

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

Substance or preparation trade name: TDO1
Application: Dielectric Oil
Company: Siemens Subsea Connectors
Address: Ulverston
 Cumbria
 LA12 9EE
 United Kingdom
Telephone: Redacted
Fax:
Emergency telephone number:

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

This substance is not classified as dangerous according to Directive 67/548/EEC (DSD) as amended and adapted.

This substance is not classified as dangerous according to Regulation (EC) No. 1272/2008 (CPL/GHS)

2.2 Label elements

Signal word	No signal word
Hazard statements	No known significant effects or critical hazards
Precautionary statements	
Prevention	Not applicable
Response	Not applicable
Storage	Not applicable
Disposal	Not applicable

2.3 Other hazards which do not result in classification

Eye: May cause mild eye irritation
Skin: Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis
Inhalation: Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation
Ingestion: Ingestion may cause gastrointestinal irritation and diarrhoea

3. COMPOSITION

Composition: White Mineral Oil

<u>Hazardous Ingredients</u>	<u>%</u>	<u>Nature of Hazard</u>
None		Not classified

Refer to Section 8 for Occupational Exposure Limits.

4. FIRST AID MEASURES

4.1 Description of first aid measures

- Skin contact:** Wash affected area with soap and water.
- Eye contact:** Irrigate immediately with large quantities of clean water for several minutes. Seek medical attention if irritation occurs
- Ingestion:** Do not induce vomiting. Seek medical attention. Never give anything by mouth to an unconscious person.
- Inhalation:** Remove from exposure. Get medical attention if symptoms appear

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for further information.

4.3 Indication of any immediate medical attention or special treatment needed

Treatment should in general be symptomatic and directed to relieving any effects.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

- Suitable extinguishing media:** Carbon Dioxide, Powder, Foam or Water Fog.
- Unsuitable extinguishing media:** Do not use Water Jet.

5.2 Special hazards

- Hazards from the substance or mixture:** In a fire, or if heated, the container may burst due to increase in pressure.
- Hazardous combustion products:** Combustion products may include carbon monoxide and carbon dioxide.

5.3 Advice for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) if required.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions:** Spillages present a slip hazard.
- 6.2 Environmental precautions:** Prevent contact with soil and entry into drains, sewers and water courses. Inform the relevant authorities if the product has caused pollution.
- 6.3 Methods for clean-up:** Soak up with inert absorbent material and transfer into a suitable container for disposal in accordance with local regulations.

7. HANDLING AND STORAGE

- 7.1 Handling:** To avoid the possibility of skin disorders, repeated or prolonged contact with products of this type must be avoided. A high standard of personal hygiene must be maintained.
- 7.2 Storage:** Keep container tightly closed. Keep container in a cool, well ventilated area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Occupational Exposure Limits:

<u>Substance</u>	<u>LTEL</u>	<u>STEL</u>	<u>Source / Other Information</u>
Mineral Oil (as mist)	5 mg/m ³	10 mg/m ³	EH40

8.2 Exposure Controls

- Engineering control measures:** Provide local exhaust ventilation if mists or aerosols are likely to be generated during use.
- Personal protection measures:** Avoid skin and eye contact. Wear safety glasses with side shields and protective gloves (e.g. PVC, Nitrile, etc) for prolonged or repeated contact. Change contaminated clothing and launder before re-use. After use, wash hands thoroughly with soap and water, particularly before eating, drinking or smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Appearance:	Colourless Liquid
Odour:	Mild
Kinematic Viscosity:	70 cSt at 40°C
Boiling point:	Above 250°C
Flashpoint:	266°C
Explosive properties:	Not determined
Relative density:	Below 1.0
Solubility in Water:	Insoluble

9.2 Other Information

No additional information

10. STABILITY AND REACTIVITY

10.1 Reactivity:	Under normal conditions of storage and use, hazardous reactions or polymerisation will not occur.
10.2 Stability:	Stable under normal conditions.
10.3 Hazardous Reactions	Under normal conditions of storage and use, hazardous reactions or polymerisation will not occur.
10.4 Conditions to avoid:	Avoid sources of ignition and temperatures above 120°C.
10.5 Materials to avoid:	Strong oxidising agents.
10.6 Hazardous decomposition products:	None known under normal conditions of storage and use.

11. TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**

Aspiration Hazard: Not Classified
Likely Exposure Routes: Dermal, inhalation

Potential acute health effects

Inhalation: Inhalation unlikely at ambient temperatures.
Ingestion: No known significant effects or critical hazards.
Skin contact: Unlikely to cause harm on brief or occasional contact. May cause defatting of the skin leading to dryness and irritation.
Eye contact: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition occurs.
Ingestion: No specific data.
Skin contact: Adverse symptoms may include irritation, dryness and cracking.
Eye contact: No specific data.

Delayed and immediate effects and chronic effects from short and long term exposure

Inhalation: Overexposure by inhalation of mists or aerosols may cause irritation of the respiratory tract.
Ingestion: Ingestion of large quantities may cause nausea and diarrhoea
Skin contact: Prolonged or repeated contact can defat the skin and lead to irritation and / or dermatitis.
Eye contact: May cause transient irritation or redness if eye contact occurs.

Potential chronic health effects

General: No known significant effects or critical hazards.
Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.
Development Effects: No known significant effects or critical hazards.
Fertility Effects: No known significant effects or critical hazards.

12. ECOLOGICAL INFORMATION**12.1 Toxicity**

Environmental Hazards: Not classified as dangerous

12.2 Persistence and degradability

Not expected to be rapidly degradable.

12.3 Bioaccumulation

This product may bioaccumulate through food chains in the environment.

12.4 Mobility in soil

Soil/water partition coefficient: Not available
Mobility: Non-volatile. Liquid. Insoluble in water.

12. ECOLOGICAL INFORMATION**12.5 Results of PTB and vPvB assessment**

PBT No
vPvB No

12.6 Other adverse effects

Other ecological information: Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Disposal must be in accordance with local and national legislation.

Unused Product: Where possible, arrange for product to be recycled..

Used Product: Dispose of through an authorised waste contractor to a licensed site in accordance with local regulations.

Packaging: Where possible arrange for product to be recycled. Must be disposed of through an authorised waste contractor in accordance with local regulations.

14. TRANSPORT INFORMATION

This product is not classified as hazardous or dangerous for transport.

ADR / RID: Not regulated
ADN: Not regulated
IMDG: Not regulated
IATA: Not regulated

15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture****EU Regulation (EC) No. 1907/2006 (REACH)****Annex XIV – List of substances subject to authorisation / Substances of very high concern.**

None of the components are listed.

Annex XVII Restrictions: Not Applicable

15. REGULATORY INFORMATION**Other regulations**

Unites States Inventory (TSCA 8b)	All components are listed or exempted
Australia Inventory (AICS)	All components are listed or exempted
Canada Inventory	All components are listed or exempted
China Inventory (IECSC)	All components are listed or exempted
Japan Inventory (ENCS)	All components are listed or exempted
Korea Inventory (KECI)	All components are listed or exempted
Philipines Inventory (PICCS)	All components are listed or exempted
Taiwan Inventory (CSNN)	All components are listed or exempted

16. OTHER INFORMATION**Abbreviations and acronyms**

ADN	European Provisions concerning the International carriage of Dangerous Goods by Inland Waterway.
ADR	European Agreement concerning the International carriage of Dangerous Goods by Road.
CLP	Classification, Labelling and Packaging Regulation (Regulation (EC) No. 1272/2008)
DPD	Dangerous Preparations Directive (1999/45/EC)
DSD	Dangerous Substances Directive (67/548/EEC)
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
PBT	Persistent, Bioaccumulative and Toxic
RID	The Regulations concerning the International carriage of Dangerous Goods by Rail.
TWA	Time weighted average
vPvB	Very persistent and very bioaccumulative

Full text of abbreviated H statements: Not applicable

Full text of classifications (CLP/GHS) Not applicable

Full text of abbreviated R phrases: Not applicable

Full text of classifications (DSD/DPD) Not applicable