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**: 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.

  - **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.

3. Composition / Information on Ingredients

- **Non-hazardous components**
  - **Glycerin**
    - **CAS #**: 56-81-5
    - **Percent**: 100

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.

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.
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

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 exposure limits
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
10. Chemical Stability & Reactivity Information

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.

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

<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 Rabbit</td>
<td>&gt; 10 g/kg</td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50 Rat</td>
<td>12600 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

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

<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.

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

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<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>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</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).

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.