

1. Product and Company Identification

Material name Couplant B
Version # 02
Issue date 11-August-2016
Revision date 22-November-2022
Supersedes date 11-August-2016
CAS # 56-81-5
Product use Couplant.
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

Emergency overview CAUTION! May cause respiratory tract irritation.
Potential health effects
Routes of exposure Inhalation. Skin contact. Eye contact. Ingestion.
Eyes Direct contact with eyes may cause temporary irritation.
Skin No adverse effects due to skin contact are expected.
Inhalation May cause respiratory irritation.
Ingestion Expected to be a low ingestion hazard.
Potential environmental effects 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.

3. Composition / Information on Ingredients

Non-hazardous components	CAS #	Percent
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.

4. First Aid Measures

First aid procedures
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

Flammable properties Will burn if involved in a fire.
Extinguishing media
Suitable extinguishing media Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media None known.
Protection of firefighters
Specific hazards arising from the chemical By heating and fire, harmful vapors/gases may be formed.

Protective equipment and precautions for firefighters	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.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
Hazardous combustion products	Acrolein.

6. Accidental Release Measures

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. Do not contaminate water.
Methods for containment	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas.
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

Occupational 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	
Eye / face protection	If contact is likely, safety glasses with side shields are recommended. Eye wash fountain is recommended.
Skin protection	Wear suitable protective clothing.
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.
General hygiene considerations	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 & Chemical Properties

Appearance	
Physical state	Liquid.
Form	Viscous.
Color	Clear.
Odor	Mild.
Odor threshold	Not available.
pH	Not available.
Vapor pressure	< 0.13 kPa
Vapor density	3.1 (Air = 1)
Boiling point	554 °F (290 °C)
Melting point/Freezing point	67.73 °F (19.85 °C)
Solubility (water)	Soluble in water.
Specific gravity	1.4 - 1.6
Relative density	1.4 - 1.6
Flash point	390.0 °F (198.9 °C) Closed Cup
Flammability limits in air, upper, % by volume	11.3

Flammability limits in air, lower, % by volume	2.6
Auto-ignition temperature	Not available.
Evaporation rate	> 1 (Ether (anhydrous) =1)
Partition coefficient (n-octanol/water)	-1.76
Molecular weight	92.09 g/mol
Molecular formula	C3-H8-O3

10. Chemical Stability & Reactivity Information

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport. Hygroscopic.
Chemical stability	Material is stable under normal conditions..
Conditions to avoid	Excessive heat. Ignition sources.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Hygroscopic

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

Toxicological information	Occupational exposure to the substance or mixture may cause adverse effects.
Acute effects	Not expected to be acutely toxic.
Local effects	Direct contact with eyes may cause temporary irritation. High mist concentrations may cause irritation of respiratory tract.
Chronic effects	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.
Reproductive effects	This product is not expected to cause reproductive or developmental effects.
Symptoms and target organs	May cause respiratory irritation.

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.
Environmental fate	
Persistence / degradability	The product is readily biodegradable.
Bioaccumulation	The product is not bioaccumulating.

13. Disposal Considerations

Waste codes	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.
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**ANTT**

Not regulated as dangerous goods.

DOT

Not regulated as dangerous goods.

SCT

Not regulated as dangerous goods.

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**International regulations****Montreal Protocol**

Not applicable.

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*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).

16. Other Information**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.