be kept on surfaces that are resistant to attack by their contents if spilt.
- Appropriate personal protective equipment shall be worn by personnel involved in product transfer or clean-up operations.
- A fire extinguisher of suitable type shall be installed at each minor store. It shall be located so that it is immediately accessible in an emergency, along an exit route.
- A supply of water shall be available at a nearby location, for personal hygiene.
- The ground around the storage area shall be kept clear of combustible vegetation and refuse by at least 3 metres.
- Any potential flow of spillage shall be controlled by bunding of the minor store which is capable of containing 110% of the volume of the largest package/container size.
- The store shall be separated from any protected place or property boundary by at least 3 metres.

Non-Minor Storage:

Where quantities of dangerous goods exceed the volumes in the preceding section, the remaining requirements of AS3833 must be met; the requirements of Australian Standard 1940 Storage and Handling of Flammable and Combustible Liquids will also need to be considered.

SAFE OPERATING PROCEDURE

Ramsol Disinfectant Spray

SOP No: 1

Version No: 1

Review date: 10/05/23

DESCRIPTION OF WORK PROCESS:

Ramsol Disinfectant Spray is a 500ml aerosol used in the workplace's indoor kitchen area as a surface disinfectant.

POTENTIAL HAZARDS:

- Flammable gas
- Highly flammable liquid and vapour
- Causes serious eye irritation

PERSONAL PROTECTIVE EQUIPMENT

	Wear chemical splash goggles.		Use protective gloves.		Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.
	Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.		Maintain personal hygiene throughout work processes		

PRE-OPERATIONAL SAFETY CHECKS/ SPECIAL HANDLING AND STORAGE REQUIREMENTS

Precautions for use:

- Ensure you have the SDS available at all times
- Keep away from heat, sparks and open flame
- Avoid contact with skin and eyes
- Provide adequate ventilation.
- Avoid inhalation of vapours.
- Use approved respirator if air contamination is above an acceptable level.
- Container must be kept tightly closed when not in use.
- Use explosion proof electric equipment.
- Avoid discharge into drains or watercourses or onto the ground.
- Do not eat, drink or smoke when using this product.

Store it safely:

- Keep away from heat, sparks and open flame.
- Keep container tightly closed.
- Store only in the original container.
- As the container is pressurised, it must not be exposed to temperatures above 50°C.

Ensure ALL hazards are controlled at all times through good work practice

- **DO NOT USE** in confined space without adequate ventilation.
- Process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.
- Use the PPE outlined above
- **DO NOT SMOKE IN THE WORK AREA**
- Must not be exposed to temperatures above 50°C. Containers can burst violently or explode when heated, due to excessive pressure build-up
- WHS Regulation Section 49 stated Lendlease has the responsibility for ensure exposure standards for substances and mixtures are not exceeded. Air monitoring may be necessary to ensure that workers are not exposed to airborne concentrations above the chemical's exposure standard.

STEP BY STEP WORK PROCEDURE

Aerosol

- **Only use this product under the conditions stated above**
- **Remove the cap.**
- **Depress the button.**

- **Apply product directly to the surface from around 7-30cm away**
- **Reinstate cap.**
- **Return it to a safe storage location**

WASTE DISPOSAL: Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

EMERGENCY RESPONSE- First aid:

General response: Remove affected person from source of contamination. Get medical attention if any discomfort continues. If the person is unconscious, please them on their side in the recovery position and ensure breathing can take place. Seek immediate medical treatment.

In the event of CONTACT WITH THE SKIN:

- Wash promptly with soap and water if skin becomes contaminated.
- Promptly remove any clothing that becomes contaminated.
- If in doubt, get medical attention promptly and show this Safety Data Sheet to the medical personnel.

In the event of CONTACT WITH THE EYES:

- remove contacted lenses (if the person is conscious and can do so themselves) and open eyelids wide
- Rinse for at least 15 minutes.
- If in doubt, get medical attention promptly and show this Safety Data Sheet to the medical personnel.

In the event of INHALATION:

- Relocated the affected person to fresh air.
- Keep warm, a rest, and in a comfortable position.
- If breathing is difficult, oxygen should be administered by a qualified person.
- Seek medical attention.

In the event of INGESTION:

- Seek medical attention immediately
- Do not induce vomiting.
- Relocated the affected person to fresh air.
- Keep warm, a rest, and in a comfortable position.
- NEVER give anything by mouth to an unconscious person.

Emergency safety equipment:



Spill kit and spill response:

In the event of a spill:

- Stop leak if possible without risk.
- Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage.
- Provide adequate ventilation.
- Avoid the spillage or runoff entering drains, sewers or watercourses
- Contain spillage with sand, earth or other suitable non- combustible material.
- Report the spill immediately

Clean up/ decontamination: Absorb in vermiculite, dry sand or earth and place into containers. Wash thoroughly after dealing with a spillage.

