

SAFETY DATA SHEET



1. PRODUCT AND COMPANY IDENTIFICATION

Material name Couplant B
Product use Couplant.
Version # 02
CAS # 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. COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Preparation	Substance			
Components		CAS #	Percent	Classification
Glycerin		56-81-5	100	

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

3. 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.

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.
General advice Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

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

6. ACCIDENTAL RELEASE MEASURES

Containment procedures Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

Personal precautions	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 MSDS.
Environmental precautions	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Wipe up with absorbent material (e.g. cloth, fleece). After cleaning, flush away traces with water. For waste disposal, see section 13 of the MSDS.

7. HANDLING AND STORAGE

Handling	Provide adequate ventilation. Avoid prolonged exposure. Avoid breathing mist or vapor. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Storage	Store in closed original container at temperatures between 18°C and 54°C. Store away from incompatible materials (see Section 10 of the MSDS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters	Follow standard monitoring procedures.
Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate 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 measures	
Eyes and face protection	If contact is likely, safety glasses with side shields are recommended. Eye wash fountain is recommended.
Skin protection	
Hand protection	For prolonged or repeated skin contact use suitable protective gloves. Suitable gloves can be recommended by the glove supplier.
Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
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.
Color	Clear.
Odor	Mild.
pH	Not available.
Melting point/Freezing point	67.73 °F (19.85 °C)
Boiling point, initial boiling point, and boiling range	554 °F (290 °C)
Flash point	390.0 °F (198.9 °C) Closed Cup
Auto-ignition temperature	Not available.
Flammability limit - lower (%)	2.6
Flammability limit - upper (%)	11.3
Vapor pressure	< 0.13 kPa
Vapor density	3.1 (Air = 1)
Evaporation rate	> 1 (Ether (anhydrous) =1)
Specific gravity	1.4 - 1.6
Solubility	Soluble in water.
Partition coefficient (n-octanol/water)	-1.76
Decomposition temperature	Not available.
Molecular weight	92.09 g/mol
Other data	
Molecular formula	C3-H8-O3

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 oxidizing agents.

11. TOXICOLOGICAL INFORMATION

Toxicological data		
Product	Species	Test Results
Glycerin (CAS 56-81-5)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 10 g/kg
<i>Oral</i>		
LD50	Rat	12600 mg/kg
Acute toxicity	Not expected to be acutely toxic.	
Routes of exposure	Inhalation. Skin contact. Eye contact. Ingestion.	
Toxicological information	Occupational exposure to the substance or mixture may cause adverse effects.	
Chronic toxicity	None known.	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Reproductivity	This product is not expected to cause reproductive or developmental effects.	
Epidemiology	No epidemiological data is available for this product.	
Local effects	Direct contact with eyes may cause temporary irritation. High mist concentrations may cause irritation of respiratory tract.	

12. ECOLOGICAL INFORMATION

Ecotoxicological data		
Product	Species	Test Results
Glycerin (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 / degradability	The product is readily biodegradable.	
Bioaccumulation	The product is not bioaccumulating.	

13. DISPOSAL CONSIDERATIONS

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	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

National regulations
ANTT
Not regulated as dangerous goods.
International regulations
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

Federal regulations

Prohibited Chemical Substances

Not regulated

Restricted Chemical Substances

Not regulated

International regulations

Montreal Protocol

Not applicable.

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

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.

Prepared by

Evident Scientific

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