

Material Safety Data Sheet

Hydraulic Oil 32

1. Identification of the Substance/Preparation

Substance or Preparation Trade Name: Hydraulic Oil 32

2. Hazards Identification

2.1 Classification of the substance or mixture

Not classified as hazardous in accordance with CLP (EC 1272/2008) and DPD (1999/45/EC)

2.2 Label Elements

No labelling required
(P102) Keep out of reach of children
(P280) Wear protective gloves/protective clothing/eye protection/face protection

2.3 Other Hazards

Not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 DMSO test.

3. Composition

3.2 Mixtures

Ingredients	EC No.	REACH Reg No.	GHS Classification	DSD Classification	Conc. %
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No hazardous ingredients present at a concentration at or exceeding the Declaration of Content Limit

4. First Aid Measures

Inhalation:

Remove the affected person to fresh air. If recovery is not rapid, obtain medical attention

Skin Contact:

Wash the affected parts of the body with soap and water. Change contaminated clothing. Dry clean and launder before re-use. No emergency measures are necessary but if adverse skin effects follow, refer for medical attention.

Ingestion:

Do not induce vomiting. Wash out mouth with water and seek immediate medical attention. Drinking water may

Eye Contact:	be beneficial. Treat symptomatically Flush eyes immediately with fresh water for at least 15 minutes while holding the eyelids open. No emergency measures are necessary but if adverse eye effects follow, refer for medical attention.
Pressure Injection:	Obtain immediate medical attention even though the injury may appear minor.

5. Fire Fighting Measures

Flash Point:	Typical 220°C (COC)
Extinguishing Media:	Foam, Dry Chemical, Carbon Dioxide, Water Mist
Specific Exposure Hazards:	Combustion can produce carbon monoxide, carbon dioxide, water vapour, unburnt hydrocarbons, partially oxidised organic compounds and unidentified inorganic compounds, some of which may be toxic.
Specific Protective Equipment for Fire Fighters:	Use self-contained breathing equipment when fighting fire in confined spaces. Material floats on water. Water may be used to cool containers exposed to fire.
Explosion Data:	Material does not have explosive properties..

6. Accidental Release Measures

Personal Precautions:	Surfaces may become slippery after spillage.
Environmental Precautions:	Water may be used to flush spills away from sources of ignition. Do not allow the product to enter public drainage system or open water courses. Bund using absorbent granules, sand, earth or proprietary equipment. Reclaim liquid directly or soak in an absorbent medium and transfer to a suitable marked container.
Spillage Procedure:	Personal Protective Equipment (PPE) must be worn (see Section 8). Ventilate area and prevent entry into sewers and waterways. Collect free liquid for recycling or disposal. Residual material can be collected using absorbent material.
Absorbent Materials:	Sand, active clay or absorbent sheeting.
Disposal of Spillage:	By incineration or via authorised / licensed waste disposal contractor. Disposal must be in accordance with local regulations and current national legislation.

7. Handling and Storage

Handling:	Avoid contact with the eyes – wear chemical protective goggles when handling the product. Protective clothing such as impervious gloves should be worn if skin contact is anticipated. Protective clothing should be regularly inspected and maintained. The use of barrier and after work creams may be beneficial.
Storage:	Store under cover in a cool and dry location. Avoid exposure to high heat and sources of ignition.

8. Exposure Controls / Personal Protection

Exposure Limits:	None
Ventilation Procedures:	Use with adequate ventilation.
Eye Protection:	Chemical resistant goggles should be worn when handling, or where any risk of splashing is likely.

Skin Protection: Where prolonged or repeated contact is unavoidable wear impervious gloves when handling the product.. The use of appropriate barrier and after work creams may be beneficial and gloves should be considered whenever their use is practicable and safe. Change heavily contaminated clothing and overalls as soon as possible.

