SAFETY DATA SHEET



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

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

Couplant. Use of the

substance/preparation

02 Version No. Mixture CAS No. **Product code** I-2/Q7700011

Manufacturer

Evident Scientific Supplier

Address 48 Woerd Ave. Waltham, MA 02453, USA

+1 781-419-3900 **Telephone Emergency telephone CHEMTREC**

number

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

Components	CAS No.	Percent	EC-No.	Classification
Lubricant	60164-51-4	> 90		
Silicon dioxide	7631-86-9	< 5	231-545-4	

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.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Rinse mouth. Get medical attention if symptoms occur. Ingestion

General advice 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

None known.

Hydrogen fluoride.

reasons

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

6. ACCIDENTAL RELEASE MEASURES

Containment procedures Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Avoid prolonged exposure. Keep unnecessary personnel away. In case of spills, beware of Personal precautions

slippery floors and surfaces. For personal protection, see section 8 of the SDS.

High Temperature Couplant I-2 SDS Africa

934863 Version #: 02 Revision date: 22-November-2022 Issue date: 23-August-2016 **Environmental precautions**

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.

Store in original tightly closed container. Storage

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

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

Components	Туре	Value	
Silicon dioxide (CAS	TWA	20 mp/ft3	
7631-86-9)			

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))

Components	Туре	Value	Form
Silicon dioxide (CAS 7631-86-9)	TWA	6 mg/m3	Total inhalable dust.
		3 mg/m3	Respirable dust.

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

Components	Туре	Value	Form
Silicon dioxide (CAS 7631-86-9)	TWA	6 mg/m3	Total inhalable dust.
,		3 mg/m3	Respirable dust.

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

Recommended monitoring procedures

Additional exposure data Not available.

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates **Engineering measures**

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.

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

recommended.

Skin and body protection

Wear suitable protective clothing.

Environmental exposure controls

Hygiene measures

Environmental manager must be informed of all major releases.

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

Liquid. Physical state Form Grease Off-white. Colour None. Odour

Not available. pН -51.11 °C (-60 °F) Melting point/freezing point Boiling point, initial boiling Not available. point, and boiling range

Non flammable. Flash point

High Temperature Couplant I-2 SDS Africa 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 Not available.

(n-octanol/water)

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

ReactivityThe 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

Product Species Test results

High Temperature Couplant I-2 (CAS Mixture)

Acute

Dermal

ALD Rabbit > 17000 mg/kg

Oral

LD50 Rat > 30000 mg/kg

Acute toxicity Expected to be a low ingestion hazard.

Routes of exposure Skin contact. Eye contact.

Toxicological information Occupational exposure to the substance or mixture may cause adverse effects.

Sensitisation Not classified.

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.

ReproductivityDue to lack of data the classification is not possible.EpidemiologyNo epidemiological data is available for this product.Local effectsDirect contact with eyes may cause temporary irritation.Symptoms and target organsDirect contact with eyes may cause temporary irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicological data

Product Species Test results

High Temperature Couplant I-2 (CAS Mixture)

Aquatic

Fish Oncorhynchus mykiss > 1000 mg/l

EcotoxicityThe 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.

High Temperature Couplant I-2 SDS Africa

Persistence and degradability No data is available on the degradability of this product.

The product is not expected to bioaccumulate. **Bioaccumulation**

Mobility No data available for this product.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

13. DISPOSAL CONSIDERATIONS

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

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 Not applicable.

the IBC Code

15. REGULATORY INFORMATION

Labelling

Disclaimer

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

Country(s) or region Inventory name On inventory (yes/no)* Europe European Inventory of Existing Commercial Chemical Nο

Substances (EINECS)

Europe European List of Notified Chemical Substances (ELINCS)

*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).

> 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.

Nο

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