

MATERIAL SAFETY DATA SHEET

ISSUE DATE: 09/10/2024 REVISION: 1.1

1.0 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE SUPPLIER

Product Name:	ESOL Epoxy Solvent
Product Code:	8.30
Recommended use:	General purpose solvent thinner blend for use with Epoxy Systems
Supplier:	Rockbond SCP
Street Address:	7 Te Puni Street, Petone, Lower Hutt, Wellington, New Zealand 5012
Telephone Number:	0800 76 25 26 (7.30am to 5.00pm, Monday to Friday)
Poisons Information Centre:	0800 764 766 (New Zealand)
Service Date of issue:	09/10/2024
Version:	1.1

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MATERIAL SAFETY DATA SHEET

ISSUE DATE: 09/10/2024 REVISION: 1.1

2.0 HAZARDS IDENTIFICATION

Hazard Classification

Flammable Liquids:	Category 2
Acute Toxicity (Inhalation):	Category 4
Acute Toxicity (Oral):	Category 3
Skin Irritation:	Category 2
Serious Eye irritation:	Category 2A
Reproductive Toxicity:	Category 2
Specific Target Organ Toxicity (Chronic):	Category 2
Aquatic Toxicity (Acute):	Category 2

Signal Word: DANGER



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MATERIAL SAFETY DATA SHEET

ISSUE DATE: 09/10/2024 REVISION: 1.1

Precautionary Statements

Health Hazards

- | | |
|-------------|---|
| H255 | Highly flammable liquid and vapour. |
| H331 | Toxic if inhaled. |
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation |
| H361 | Suspected of damaging fertility or the unborn child |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H433 | Harmful to terrestrial invertebrates. |
| H402 | Harmful to aquatic life. |

Precautionary Statements

Prevention

- | | |
|-------------|---|
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P210 | Keep away from sparks/open flames/hot surfaces. No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical/ventilating/lighting/equipment. |
| P242 | Use only non-sparking tools |
| P243 | Take precautionary measures against static discharge. |
| P261 | Avoid breathing fume/gas/mist/vapours/spray |
| P264 | Wash hands thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P273 | Avoid release to the environment. |

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MATERIAL SAFETY DATA SHEET

ISSUE DATE: 09/10/2024 REVISION: 1.1

P280 Wear protective gloves/protective clothing/eye protection/face protection

Response

P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+P378	In case of fire: Carbon dioxide, dry chemical or foam for extinction
P304+P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P311	Call a POISON CENTER or doctor/physician.
P321	IF SWALLOWED: Do not induce vomiting. Wash out mouth thoroughly with water. Seek medical attention.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P332+P313	If skin irritation occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before re-use
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.
P308+P313	IF exposed or concerned: Get medical advice/ attention.
Storage	
P405	Store locked up
P403+P235	Store in a well-ventilated place. Keep cool.
P233	Keep container tightly closed.
Disposal	
P501	Dispose of contents/container to approved waste disposal plant.

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MATERIAL SAFETY DATA SHEET

ISSUE DATE: 09/10/2024 REVISION: 1.1

3.0 COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Chemical Nature: Organic Peroxide

Hazardous Ingredients:

Chemical Name	CAS No.	Concentration (%)
Toluene	108-88-3	30-60
Propan-2-ol	67-63-0	30-60
Other non-hazardous components		to 100

4.0 FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre Phone 0800 764 766.

Inhalation: Move the person to fresh air immediately. Keep warm and at rest until recovered. Get medical advice if person feels unwell or is concerned.

Begin artificial respiration if breathing has stopped and get immediate medical assistance.

Swallowed:

If swallowed, DO NOT induce vomiting. Rinse mouth. Get medical advice. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth. Obtain immediate medical attention.

Skin Contact:

If skin contact occurs, remove contaminated clothing and wash skin with soap and water. If skin irritation occurs, get medical advice. Launder contaminated clothing before re-use.

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MATERIAL SAFETY DATA SHEET

ISSUE DATE: 09/10/2024 REVISION: 1.1

Eye Contact:

Hold eyelids apart and flush the eye continuously with running water for 15 minutes. Remove contact lenses after 5 minutes if present, and easy to do. Continue flushing. Get immediate medical attention if irritation persists.

First Aid facilities:

Provide eye baths and safety showers close to areas where splashing may occur.

Note to Doctor/Physician:

Treat symptomatically. Show doctor this notice.

5.0 FIRE FIGHTING MEASURES

Flammable liquids and vapours:

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress, providing fire fighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable extinguishing media:

Water mist or fog, carbon dioxide (CO₂), foam or dry chemical.

