

Material Safety Data Sheet



Revision Number: 1

Revision Date: September 15, 2022

Section 1: Identification of the Substance and Company

Product Name:	DETOS-DEHT
Product Use:	Heat Transfer Oil
Identification of Substance:	Mixture of petroleum base oil and additives.
Company Identification:	DETOS (Pvt.) Limited
Address:	Head Office 245/2-J Block VI, P.E.C.H.S, Karachi-75400
Contact Number:	+92-21-34300728-9
Email:	customer.service@detos.com.pk
Website:	www.detos.com.pk

Section 2: Substance Composition

Components: Petroleum base stock and specified additive.

Section 3: Hazards Identification

Important Hazards:	This product is of low oral and dermal toxicity and under normal conditions of use should present no significant health hazards. However, in common with most mineral oils, prolonged and repeated skin contact may cause dermatitis. Handling precautions must be strictly observed.
General Information:	Any substance, in case of accidents involving pressurized circuits and the like, may be accidentally injected under the skin, even without external damage. In such a case, the affected individual should seek medical attention immediately.

Section 4: First-Aid Measures

Skin Contact:	Remove contaminated clothing and shoes. Wash thoroughly with soap and water.
Eye Contact:	Flush with large amounts of water; if irritation persists, seek medical attention.
Ingestion:	Do not induce vomiting to avoid aspiration into the lungs; seek medical attention.
Aspiration of Liquid into the Lungs:	If there is a possibility that the product has been aspirated into the lungs (i.e. in case of spontaneous vomiting), seek medical attention.
Inhalation:	In case of exposure to a high concentration of vapors, remove the victim from exposure, if necessary, seek medical attention.

Section 5: Fire-Fighting Measures

Extinguishing Media:	> Suitable: Carbon dioxide, dry chemicals, foam, water, sprays (fog) and sand. > Warning: Water jets are prohibited due to the risk of splattering which may spread fire.
Other Information:	Spilled product that is not burning should be covered with sand or foam. Use water sprays to cool the surfaces exposed to the flames.
Special Protective Equipment for Firefighters:	Wear appropriate protective gear including fireproof garments, helmets, and suitable breathing apparatus if smoke is present.
Useful Precautions:	Avoid accidental sprays (i.e. from broken coupling) on hot surfaces or electrical contacts (switches, outlets etc.). In case of losses from pressurized circuits, the sprays may form oil mists.

Section 6: Accidental Release Measures

General Measures:	Shut off sources to the spill and follow prescribed methods for cleanup. > On Soil: Contain spilled liquid with sand, earth or other suitable absorbents. Clean contaminated area and dispose of according to local regulations. > On Water: Confine spillage, remove from the surface by skimming or use suitable absorbents and notify local authorities according to regulations.
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Section 7: Handling and Storage

Storage Temperature:	Ambient to 65°C.
Handling:	Store the product in a cool, dry and well-ventilated place. Keep away from sources of ignition.

Section 8: Exposure Controls/Personal Protection

Exposure Limits:	TLV-TWA 5mg/m ³ (mineral oil mists).
Personal Protection:	> Open Spaces: No special measures. > Confined Spaces: Aspirators should be used in case of oil mist. Protective shields should be used in case of oil splashes. Mineral oil resistant gloves and overalls should be worn while using the product. Gloves must be felt-lined.
Hand/Eye/Skin Protection:	Do not breathe in any vapors or mists. Do not drink, eat or smoke with contaminated hands. Wash hands before using the toilet.
Health Measures:	Do not clean hands with contaminated or oil-soaked rags. Change contaminated clothes and wash hands with water and soap. Do not use solvents or other irritant products which affect the skin.

Section 9: Physical and Chemical Properties (Typical Values)

Appearance:	Liquid, bright and clear.
Odor:	Mild.
Color:	From L 0.5 to 3.5 (according to the specific product) (ASTM D 1500)
Density at 15°C:	From 822 to 865 kg/m ³ (according to the specific product) (ASTM D 1298)
Boiling Point/Range:	>200°C (at 10 mmHg) (ASTM D 1160)
Viscosity at 40°C:	From all ISO-Viscosity Grade (according to the specific product) (ASTM 445)
Viscosity at 100°C:	From all ISO- Viscosity Grade (according to the specific product) (ASTM 445)
Solubility in Water:	Insoluble in water.
pH:	Not applicable.
Pour Point:	From -9°C to -24°C (according to the specific product) (ASTM D 97)
Flash Point:	From 170°C to 280°C (according to the specific product) (ASTM D 92)
Auto-Ignition Temperature:	> 320°C

Section 10: Stability and Reactivity

Stability:	Stable product.
Hazardous Reactions:	None.
Materials to Avoid:	Strong oxidants.

Section 11: Toxicological Information

Does not cause irritation to eyes and skin unless in direct contact.
Minor irritation may occur after prolonged or repeated contact, especially if procedural hygienic rules are not followed.
None of the components of this product are listed as carcinogenic.

Section 12: Ecological Information

General Information:	This product is known to be resistant to biodegradation. According to the components, this product has toxicity for aquatic organisms at 100 mg/l, and therefore is not regarded as dangerous to the environment. Handle according to general working hygiene practices to avoid pollution and release into the environment.
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Section 13: Disposal Considerations

Disposal of Product:	Do not dispose of the product, either new or used, by discharging into sewers, tunnels, lakes or watercourses. Deliver to an authorized collector.
Disposal of Packaging:	Dispose of safely, in accordance with local regulations.

Section 14: Transport Information

RID/ADR:	Does not belong to any class of danger.
ICAO/IATA:	Does not belong to any class of danger.
IMO-IMDG code:	Does not belong to any class of danger.

Section 15: Regulatory Information

Application Laws and Regulations:	National laws on classification and labelling of dangerous substances/preparations. Relevant national laws on health and safety in the workplace. Relevant national laws on recycling and re-use of waste materials. Relevant national laws on the prevention of water pollution.
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This information relates only to the specified product and may not be valid if the product is used in combination with any other material or processes.

The information in these sheets is according to our best knowledge at the date of printing.

