1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance/preparation: High Temperature Couplant I-2

Use of the substance/preparation: Couplant.

Version No.: 02

CAS No.: Mixture

Product code: I-2/Q7700011

Manufacturer: Evident Scientific

Supplier: 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

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS No.</th>
<th>Percent</th>
<th>EC-No.</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lubricant</td>
<td>60164-51-4</td>
<td>&gt; 90</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silicon dioxide</td>
<td>7631-86-9</td>
<td>&lt; 5</td>
<td>231-545-4</td>
<td></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: Exposure to hot material may cause thermal burns. 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: During fire, gases hazardous to health may be formed. Hydrogen fluoride.

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.

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

Hazardous combustion products: Hydrogen fluoride.

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: Avoid prolonged exposure. Keep unnecessary personnel away. In case of spills, beware of slippery floors and surfaces. For personal protection, see section 8 of the SDS.
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 SDS.

7. HANDLING AND STORAGE
Handling
Avoid prolonged exposure. Do not breathe vapour from heated material. Observe good industrial hygiene practices. It is a good industrial hygiene practice to minimise skin contact.

Storage
Store in original tightly closed container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

Egypt. OELs. Threshold limits of air pollutants in the workplace (Decree No. 388, Annex 8)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon dioxide (CAS 7631-86-9)</td>
<td>TWA</td>
<td>20 mp/ft³</td>
</tr>
</tbody>
</table>

Kenya. OEL-RL. Recommended Limit for Hazardous Chemical Substances (The Factories and Other Places of Work Rules in 2007 of the Factories and Other Places of Work Act (CAP. 514))

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon dioxide (CAS 7631-86-9)</td>
<td>TWA</td>
<td>6 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 mg/m³</td>
</tr>
</tbody>
</table>

South Africa. Recommended Exposure Limits (RELs) Regulations for Hazardous Chemical Substances, Table 2

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon dioxide (CAS 7631-86-9)</td>
<td>TWA</td>
<td>6 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 mg/m³</td>
</tr>
</tbody>
</table>

Biological limit values
No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures

Additional exposure data
Not available.

Engineering measures
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. General ventilation normally adequate.

Personal protective equipment

Respiratory protection
In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment.

Hand protection
For prolonged or repeated skin contact use suitable protective gloves. Suitable gloves can be recommended by the glove supplier.

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

Skin and body protection
Wear suitable protective clothing.

Environmental exposure controls
Environmental manager must be informed of all major releases.

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
Grease.

Colour
Off-white.

Odour
None.

pH
Not available.

Melting point/freezing point
-51.11 °C (-60 °F)

Boiling point, initial boiling point, and boiling range
Not available.

Flash point
Non flammable.
Auto-ignition temperature: > 704.44 °C (> 1300 °F)
Combustion characteristics (solid, gas): Not applicable.
Flammability limit - lower (%): Not available.
Flammability limit - upper (%): Not available.
Vapour pressure: < 0.001 torr (25 °C)
Vapour density: > 1
Solubility(ies):
   Solubility (water): Not available.
Partition coefficient (n-octanol/water): Not available.
Decomposition temperature: Not available.
Viscosity: 12 - 13 mPa·s
Other data:
   Explosive properties: Not explosive.
   Oxidising properties: Not oxidising.
   Relative density: 1.85

10. STABILITY AND REACTIVITY
Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.
Conditions to avoid: None known.
Hazardous decomposition products: In case of fire: Hydrogen fluoride.
Stability: Material is stable under normal conditions.
Materials to avoid: Strong oxidising agents.
Hazardous polymerisation: No dangerous reaction known under conditions of normal use.

11. TOXICOLOGICAL INFORMATION
Toxicological data

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Temperature Couplant I-2 (CAS Mixture)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>Rabbit</td>
<td>&gt; 17000 mg/kg</td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>&gt; 30000 mg/kg</td>
</tr>
<tr>
<td>LD50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute toxicity</td>
<td></td>
<td>Expected to be a low ingestion hazard.</td>
</tr>
<tr>
<td>Routes of exposure</td>
<td></td>
<td>Skin contact. Eye contact.</td>
</tr>
<tr>
<td>Toxicological information</td>
<td></td>
<td>Occupational exposure to the substance or mixture may cause adverse effects.</td>
</tr>
<tr>
<td>Sensitisation</td>
<td></td>
<td>Not classified.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td></td>
<td>This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.</td>
</tr>
<tr>
<td>Mutagenicity</td>
<td></td>
<td>No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.</td>
</tr>
<tr>
<td>Reproductivity</td>
<td></td>
<td>Due to lack of data the classification is not possible.</td>
</tr>
<tr>
<td>Epidemiology</td>
<td></td>
<td>No epidemiological data is available for this product.</td>
</tr>
<tr>
<td>Local effects</td>
<td></td>
<td>Direct contact with eyes may cause temporary irritation.</td>
</tr>
<tr>
<td>Symptoms and target organs</td>
<td></td>
<td>Direct contact with eyes may cause temporary irritation.</td>
</tr>
</tbody>
</table>

12. ECOLOGICAL INFORMATION
Ecotoxicological data

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Temperature Couplant I-2 (CAS Mixture)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td>Oncorhynchus mykiss</td>
<td>&gt; 1000 mg/l</td>
</tr>
<tr>
<td>Ecotoxicity</td>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>
Persistence and degradability
No data is available on the degradability of this product.

Bioaccumulation
The product is not expected to bioaccumulate.

Mobility
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 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
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
Labelling
R-phrase(s) None.

S-phrase(s) S25 Avoid contact with eyes.

Safety data sheet available for professional user on request.

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>No</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

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