1. Product and company identification

Product name: Couplant D
Product code: D-12 u8770026
Supplier: Evident Australia PTY LTD
Address: Level 4, 97 Waterloo Road, Macquarie Park NSW 2113 Australia
Telephone: +1800-844-211
FAX: CHEMTRECUS: 1-800-424-9300, International: +1 703-527-3887
Emergency number: CHEMTRECUS: 1-800-424-9300, International: +1 703-527-3887

2. Hazards identification

GHS classification
- Physical hazards: Not classified.
- Health hazards: Not classified.
- Environmental hazards: Not classified.

Label elements
- Symbols: None.
- Signal word: None.
- Hazard statement: The mixture does not meet the criteria for classification.

Precautionary statements
- Prevention: Observe good industrial hygiene practices.
- Response: Wash hands after handling.
- Storage: Store away from incompatible materials.
- Disposal: Dispose of waste and residues in accordance with local authority requirements.

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Substance or mixture</th>
<th>Chemical property</th>
<th>CAS Number</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixture</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propylene glycol</td>
<td></td>
<td>57-55-6</td>
<td>&lt;35</td>
</tr>
<tr>
<td>Sodium molybdate</td>
<td></td>
<td>7631-95-0</td>
<td>&lt;2</td>
</tr>
</tbody>
</table>

4. First aid measures

- Inhalation: Move to fresh air. 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. Get medical attention if symptoms occur.
- Potential delayed effects: Direct contact with eyes may cause temporary irritation.
- Personal protection for first-aid responders: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
- Notes to physician: Treat symptomatically.

5. Fire-fighting measures

- Extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.
- Extinguishing media to avoid: None known.
- HAZCHEM Code Number: None.
- Specific hazards during fire fighting: During fire, gases hazardous to health may be formed.
Special fire fighting procedures
- Move containers from fire area if you can do so without risk.

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

Hazards from combustion products
- None.

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

Environmental precautions
- Avoid discharge into drains, water courses or onto the ground.

Spill cleanup methods
- Sweep or scoop up and remove. Wipe up with absorbent material (e.g. cloth, fleece). After cleaning, flush away traces with water. For waste disposal, see section 13 of the SDS.

7. Handling and storage

Handling

Precautions
- Avoid prolonged exposure. It is a good industrial hygiene practice to minimise skin contact. Use personal protection recommended in Section 8 of the SDS.

Safe handling advice
- Observe good industrial hygiene practices.

Prevention of fire and explosion
- No specific recommendations.

Local and general ventilation
- Provide adequate ventilation.

Storage

Suitable storage conditions
- Store away from incompatible materials (see Section 10 of the SDS).

Incompatible materials
- Strong oxidising agents.

Safe packaging materials
- Store in original tightly closed container.

8. Exposure controls/personal protection

Workplace exposure limits

New Zealand. WES. (Workplace Exposure Standards)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene glycol (CAS 57-55-6)</td>
<td>TWA</td>
<td>474 mg/m³</td>
<td>Vapor and particulates.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m³</td>
<td>Particulate.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>150 ppm</td>
<td>Vapor and particulates.</td>
</tr>
<tr>
<td>Sodium molybdate (CAS 7631-95-0)</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium molybdate (CAS 7631-95-0)</td>
<td>TWA</td>
<td>0.5 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
</tbody>
</table>

UK. EH40 Workplace Exposure Limits (WELs)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene glycol (CAS 57-55-6)</td>
<td>TWA</td>
<td>474 mg/m³</td>
<td>Total vapour and particulates.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m³</td>
<td>Particulate.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>150 ppm</td>
<td>Total vapour and particulates.</td>
</tr>
<tr>
<td>Sodium molybdate (CAS 7631-95-0)</td>
<td>STEL</td>
<td>10 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>5 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
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<td>TWA</td>
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<td>Total vapour and particulates.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m³</td>
<td>Particulate.</td>
</tr>
</tbody>
</table>
Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium molybdate (CAS 7631-95-0)</td>
<td>TWA</td>
<td>150 ppm</td>
<td>Total vapour and particulates.</td>
</tr>
<tr>
<td>TWA 5 mg/m3 Sodium molybdate (CAS 7631-95-0)</td>
<td></td>
<td>5 mg/m3</td>
<td>Particulate. Particulates.</td>
</tr>
</tbody>
</table>

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene glycol (CAS 57-55-6)</td>
<td>TWA</td>
<td>474 mg/m3</td>
<td>Total vapour and particulates.</td>
</tr>
<tr>
<td>TWA 10 mg/m3 Propylene glycol (CAS 57-55-6)</td>
<td></td>
<td>10 mg/m3</td>
<td>Particulate.</td>
</tr>
<tr>
<td>150 ppm Propylene glycol (CAS 57-55-6)</td>
<td></td>
<td>150 ppm</td>
<td>Total vapour and particulates.</td>
</tr>
<tr>
<td>Sodium molybdate (CAS 7631-95-0)</td>
<td>TWA</td>
<td>5 mg/m3</td>
<td>Particulate. Particulates.</td>
</tr>
</tbody>
</table>

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

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.