DO NOT use Jetstream of water.**Hazards from combustion products:**

Smoke, fume, carbon dioxide and carbon monoxide and incomplete combustion products.

Precautions for fire fighters and special protective equipment:

Full protective clothing and selfcontained breathing apparatus.

Hazchem Code: 3YE

Highly Flammable liquid and vapour. Vapour/Air mixture may ignite explosively. Flash back along vapour trail may occur. Run off into drains or sewer may create a fire or explosion hazard.

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MATERIAL SAFETY DATA SHEET

ISSUE DATE: 09/10/2024 REVISION: 1.1

SPECIAL FIREFIGHTING PROCEDURES.

Wear full protective clothing and self-contained breathing apparatus in positive pressure mode, in case of fire the product may be violently or explosively reactive. Use water spray to disperse the vapours. Prevent product and vapours from entering drains/sewers/water courses.

6.0 ACCIDENTAL RELEASE MEASURES

Steps to be taken if the material is released or spilled.

Evacuate personnel to a safe area. Use Protective equipment as required. Ensure adequate ventilation in area. Make sure there is no risk to self or personnel.

Turn off leak if safe to do so.

Eliminate all sources of ignition (flames, hot surfaces, electrical, static or frictional sparks, no smoking). Then ventilate the area.

Contain the area of spillage and place material into container for use or disposal. Absorb remainder on sand or perlite and place the saturated absorbent into closed containers and label for disposal.

Prevent contamination of storm-water drains and waterways.

Waste disposal method. Destroy by liquid incineration with off-gas scrubber.

Contaminated absorbent to be disposed of in accordance with appropriate local or governmental regulations.

Correctly label all material containers to be disposed of.

7.0 HANDLING & STORAGE

Use Personal Protection. Avoid inhalation of vapour and contact with skin, eyes and clothing. Launder contaminated clothing before re-use, wash skin with soapy water. Wash hands thoroughly before eating.

This product is highly flammable, do not open near open flame, sources of heat or ignition, NO SMOKING.

Store in a locked and bunded area or approved flammable goods store away from direct heat (ideally below 25°C to prevent spoilage). Keep containers tightly closed when not in use.

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MATERIAL SAFETY DATA SHEET

ISSUE DATE: 09/10/2024 REVISION: 1.1

Open drums slowly in case of internal pressure. Isolate from all potential sources of ignition including flames and electrical sparks.

Hazardous polymerisation can take place when not stored correctly or close to a fire.

Store separate from oxidising materials, peroxides and metal salts.

Ground (earth) containers when using above flash point, -4°C.

8.0 EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautions for Safe Handling

Avoid contact with skin and eyes. Wear overalls, impervious gloves and safety glasses.

Use in designated areas with local exhaust ventilation, away from sparks, flames and other ignition sources. Use approved flammable liquid storage containers in the work area. Prevent release of vapours and mists into workplace air. Keep containers tightly closed. Take precautionary measures against static discharges. Do not empty into drains. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands before eating, drinking, smoking or using the toilet facilities.

Conditions for Safe Storage

Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, strong acids, foodstuffs, and clothing. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. Ensure that storage conditions comply with applicable local and national regulations.

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MATERIAL SAFETY DATA SHEET

ISSUE DATE: 09/10/2024 REVISION: 1.1

For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids.

Reference should also be made to all applicable local and national regulations.

National Exposure Standards

Substance	Regulations	Exposure Duration	Exposure Limit	Units	Notes
Propan-2-ol	NZ OELs List	TWA	400	ppm	
	NZ OELs List	TWA	983	mg/m3	
	NZ OELs List	STEL	500	ppm	
	NZ OELs List	STEL	1230	mg/m3	
Toluene	NZ OELs List	TWA	50	ppm	
	NZ OELs List	TWA	188	mg/m3	

Biological Limit Values

Name: Toluene

Determinant: o-Cresol with hydrolysis

Specimen: Creatinine in urine.

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MATERIAL SAFETY DATA SHEET

ISSUE DATE: 09/10/2024 REVISION: 1.1

Sampling time: End of shift.

Value: 0.3 mg/g

Source: American Conference of Industrial Hygienists (ACGIH)

Engineering Controls

This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. A flame-proof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn. Refer to relevant regulations for further information concerning ventilation requirements.

Refer to AS 1940 - The storage and handling of flammable and combustible liquids and AS/NZS 60079.10.1:2009 Explosive atmospheres - Classification of areas - Explosive gas atmospheres, for further information concerning ventilation requirements.

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapour/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.

Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective

Devices, in order to make any necessary changes for individual circumstances.

