

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance/preparation	<b>Couplant B</b>
Use of the substance/preparation	Couplant.
Version No.	02
CAS No.	56-81-5
Manufacturer	
Supplier	Evident Scientific
Address	48 Woerd Ave. Waltham, MA 02453, USA
Telephone	+1 781-419-3900
Emergency telephone number	CHEMTREC US: 1-800-424-9300, International: +1 703-527-3887

## 2. HAZARDS IDENTIFICATION

Physical hazards	Not classified as a physical hazard.
Health hazards	Not classified as a health hazard.
Environmental hazards	Not classified as an environmental hazard.
Specific hazards	Direct contact with eyes may cause temporary irritation. May cause respiratory irritation.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.	Percent	EC-No.	Classification
Glycerol	56-81-5	100	200-289-5	

**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

<b>Inhalation</b>	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.
<b>Skin contact</b>	Wash off with soap and water. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth thoroughly. Get medical attention if symptoms occur.
<b>General advice</b>	If you feel unwell, seek medical advice (show the label where possible).

## 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media</b>	Use fire-extinguishing media appropriate for surrounding materials.
<b>Extinguishing media which must not be used for safety reasons</b>	None known.
<b>Unusual fire &amp; explosion hazards</b>	Will burn if involved in a fire.
<b>Specific hazards</b>	By heating and fire, harmful vapours/gases may be formed.
<b>Special protective equipment for fire-fighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>Hazardous combustion products</b>	Acrolein.
<b>General fire hazards</b>	Will burn if involved in a fire.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Containment procedures</b>	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.
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<b>Personal precautions</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>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</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

<b>Handling</b>	Provide adequate ventilation. Avoid prolonged exposure. Avoid breathing mist or vapour. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
<b>Storage</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).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Recommended monitoring procedures</b>	
<b>Additional exposure data</b>	Not available.
<b>Engineering measures</b>	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.
<b>Personal protective equipment</b>	
<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>Eye protection</b>	If contact is likely, safety glasses with side shields are recommended. Eye wash fountain is recommended.
<b>Skin and body protection</b>	Wear suitable protective clothing.
<b>Environmental exposure controls</b>	Environmental manager must be informed of all major releases.
<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

<b>Appearance</b>	
<b>Physical state</b>	Liquid.
<b>Form</b>	Viscous.
<b>Colour</b>	Clear.
<b>Odour</b>	Mild.
<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 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>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

## Other data

Molecular formula	C3-H8-O3
Relative density	1.4 - 1.6

## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL INFORMATION

### Toxicological data

Product	Species	Test results
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>Acute toxicity</b>	Not expected to be acutely toxic.	
<b>Routes of exposure</b>	Inhalation. Skin contact. Eye contact. Ingestion.	
<b>Toxicological information</b>	Occupational exposure to the substance or mixture may cause adverse effects.	
<b>Sensitisation</b>	Not classified.	
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
<b>Mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
<b>Reproductivity</b>	This product is not expected to cause reproductive or developmental effects.	
<b>Epidemiology</b>	No epidemiological data is available for this product.	
<b>Local effects</b>	High mist concentrations may cause irritation of respiratory tract. Direct contact with eyes may cause temporary irritation.	
<b>Symptoms and target organs</b>	Direct contact with eyes may cause temporary irritation. May cause respiratory irritation.	

## 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>Mobility</b>	No data available for this product.	
<b>Other adverse 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 instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 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

### Labelling

<b>Contains</b>	Glycerol
<b>EC number</b>	200-289-5
<b>R-phrases(s)</b>	None.
<b>S-phrases(s)</b>	S24/25 Avoid contact with skin and eyes.

## 16. OTHER INFORMATION

### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### Disclaimer

Evident Scientific 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.

<b>Prepared by</b>	Evident Scientific
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