Skin protection
Weard suitable protective clothing.

Eye/face protection
If contact is likely, safety glasses with side shields are recommended. Eye wash fountai is recommended.

Radioactive or thermal hazards
Follow standard monitoring procedures.

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
Light. Blue green.
Odour
Mild.
Odour threshold
Not available.
pH
8
Melting point/freezing point
-15 °C (5 °F)
Boiling point, initial boiling point, and boiling range
> 104.44 °C (> 220 °F)
Flash point
Not available.
Auto-ignition temperature
Not applicable.
Flammability (solid, gas)
Not applicable.
Flammability limit - lower (%)
Not applicable.
Flammability limit - upper (%)
Not applicable.
Vapour pressure
Not applicable.
Vapour density
1
Evaporation rate
Not available.
Relative density
1.1 - 1.4 g/cc (Water = 1)
Density
Not available.
Solubility (water)
100 %
Partition coefficient (n-octanol/water) Not available.

Decomposition temperature Not available.

Viscosity 60000 cps Brookfield

Other data

Explosive properties Not explosive.

Oxidising properties Not oxidising.

VOC (Weight %) < 1.5 % (Calculated)

10. Stability and reactivity

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

Stability Material is stable under normal conditions.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidising agents.

Hazardous decomposition products No hazardous decomposition products are known.

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

11. Toxicological information

Information on likely routes of exposure

Ingestion Expected to be a low ingestion hazard.

Inhalation No adverse effects due to inhalation are expected.

Skin contact Prolonged contact may cause dryness of the skin.

Eye contact Direct contact with eyes may cause temporary irritation.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene glycol (CAS 57-55-6)</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>20800 mg/kg</td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>22000 mg/kg</td>
</tr>
<tr>
<td>LD50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium molybdate (CAS 7631-95-0)</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>Rat</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>Inhalation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>&gt; 1930 mg/m³</td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>4233 mg/kg</td>
</tr>
</tbody>
</table>

Routes of exposure Skin contact. Eye contact.

Symptoms Direct contact with eyes may cause temporary irritation.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

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

Respiratory sensitizer Not a respiratory sensiser.

Skin sensitizer 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.

Toxic to reproduction This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure No data available.

Specific target organ toxicity - repeated exposure No data available.

Aspiration hazard Not an aspiration hazard.

Chronic effects None known.
12. Ecological information

Ecotoxicological data

<table>
<thead>
<tr>
<th>Components</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene glycol (CAS 57-55-6)</td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
</tr>
<tr>
<td><em>Acute</em></td>
<td></td>
</tr>
<tr>
<td>Algae</td>
<td>EC50     19000 mg/l, 72 hours  Selenastrum capricornutum</td>
</tr>
<tr>
<td>Crustacea</td>
<td>LC50     18340 mg/l, 48 hours  Ceriodaphnia</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50     46500 mg/l, 96 hours  Pimephales promelas</td>
</tr>
<tr>
<td>Sodium molybdate (CAS 7631-95-0)</td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td>LC50     &gt; 1000 mg/l, 96 hours  Chinook salmon (Oncorhynchus tshawytscha)</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 and degradability**

No data is available on the degradability of this product.

**Bioaccumulation**

No data available for this product.

**Partition coefficient**

n-octanol/water (log Kow)

<table>
<thead>
<tr>
<th>Component</th>
<th>log Kow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene glycol (CAS 57-55-6)</td>
<td>-0.92</td>
</tr>
</tbody>
</table>

**Bioconcentration factor (BCF)**

Not available.

**Mobility**

No data available for this product.

**Other hazardous 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/information**

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

**Special precautions**

Dispose in accordance with all applicable regulations.

14. Transport information

**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

**Applicable regulations**

Sodium molybdate: HSNO: HSR004007

**New Zealand Inventory of Chemicals (NZIoC): Registration status**

Sodium molybdate (CAS 7631-95-0) HSNO Approved

16. Other information

**References**

Not available.

**Issued by**

Company name: Evident Scientific

**Prepared by**

Title: Evident Scientific

**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.

**Issue date**

19-January-2016

**Revision date**

22-November-2022