SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Material name: Couplant B
Product use: Couplant
Version #: 02
CAS #: 56-81-5
Manufacturer: Evident Scientific
Supplier: 48 Woerd Ave. Waltham, MA 02453, USA
Address
Telephone: +1 781-419-3900
Emergency telephone number
CHEMTREC
US: 1-800-424-9300, International: +1 703-527-3887

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance or Preparation</th>
<th>Substance</th>
<th>CAS #</th>
<th>Percent</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td></td>
<td>56-81-5</td>
<td>100</td>
<td></td>
</tr>
</tbody>
</table>

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 mouth thoroughly. Get medical attention if symptoms occur.
Ingestion: Rinse with water. Get medical attention if irritation develops and persists.
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

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin (CAS 56-81-5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>&gt; 10 g/kg</td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>12600 mg/kg</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin (CAS 56-81-5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>54000 mg/l, 96 hours</td>
</tr>
</tbody>
</table>

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

ANNT: Not regulated as dangerous goods.

International regulations

IATA: Not regulated as dangerous goods.

IMDG: Not regulated as dangerous goods.
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

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
</tbody>
</table>

*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

Issue date

11-August-2016

Revision date

22-November-2022