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MATERIAL SAFETY DATA SHEET

ISSUE DATE: 09/10/2024 REVISION: 1.1

Eye Protection

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations.

Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye

Protectors for Industrial Applications.

Hand Protection

Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled

MATERIAL SAFETY DATA SHEET

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9.0 PHYSICAL & CHEMICAL PROPERTIES

Appearance	Liquid
Colour	Clear
Odour	Aromatic
pH	Not available
Vapour pressure	Not available
Vapour density	> 1. AIR=1
Boiling Point	82-111°C
Melting/Freezing Point	Not available
Solubility (water)	Not available
Specific Gravity/Density	0.830 (15°C)
Flash Point	1°C (Abel Closed Cup)
Flammable Limits	Not available
Auto-ignition	Not available

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ISSUE DATE: 09/10/2024 REVISION: 1.1

10.0 STABILITY & REACTIVITY

Chemical Stability	Stable under normal conditions of storage and handling.
Conditions to avoid	Heat, open flames and other sources of ignition
Incompatible Materials	Strong oxidising agents, acids and bases. Halogens, amines and alcohols.
Hazardous Decomposition Products	Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon dioxide and carbon monoxide.
Hazardous Polymerization	Will not occur.

11.0 TOXICOLOGICAL INFORMATION

Potential Health effects

Inhalation	Harmful if inhaled. Inhalation may cause headaches, impairment of judgement and in extreme cases can lead to unconsciousness or death. May cause drowsiness or dizziness.
Ingestion	Harmful if swallowed. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause pulmonary injury. May cause irritation to the mouth, throat, esophagus and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea.
Skin	Causes skin irritation. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis. Product can be absorbed through skin with resultant toxic systemic effects.

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ISSUE DATE: 09/10/2024 REVISION: 1.1

Eye	Causes serious eye irritation. The symptoms may include redness, itching and tearing.
Chronic Effects	May cause damage to organs through prolonged or repeated exposure by inhalation. Prolonged or repeated skin contact may cause defatting leading to drying and cracking of skin and dermatitis. Chronic exposure may have adverse effects on the central nervous system, liver and kidneys.
Reproductive Toxicity	Suspected of damaging fertility or the unborn child.

12.0 ECOLOGICAL INFORMATION

Ecotoxicity	Harmful to aquatic life. Harmful to terrestrial vertebrates.
Persistence / Degradability	Not available
Mobility	Not available
Bioaccumulative Potential	Not available
Environmental Protection	Do not discharge this material into waterways, drains and sewers.

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ISSUE DATE: 09/10/2024 REVISION: 1.1

13.0 DISPOSAL CONSIDERATIONS

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must follow all Federal, State/Provincial, and local laws and regulations.

FOR UNUSED AND UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: recycler, reclaimer, incinerator, or other destruction device.

General information

The generation of waste should be minimised or avoided wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

MATERIAL SAFETY DATA SHEET

ISSUE DATE: 09/10/2024 REVISION: 1.1

14.0 TRANSPORTATION & REGULATORY INFORMATION

Road, Rail, Sea and Air Transport

UN Number	1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S. – (Toluene and Isopropanol)
DG Class	3
Packing Group	II
IATA/ICAO Sub Risk	
HAZCHEM Code	3YE
IMO/IMDG Class	3
IMO/IATA Class	3
Marine Pollutant	Yes
EmS Code	F-E, S-E
Hazard Diamonds	

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MATERIAL SAFETY DATA SHEET

ISSUE DATE: 09/10/2024 REVISION: 1.1

15.0 REGULATORY INFORMATION

EPA New Zealand HSNO approval code:

HSR001079, Additives, Process Chemicals and Raw Materials (Flammables) Group standard 2017.

SDS to be available within 10 minutes when required.

Emergency Response Plan:

Threshold quantity: 1,000 L

Secondary containment:

Threshold quantity: 1,000 L

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MATERIAL SAFETY DATA SHEET

ISSUE DATE: 09/10/2024 REVISION: 1.1

16.0 OTHER INFORMATION

References

<https://echa.europa.eu/information-on-chemicals/cl-inventory-databas>

<https://www.epa.govt.nz/database-search/chemical-classification-and-information-database-ccid/>

<https://www.epa.govt.nz/>

RCNZ Approved HSNO CoP Preparation of Safety Data Sheets

https://www.epa.govt.nz/assets/Uploads/Documents/Hazardous-Substances/GHS2/Guide_to_Classifying_Hazardous_Substances_in_NZ.pdf

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This version replaces all previous versions.

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Product Information Manager (+64) 9 838 6961

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