

1. Product and company identification

Product name Couplant B
Supplier Evident Australia Pty Ltd
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e-mail
Emergency telephone number Emergency Tel: 13 11 26 (Poison Information Centre)
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Recommended use and Limitations on use

Recommended use Couplant.

2. Hazards identification

GHS classification

Physical hazards Not classified.
Health hazards Specific target organ toxicity following single exposure Category 3 respiratory tract irritation
Environmental hazards Not classified.

Label elements

Symbols



Signal word Warning
Hazard statement May cause respiratory irritation.

Precautionary statements

Prevention Avoid breathing mist or vapour. Use only outdoors or in a well-ventilated area.
Response IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.
Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental information None.

3. Composition/information on ingredients

Substance or mixture Substance

Chemical property	CAS Number	Concentration (%)
Glycerol	56-81-5	100
Glycerin		

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First aid measures

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact Rinse with water. Get medical attention if irritation develops and persists.
Ingestion Rinse mouth thoroughly. Get medical attention if symptoms occur.
Potential delayed effects Direct contact with eyes may cause temporary irritation. May cause respiratory irritation.
Personal protection for first-aid responders Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
Notes to physician Treat symptomatically.

5. Fire-fighting measures

Extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Extinguishing media to avoid	None known.
HAZCHEM Code Number	None.
Specific hazards during fire fighting	By heating and fire, harmful vapours/gases may be formed.
Special fire fighting procedures	Move containers from fire area if you can do so without risk.
Protection of fire-fighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Hazards from combustion products	Acrolein.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Avoid prolonged exposure. Keep unnecessary personnel away. In case of spills, beware of slippery floors and surfaces. Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
Spill cleanup methods	Stop the flow of material, if this is without risk. Wipe up with absorbent material (e.g. cloth, fleece). After cleaning, flush away traces with water. For waste disposal, see section 13 of the SDS.

7. Handling and storage

Handling	
Precautions	Avoid prolonged exposure. Avoid breathing mist or vapour. Wear appropriate personal protective equipment. Use personal protection recommended in Section 8 of the SDS.
Safe handling advice	Observe good industrial hygiene practices.
Prevention of fire and explosion	No specific recommendations.
Local and general ventilation	Provide adequate ventilation.
Storage	
Suitable storage conditions	Store in closed original container at temperatures between 18°C and 54°C. Store away from incompatible materials (see Section 10 of the SDS).
Incompatible materials	Strong oxidising agents.
Safe packaging materials	Store in original tightly closed container.

8. Exposure controls/personal protection

Workplace exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Personal protective equipment	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection	For prolonged or repeated skin contact use suitable protective gloves. Suitable gloves can be recommended by the glove supplier.
Skin protection	Wear suitable protective clothing.
Eye/face protection	If contact is likely, safety glasses with side shields are recommended. Eye wash fountain is recommended.
Radioactive or thermal hazards	Follow standard monitoring procedures.
Hygiene measures	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	
Physical state	Liquid.

Form	Viscous.
Colour	Clear.
Odour	Mild.
Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	19.85 °C (67.73 °F)
Boiling point, initial boiling point, and boiling range	290 °C (554 °F)
Flash point	198.9 °C (390.0 °F) Closed cup
Auto-ignition temperature	Not available.
Flammability (solid, gas)	Not applicable.
Flammability limit - lower (%)	2.6
Flammability limit - upper (%)	11.3
Vapour pressure	< 0.13 kPa
Vapour density	3.1 (Air = 1)
Evaporation rate	> 1 (Ether (anhydrous) =1)
Relative density	1.4 - 1.6
Density	Not available.
Solubility(ies)	
Solubility (water)	Soluble in water.
Partition coefficient (n-octanol/water)	-1.76
Decomposition temperature	Not available.
Molecular weight	92.09 g/mol
Other data	
Explosive properties	Not explosive.
Molecular formula	C3-H8-O3
Oxidising properties	Not oxidising.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport. Hygroscopic.
Stability	Material is stable under normal conditions..
Conditions to avoid	Excessive heat. Ignition sources.
Incompatible materials	Strong oxidising agents.
Hazardous decomposition products	Hygroscopic
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.
Inhalation	High mist concentrations may cause irritation of respiratory tract.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Acute toxicity	Not expected to be acutely toxic.

Product	Species	Test results
Glycerol (CAS 56-81-5)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 10 g/kg
<i>Oral</i>		
LD50	Rat	12600 mg/kg
Routes of exposure	Inhalation. Skin contact. Eye contact. Ingestion.	

Symptoms	Direct contact with eyes may cause temporary irritation. May cause respiratory irritation.
Skin corrosion/irritation	No adverse effects due to skin contact are expected.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory sensitizer	Due to lack of data the classification is not possible.
Skin sensitizer	This product is not expected to cause skin sensitisation.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Toxic to reproduction	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	May cause respiratory irritation.
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Not available.
Relevant negative data	No data available.

12. Ecological information

Ecotoxicological data

Product	Species	Test results
Glycerol (CAS 56-81-5)		
Aquatic		
Fish	LC50 Fish	54000 mg/l, 96 hours
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.	
Persistence and degradability	The product is readily biodegradable.	
Bioaccumulation	The product is not bioaccumulating.	
Bioconcentration factor (BCF)	Not available.	
Mobility	No data available for this product.	
Other hazardous effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

13. Disposal considerations

Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Special precautions	Dispose in accordance with all applicable regulations.

14. Transport information

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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

15. Regulatory information

Applicable regulations Glycerol: HSNO: 6.9

New Zealand Inventory of Chemicals (NZIoC): Registration status

Glycerol (CAS 56-81-5)	May be used as a single component chemical under an appropriate group standard
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16. Other information

References	Not available.
Issued by	
Company name	Evident Scientific
Prepared by	
Title	Evident Scientific

Disclaimer

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