

## 1. Product and company identification

**Product name** Couplant B-2  
**Supplier** Olympus Australia Pty Ltd  
**Address** 3 Acacia Place, Notting Hill, Victoria 3168, Australia  
**Telephone** +61 130-013-299  
**FAX** +61 395-431-350  
**e-mail**  
**Emergency telephone number** CHEMTREC  
 US: 1-800-424-9300, International: +1 703-527-3887

### 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

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

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	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.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.
<b>Spill cleanup methods</b>	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

<b>Precautions</b>	Avoid prolonged exposure. Avoid breathing mist or vapour. Wear appropriate personal protective equipment. Use personal protection recommended in Section 8 of the SDS.
<b>Safe handling advice</b>	Observe good industrial hygiene practices.
<b>Prevention of fire and explosion</b>	No specific recommendations.
<b>Local and general ventilation</b>	Provide adequate ventilation.

### Storage

<b>Suitable storage conditions</b>	Store in closed original container at temperatures between 18°C and 54°C. Store away from incompatible materials (see Section 10 of the SDS).
<b>Incompatible materials</b>	Strong oxidising agents.
<b>Safe packaging materials</b>	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

<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Hand protection</b>	For prolonged or repeated skin contact use suitable protective gloves. Suitable gloves can be recommended by the glove supplier.
<b>Skin protection</b>	Wear suitable protective clothing.
<b>Eye/face protection</b>	If contact is likely, safety glasses with side shields are recommended. Eye wash fountain is recommended.
<b>Radioactive or thermal hazards</b>	Follow standard monitoring procedures.
<b>Hygiene measures</b>	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

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

## 10. Stability and reactivity

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

## 11. Toxicological information

### Information on likely routes of exposure

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

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

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

## 12. Ecological information

### Ecotoxicological data

Product	Species	Test results
Glycerol (CAS 56-81-5)		
<b>Aquatic</b>		
Fish	LC50 Fish	54000 mg/l, 96 hours
<b>Ecotoxicity</b>	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.	
<b>Persistence and degradability</b>	The product is readily biodegradable.	
<b>Bioaccumulation</b>	The product is not bioaccumulating.	
<b>Bioconcentration factor (BCF)</b>	Not available.	
<b>Mobility</b>	No data available for this product.	
<b>Other hazardous effects</b>	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

<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
<b>Special precautions</b>	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** Olympus

### Prepared by

**Title** Olympus

**Disclaimer**

Olympus cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

**Issue date**

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**Revision date**

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