SAFETY DATA SHEET

1. Product and company identification

Product name **High Temperature Couplant I-2**

Product code I-2/Q7700011

Supplier Olympus Australia Pty Ltd

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Recommended use and Limitations on use

Recommended use Couplant.

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.

Supplemental information None.

3. Composition/information on ingredients

Substance or mixture Mixture

Chemical property	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.

Potential delayed effects Direct contact with eyes may cause temporary irritation.

Personal protection for first-aid responders 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.

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. Hydrogen fluoride.
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	Hydrogen fluoride.
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	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.
Spill cleanup methods	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. Do not breathe vapour from heated material.
Prevention of fire and explosion	No specific recommendations.
Local and general ventilation	Provide adequate ventilation.

Storage

Suitable storage conditions	Protect against direct sunlight.
Incompatible materials	Strong oxidising agents.
Safe packaging materials	Store in original tightly closed container.

8. Exposure controls/personal protection

Workplace exposure limits

No exposure limits noted for ingredient(s).

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 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.
Skin protection	Wear suitable protective clothing.
Eye/face protection	If contact is likely, safety glasses with side shields are recommended. Eye wash fountain 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	Grease.
Colour	Off-white.
Odour	None.
Odour threshold	Not available.

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)
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.
Vapour pressure	< 0.001 torr (25 °C)
Vapour density	> 1
Evaporation rate	Not available.
Relative density	1.85
Density	Not available.
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.

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	None known.
Incompatible materials	Strong oxidising agents.
Hazardous decomposition products	In case of fire: Hydrogen fluoride.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.

11. Toxicological information

Information on likely routes of exposure

Ingestion	No adverse effects due to ingestion are expected.
Inhalation	Not relevant at normal room temperatures. When heated, harmful vapours may be formed.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Acute toxicity	Expected to be a low ingestion hazard.

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

Routes of exposure	Skin contact. Eye contact.
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 sensitizer	Due to lack of data the classification is not possible.
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.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Toxic to reproduction	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	None known.
Relevant negative data	No data available.

12. Ecological information

Ecotoxicological data

Product	Species	Test results
High Temperature Couplant I-2 (CAS Mixture)		
Aquatic		
Fish	Oncorhynchus mykiss	> 1000 mg/l

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	The product is not expected to bioaccumulate.
Partition coefficient n-octanol/water (log Kow)	Not available.
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	No further national regulatory information.

16. Other information

References	Not available.
Issued by	
Company name	Olympus
Prepared by	
Title	Olympus

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