

1. Identification

Product identifier High Temperature Couplant I-2

Other means of identification
Product code I-2/Q7700011

Recommended use of the chemical and restrictions on use
Recommended use Couplant.
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information
Supplier Evident Scientific Singapore PTE. LTD.
Address 25 Ubi Road 4, UBIX, #04-04/05 Singapore 408621
Telephone +65 62-50-11-18
FAX +
e-mail
Emergency telephone number CHEMTREC
 US: 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.

GHS label elements, including precautionary statements
Pictograms None.
Signal word None.
Hazard statements None.
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.
Other hazards which do not result in classification None known.
Supplemental information None.

3. Composition/information on ingredients

| Substance or mixture | Mixture | | | |
|----------------------|--------------------------|------------|-------------------|--|
| Chemical name | Common name and synonyms | CAS Number | Concentration (%) | |
| Lubricant | | 60164-51-4 | > 90 | |
| Silicon dioxide | | 7631-86-9 | < 5 | |

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.

Most important symptoms/effects, acute and delayed Direct contact with eyes may cause temporary irritation.

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| Indication of immediate medical attention and special treatment needed | Treat symptomatically. |
| General information | 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

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| Suitable extinguishing media | Use fire-extinguishing media appropriate for surrounding materials. |
| Unsuitable extinguishing media | None known. |
| Specific hazards arising from the chemical | During fire, gases hazardous to health may be formed. Hydrogen fluoride. |
| Fire fighting equipment/instructions | Move containers from fire area if you can do so without risk. |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. |
| General fire hazards | No unusual fire or explosion hazards noted. |

6. Accidental release measures

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| Personal precautions, protective equipment and emergency procedures | 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. |
| Environmental precautions | Avoid discharge into drains, water courses or onto the ground. |
| Methods and materials for containment and 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

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| Precautions for safe handling | Avoid prolonged exposure. Do not breathe vapor from heated material. Observe good industrial hygiene practices. It is a good industrial hygiene practice to minimize skin contact. For prolonged or repeated skin contact use suitable protective gloves. |
| Conditions for safe storage, including any incompatibilities | Store in original tightly closed container. |

8. Exposure controls/personal protection

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| Control parameters/Occupational exposure limits | No exposure limits noted for ingredient(s). |
| Appropriate engineering control 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. |
| Individual protection measures, such as personal protective equipment | |
| 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 | Wear suitable protective clothing. |
| Respiratory protection | In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment. |
| Thermal hazards | Wear appropriate thermal protective clothing, when necessary. |
| 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 and chemical properties

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| Appearance | |
| Physical state | Liquid. |
| Form | Grease. |
| Color | Off-white. |
| Odor | None. |
| Odor threshold | Not available. |

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| pH | Not available. |
| Melting point/freezing point | -60 °F (-51.11 °C) |
| Initial boiling point and boiling range | Not available. |
| Flash point | Non flammable. |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not applicable. |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | < 0.001 torr (25 °C) |
| Vapor density | > 1 |
| Relative density | 1.85 |
| Solubility(ies) | |
| Solubility (water) | Not available. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | > 1300 °F (> 704.44 °C) |
| Decomposition temperature | Not available. |
| Viscosity | 12 - 13 mPa·s |
| Other data | |
| Explosive properties | Not explosive. |
| Oxidizing properties | Not oxidizing. |

10. Stability and reactivity

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| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Chemical stability | Material is stable under normal conditions. |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. |
| Conditions to avoid | None known. |
| Incompatible materials | Strong oxidizing agents. |
| Hazardous decomposition products | In case of fire: Hydrogen fluoride. |

11. Toxicological information

Information on likely routes of exposure

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| Inhalation | Not relevant at normal room temperatures. When heated, harmful vapors may be formed. |
| Skin contact | No adverse effects due to skin contact are expected. |
| Eye contact | Direct contact with eyes may cause temporary irritation. |
| Ingestion | No adverse effects due to ingestion are expected. |

Acute toxicity Expected to be a low ingestion hazard.

| Product | Species | Test Results |
|---|---------|---------------|
| High Temperature Couplant I-2 (CAS Mixture) | | |
| Acute | | |
| <i>Dermal</i> | | |
| ALD | Rabbit | > 17000 mg/kg |
| <i>Oral</i> | | |
| LD50 | Rat | > 30000 mg/kg |

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| Symptoms | Direct contact with eyes may cause temporary irritation. |
| Skin corrosion/irritation | No adverse effects due to skin contact are expected. |
| Serious eye damage/eye irritation | Direct contact with eyes may cause temporary irritation. |
| Respiratory or skin sensitization | |
| Respiratory sensitization | Due to lack of data the classification is not possible. |

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| Skin sensitization | This product is not expected to cause skin sensitization. |
| 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 | Due to lack of data the classification is not possible. |
| Specific target organ toxicity - single exposure | Due to lack of data the classification is not possible. |
| Specific target organ toxicity - repeated exposure | Due to lack of data the classification is not possible. |
| Aspiration hazard | Not an aspiration hazard. |
| Chronic effects | Not available. |

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.

| Product | Species | Test Results |
|---|---|--------------|
| High Temperature Couplant I-2 (CAS Mixture) | | |
| Aquatic | | |
| Fish | Oncorhynchus mykiss | > 1000 mg/l |
| Persistence and degradability | No data is available on the degradability of this product. | |
| Bioaccumulative potential | The product is not expected to bioaccumulate. | |
| Mobility in soil | No data available. | |
| 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/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

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

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 specific for the product in question

Controlled Narcotic Drugs (Misuse of Drugs Act, First Schedule, Part I, II & III)

Not regulated.

Controlled Specified Drugs (Misuse of Drugs Act, Fourth Schedule)

Not regulated.

Prior Informed Consent (PIC) Substances (Environment Protection and Management Act, 2nd Schedule, Part 1, Jul. 1, 2013)

Not regulated.

Chemical Weapons Prohibition (Act)

Not applicable.

Environmental Protection and Management (Hazardous Substances) Regulations

Not applicable.

Environmental Public Health Act

Not applicable.

International regulations

Montreal Protocol

Not applicable.

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*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

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|----------------------|---|
| References | Not available. |
| Issued by | |
| Company name | Evident Scientific |
| Prepared by | |
| Title | Evident Scientific |
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