SAFETY DATA SHEET

1. Identification

Product identifier: Couplant B

Other means of identification: None.

Recommended use of the chemical and restrictions on use:
- **Recommended use:** Couplant.
- **Restrictions on use:** Not available.

Details of manufacturer or importer:
- **Supplier:** Evident Australia PTY LTD
  - **Address:** Level 4, 97 Waterloo Road, Macquarie Park NSW 2113, Australia
  - **Telephone:** Tel: +1800-844-211, Emergency Tel: 13 11 26 (Poison Information Centre)
- **Emergency telephone number:** CHEMTREC
  - US: 1-800-424-9300, International: +1 703-527-3887

2. Hazard(s) identification

**Classification of the hazardous chemical**
- **Physical hazards:** Not classified.
- **Health hazards:** Specific target organ toxicity following single exposure Category 3 respiratory tract irritation
- **Environmental hazards:** Not classified.

**Label elements, including precautionary statements**

- **Hazard symbol(s):** Exclamation mark
- **Signal word:** Warning
- **Hazard Statement(s):** May cause respiratory irritation.
- **Precautionary Statement(s):**
  - **Prevention:** Avoid breathing mist or vapour. Use only outdoors or in a well-ventilated area.
  - **Response:** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.
  - **Storage:** Store in a well-ventilated place. Keep container tightly closed. Store locked up.
  - **Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Other hazards which do not result in classification:** None known.
- **Supplemental information:** None.

3. Composition/information on ingredients

**Substance**

<table>
<thead>
<tr>
<th>Identity of chemical ingredients</th>
<th>CAS number and other unique identifiers</th>
<th>Concentration of ingredients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol</td>
<td>56-81-5</td>
<td>100</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.
4. First-aid measures

**Description of necessary 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.

**Personal protection for first-aid responders**
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**Symptoms caused by exposure**
Direct contact with eyes may cause temporary irritation. May cause respiratory irritation.

**Medical attention and special treatment**
Treat symptomatically.

5. Fire-fighting measures

**Extinguishing media**
Use fire-extinguishing media appropriate for surrounding materials.

**Suitable extinguishing media**
None known.

**Unsuitable extinguishing media**
By heating and fire, harmful vapours/gases may be formed.

**Specific hazards arising from the chemical**
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Special protective equipment and precautions for fire fighters**
Move containers from fire area if you can do so without risk.

**Fire fighting equipment/instructions**
None.

**General fire hazards**
Will burn if involved in a fire.

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

6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
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.

**For non-emergency personnel**
Avoid discharge into drains, water courses or onto the ground.

**For emergency responders**
Stop the flow of material, if this is without risk. Wipe up with absorbent material (e.g. cloth, fleece).

**Environmental precautions**
After cleaning, flush away traces with water. For waste disposal, see section 13 of the SDS.

**Methods and materials for containment and cleaning up**
Provide adequate ventilation. Avoid prolonged exposure. Avoid breathing mist or vapour. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

**Precautions for safe handling**
Store in closed original container at temperatures between 18°C and 54°C. Store away from incompatible materials (see section 10 of the SDS).

7. Handling and storage

8. Exposure controls and 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.
Individual protection measures, for example personal protective equipment (PPE)

- **Eye/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**
  - **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.
- **Colour**: Clear.

**Odour**: Mild.

**Odour threshold**: Not available.

**pH**: Not available.

**Melting point/freezing point**: 19.85 °C (67.73 °F)

**Initial boiling point and boiling range**: 290 °C (554 °F)

**Flash point**: 198.9 °C (390.0 °F) Closed cup

**Evaporation rate**: > 1 (Ether (anhydrous) = 1)

**Flammability (solid, gas)**: Not applicable.

**Upper/lower flammability or explosive limits**
- **Flammability limit - lower (%)**: 2.6
- **Flammability limit - upper (%)**: 11.3

**Vapour pressure**: < 0.13 kPa

**Vapour density**: 3.1 (Air = 1)

**Relative density**: 1.4 - 1.6

**Solubility(ies)**
- **Solubility (water)**: Soluble in water.

**Partition coefficient (n-octanol/water)**: -1.76

**Auto-ignition temperature**: Not available.

**Decomposition temperature**: Not available.

**Viscosity**: Not available.

**Other physical and chemical parameters**
- **Explosive properties**: Not explosive.
- **Molecular formula**: C3-H8-O3
- **Molecular weight**: 92.09 g/mol
- **Oxidising properties**: Not oxidising.

10. Stability and reactivity

**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.
Possibility of hazardous reactions
No dangerous reaction known under conditions of normal use.

Conditions to avoid
Excessive heat. Ignition sources.

Incompatible materials
Strong oxidising agents.

Hazardous decomposition products
Hygroscopic

11. Toxicological information

Information on possible routes of exposure

Inhalation
High mist concentrations may cause irritation of respiratory tract.

Skin contact
No adverse effects due to skin contact are expected.

Eye contact
Direct contact with eyes may cause temporary irritation.

Ingestion
Expected to be a low ingestion hazard.

Symptoms related to exposure
Direct contact with eyes may cause temporary irritation. May cause respiratory irritation.

Acute toxicity
Not expected to be acutely toxic.

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol (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>

Skin corrosion/irritation
No adverse effects due to skin contact are expected.

Serious eye damage/irritation
Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitisation

Respiratory sensitisation
Due to lack of data the classification is not possible.

Skin sensitisation
This product is not expected to cause skin sensitisation.

Germ cell mutagenicity
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity
This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive toxicity
This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure
May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
Based on available data, the classification criteria are not met.

Aspiration hazard
Not an aspiration hazard.

12. Ecological information

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.

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol (CAS 56-81-5)</td>
<td></td>
<td>54000 mg/l, 96 hours</td>
</tr>
</tbody>
</table>

Persistence and degradability
The product is readily biodegradable.

Bioaccumulative potential
The product is not bioaccumulating.

Mobility in soil
No data available for this product.

Other adverse effects
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

Disposal methods
Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Residual waste
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

ADG
Not regulated as dangerous goods.

RID
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

Safety, health and environmental regulations

National regulations
No poison schedule number allocated. This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals (23/12/2011).

High Volume Industrial Chemicals (HVIC)
Glycerol (CAS 56-81-5) 1000 - 9999 TONNES See the regulation for additional information.

Importation of Ozone Deleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)
Not listed.

National Pollutant Inventory (NPI) substance reporting list
Not listed.

Prohibited Carcinogenic Substances
Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)
Not listed.

Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)
Not listed.

Restricted Carcinogenic Substances
Not regulated.

International regulations

Stockholm Convention
Not applicable.

Rotterdam Convention
Not applicable.

Kyoto protocol
Not applicable.

Montreal 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>Country(s) or region</td>
<td>Inventory name</td>
<td>On inventory (yes/no)*</td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>--------------------------------------------------------------------------------</td>
<td>------------------------</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

Issue date: 11- August-2016
Revision date: 22- November-2022

Key abbreviations or acronyms used

- LD50: Lethal Dose 50%.
- LC50: Lethal Concentration 50%.

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.