9. Physical and Chemical Properties

Physical State: Liquid
Colour: Amber to Light Brown
Relative Density: 0.860 – 0.880 g/ml at 15°C
Boiling Range: > 280°C estimated
Viscosity: Typical, 32cSt at 40°C
Pour Point: Typical, -30°C
Flash Point: > 220°C, (ASTM D93, PMCC)

10. Stability and Reactivity

Stability: Material is stable at moderately elevated temperatures and pressures. May react with strong oxidising agents, especially at high temperatures.

Conditions to Avoid: Avoid extreme temperatures, Preferably store between 5°C to 39°C.

Materials to Avoid: Strong oxidising agents (e.g. chlorates, peroxides)

Decomposition Products: Hazardous decomposition products are not formed when stored under normal conditions. Incomplete combustion or thermal decomposition may generate such materials as: particulate matter and unburnt hydrocarbons; oxides of carbon; water; partially oxidized organic compounds.

11. Toxicological Information

This material is characterised as non-toxic because it shows the following characteristics(*based on data from components and similar products):

Eye Irritation: Unlikely to cause more than transient stinging or reddening if accidental eye contact occurs.

Skin Irritation: Not expected to be a primary skin irritant*. Prolonged or repeated skin contact may lead to dermatitis.

Respiratory Irritation: Prolonged exposure to oil mists / vapours may cause irritation of mucous membranes and the upper respiratory tract.*.

Dermal Toxicity: LD50 > 2000 mg/kg* (rabbits)

Inhalation Toxicity: No data suggest product is hazardous in this area

Oral Toxicity: LD50 > 5000 mg/kg* (rabbits)

Dermal Sensitization: No data available to indicate product or components may be a skin sensitizer

Inhalation Sensitization: No data available to indicate product or components may be respiratory sensitizers

Chronic Toxicity: No data available to indicate product or components present at greater than 1.0% are chronic health hazards

Carcinogenicity: No data available to indicate product or components present at greater than 0.1% may present a carcinogenic hazard

Reproductive Toxicity: No data available to indicate product or components

	present at greater than 0.1% may cause reproductive toxicity
Teratogenicity:	No data available to indicate product or components present at greater than 0.1% may cause birth defects
Other:	No other health hazards known Contains mineral oil. Under working conditions which may generate mists observe the US OSHA PEL of 5 mg.m ⁻³ and ACGIH STEL of 10 mg.m ⁻³

12. Ecological Information

Environmental Fate: Because of its low density this material floats on water. Since it consists of relatively low molecular weight paraffinic substances, small spillages into water will be dispersed by evaporation and/or biodegradation.

Aquatic Toxicity (fish):	LC50 >400,000ppm in 96h – Rainbow Trout (0% mortality)
Aquatic Toxicity (algae):	not established.
Aquatic Toxicity (invertebrate):	LC50 > 500,000ppm in 96h – Mysidopsis bahia
Mobility:	This material will float on water. For other Physio-chemical properties see Section 9.
Biodegradation:	Inherently Biodegradable (OECD 301B 50% in 28 days)
Bioaccumulation Potential:	Bioaccumulation is unlikely due to the very low water solubility of this product. Bioavailability to aquatic organisms is minimal.
Other Ecological Information:	Although not toxic to vertebrates and invertebrates, spilled material may affect organisms (especially small invertebrates) by physical smothering leading to or by deoxygenation of the water below the oil film.

13. Disposal Considerations

Waste Disposal:	All means of disposal should comply with local and national regulations. Dispose of product and containers carefully and responsibly. Do not allow product to contaminate ponds, water courses, soil or drains. Do not dispose in drains.
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14. Transport Information

This material is not classified as dangerous for transport under current EC and International legislation.

UN No:	Not classified.
RID/ADR:	Not classified.
IMO:	Not classified.
IATA/ICAO:	Not classified.
Marine Pollution Category	Marpol 73/78 Annex I

15. Regulatory Information

EC Dangerous Substances / Preparations Classification:	This material is not classified as dangerous for supply under current EC legislation
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Risk Phrases:
Safety Phrases:

None
None