Fire control:

In the event of a fire:

- Raise the alarm
- Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.
- Do not use water jet as an extinguisher, as this will spread the fire.
- If uncontrollable, call 000 and evacuate the area

The Safe Operation Procedure should be reviewed annually or sooner if an incident occurs or changes are made.

Castellano, Kiralee

From: Castellano, Kiralee
Sent: Wednesday, 16 June 2022
To: DL List: All workers
Subject: RE: Ramson Disinfectant Spray Process and Procedure
Attachments: Hazardous Chemicals (Hazardous Products, Materials, Substances and Dangerous Goods) Procedure - WORD.docx; Operating Procedure - Ramson.docx

Dear workers,

Please find attached Operating Procedure for Ramson Disinfectant Spray, and TipTop Construction's Hazardous Products, Materials, Substances and Dangerous Goods) Procedure.
Can you please ensure your workgroups complete a Toolbox Talk on the requirements.

Please raise any concerns or feedback to TipTip management.

Kind Regards,
Kiralee Castellano
WHS Practitioner

From: Castellano, Kiralee
Sent: Wednesday, 16 June 2022
To: Castellano, Kiralee <Kiralee.Castellano@lendlease.com>
Subject: Ramson Disinfectant Spray Process and Procedure

Attention PCBU:

It has been identified that there is use of Ramson Disinfectant Spray (a Hazardous Chemical) within the workplace. Please find attached operating procedure, developed in line with the Companies' Hazardous Products, Materials, Substances and Dangerous Goods) Procedure (also attached)

Please provide your feedback.

Kind Regards,
Kiralee Castellano
WHS Practitioner

Maintaining WHS legislative compliance during use of Acetone

By Kiralee Castellano

PCBU's duties regarding identified hazardous chemical

A PCBU (under WHS Act s19) has the primary duty to ensure, so far as is reasonably practicable, workers and other persons face risk to their health and safety, whilst carrying out any works as part of the conduct of the business or undertaking.

This includes ensuring the safe use, handling and storage of substances.

Therefore, a PCBU must eliminate risks arising from use Ramson Disinfectant Spray within in the workplace, or if that is not reasonably practicable, minimise the risks so far as is reasonably practicable.

The risks associated with Ramson Disinfectant Spray include:

- Risk of fire, as it's a extremely flammable gas, liquid and vapour.
- Serious damage to eyes or skin as a result of eye/skin contact

PCBU's duties regarding identified hazardous chemical (continued)

The WHS Regulation Part 7.1 (Hazardous Chemicals) include a number of specific duties for a PCBU to manage the risks to hazardous chemical within the workplace including:

- Providing information, training, instruction and supervision to workers on how to use the product
- Emergency plans are prepared, and if the quantity of a class of hazardous chemical at a workplace exceeds the manifest quantity for that hazardous chemical, providing a copy of the emergency plan to the primary service organisation
- Ensuring a spill containment system is in place
- Ensuring that exposure levels are not exceeded
- Displaying complaint safety signs as close to hazardous chemical, and using warning placards
- Ensuring containers are labelling correctly
- Maintaining a hazardous chemical register
- Providing information to the regulator of manifest quantities if required
- Having provisions in place for health monitoring for workers
- SDS sheets must be obtained
- Ignition sources and accumulation of flammable combustible substances must be controlled
- fire protection, firefighting equipment, emergency equipment and safety equipment are available and provisions in place
- stability and support of containers for bulk hazardous chemicals including pipework and attachments
- decommissioning of underground storage and handling systems
- notifying the regulator as soon as practicable of abandoned tanks in certain

Non-compliances highlighted from workplace monitoring

- Workplace monitoring via incident reports has found a worker has been exposed to Ramsol Disinfectant Spray in mist form, which has led to severe eye irritation.
- This occurred when the worker entered the site amenities (kitchen), in the morning, after the morning clean had been completed.
- It was found that the application of the product in combination with the lack of ventilation within the space as the kitchen door had been closed after the cleaners left, lead to a build-up of the product within the air.

Recommendations for improvements

- Considering risk control measures as per the hierarchy of control. The following recommendations for improvement have been made:
 - Find an alternative product for use that does not irritate eyes
 - Ensure all windows and doors to the kitchen are left open when using the product
 - Schedule the cleaners to undertake their clean at the end of the day, after all workers have left site
 - If the above is not possible, close the kitchen for a suitable period after the cleaning has been completed. Though do not lock the door, maintain ventilation and instead place a barricade in front of the entry to the kitchen whilst it's closed