

Material Safety Data Sheet



Revision Number: 1

Revision Date: April 1, 2022

Section 1: Identification of the Substance and Company

Product Name: DETOS-DEM-WS
Product Use: Designed for use for water soluble cutting.
Identification of Substance: Mixture of petroleum base oil and specified additives for non-soluble/neat cutting oil
Company Identification: DETOS (Pvt.) Limited
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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, as with most mineral oils, prolonged and repeated skin contact may cause dermatitis. Handling precautions must be strictly observed.

General Information: In case of accidents involving pressurized circuits or other such circumstances, medical help should be sought immediately.

Section 4: First-Aid Measures

Skin Contact: In case of contact with skin, wash affected areas with soap and water and remove contaminated clothing immediately. If irritation persists, seek medical attention immediately.

Eye Contact: In case of contact with eyes, flush eyes with water immediately. If irritation persists, seek medical attention immediately.

Ingestion: In case of ingestion, do not induce vomiting. Seek medical attention immediately.

Aspiration of Liquid into the Lungs: In case of aspiration into the lungs, seek medical attention immediately.

Inhalation: In case of exposure to high concentration of vapors, remove the affected individual from exposure and 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. Beware that the lower explosion limit for oil mists is about 45 g oil/m ³ of air.

Section 6: Accidental Spill 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 40°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.
Hand/Eye/Skin Protection:	Mineral oil resistant gloves and overalls should be worn while using the product. Gloves must be felt-lined.
Health Measures:	Do not breathe in any vapors or mists. Do not drink, eat or smoke with contaminated hands. Wash hands before using the toilet. 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:	Slight hydrocarbon.
Color:	From L 0.5 to 3.5 (according to the specific product) (ASTM D 1500).
Density at 15°C:	From 815 to 925 kg/m ³ (according to the specific product) (ASTM D 1298).
Boiling Point/Range:	No data available.
Viscosity at 40°C:	19.5 - 35.5 (ASTM 445).
Viscosity at 100°C:	2.5 - 5.5 (ASTM 445).
Solubility in Water:	Soluble in water.
pH:	6~8 at 5% dilution.
Pour Point:	No data available.
Flash Point:	From COC 70°C (158°F) (Minimum).
Auto-Ignition Temperature:	No data available.

Section 10: Stability and Reactivity

Stability:	Emulsion stability, 24-hrs 5% in water.
Hazardous Reactions:	None.
Materials to Avoid:	Hazardous polymerization will not occur.

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 labeling 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.



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