



Material Safety Data Sheet

Hydraulic Oil 32

Date Prepared: 11th Jan 2010

1. Identification of the Substance/Preparation and the Company/Undertaking

Substance or Preparation Trade Name: Hydraulic Oil 32
Unique Reference Number(s):
Company/Undertaking Name Euro Oils Ltd,

2. Composition

Description: A blend of highly refined mineral oils formulated with thermally and hydrolytically stable additive.
CAS No: Not applicable (mixture)
Hazardous Components No component is present at sufficient concentration to require a hazardous classification for health in accordance with EC legislation.

3. Hazards Identification

Health: When used in the application for which it is designed this substance presents no major hazard to health. For toxicological information refer to Section 11.
Environmental: This substance presents no major hazard to the environment. For Ecological Information please refer to Section 12.
Pressure Injection: Pressure injection of all products will cause severe internal damage if not promptly treated.

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 be beneficial. Treat symptomatically
Eye Contact: 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 216°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:	Pale Amber to Light Brown
Relative Density:	0.860 – 0.880 g/ml at 15°C
Boiling Range:	> 280°C estimated
Viscosity:	Typical, 32 cSt at 40°C Typical, 5.2 cSt at 100°C
Pour Point:	Typical, -30°C

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 to 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 >400,000 ppm in 96 h – Rainbow Trout (0% mortality)
Aquatic Toxicity (algae):	not established.
Aquatic Toxicity (invertebrate):	LC50 > 500,000 ppm in 96 h – Mysisidopsis 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
Risk Phrases:	None
Safety Phrases:	None

16. Other Information

DISCLAIMER:

The information and recommendations contained herein are accurate and reliable to the best knowledge and belief of Euro Oils Limited as of the date issued, but are offered without guarantee or warranty. They relate to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Conditions of use of the material are under the control of the user. Therefore, it is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use.