



Material Safety Data Sheet

MSDS has been prepared in accordance with EC Directive 93/112/EEC

Section 1 Chemical Product and Company Identification

Name lube oil density standards		
Synonyms: light mineral oils	Product type: Liquid density certified reference material	Date revised: Oct 2002 Previous: Nov 1999
Manufacturer: H & D Fitzgerald Ltd. Cefn Du, Tremeirchion, St Asaph, Clwyd, LL17 0US UK		
Prepared by: Denis Fitzgerald		
Chemical family: Hydrocarbon oils. Base lubricating oils without additives.		
Poison schedule number: None allocated		
Chemical Formula: not available		

Section 2 Composition / Information on ingredients

Substance name	C.A.S. No.	EINECS No.	% weight	HSCN (Tariff#)
Mineral oil	8042-47-5	2324558	100%	n/a

Section 3 Hazards identification

Emergency overview Clear pale to dark amber liquids Supplied sealed in a 10ml glass ampoule. Caution: None. Potential environmental effects: None in the quantity supplied in an ampoule.
Potential health effects Eyes: Minor irritant Skin: Minor irritant to some people Ingestion: May be risk if oil is aspirated into the lungs following vomiting. Chronic: None known. This material is not listed as carcinogenic.

Section 4 First Aid measures

Eyes: Wash eyes with water or normal saline. If symptoms develop, seek medical advice.
Skin: Wash with soap and water. Clean contaminated clothing before reuse
Ingestion: Do not induce vomiting. Seek medical attention without delay.

Section 5 Fire fighting measures		
Extinguishing media: Use extinguishing media appropriate for surrounding fire		
Unsuitable media: None		
Lower explosive limit: Not applicable	Upper explosive limit: Not applicable	Flash point: >170°C
Flammability classification: Not flammable	Flame propagation: Not applicable	Ignition in air: Predicted autoignition temperature > 250°C
Combustion hazards: Combustible at very high temperatures		
Protective equipment: None needed		
Unusual fire hazards: None in 10ml quantity supplied in an ampoule.		
Static charge effects: Not applicable		

Section 6 Spillage measures
Spill cleanup: Absorb on paper or sand and follow company policy for disposal of oily waste. Wash the site with detergent and water
Environmental precautions: None needed for the quantity supplied in an ampoule.

Section 7 Handling and storage
Handling precautions: None in quantity supplied
Storage precautions: Store ampoule in package until ready to use. Store in a cool place if possible (less than 25°C)

Section 8 Exposure controls and personal protection
Exposure guidelines: No occupational exposure limits established for these liquids
Personal protective equipment
Eye/Face protection: Safety glasses are recommended to minimise eye contact.
Hands: Wash hands with soap before eating or drinking.

Section 9 Physical and chemical properties		
Physical state: Liquid	Colour: Clear to dark amber	Odour: Oily
pH: None	Freezing point: n/a	Boiling point: >320°C
Miscibility with water: Immiscible with water	Density of liquid: ~860 kgm ⁻³	
Vapour pressure: <0.1 mbar at 21°C	Molecular weight: n/a	

Section 10 Stability and reactivity
Conditions to avoid: Extremes of temperature
Incompatible materials: Strong oxidising agents
Reactivity: Stable at normal temperatures and pressures
Hazardous decomposition: If heated to a high temperature, oxides of carbon and unburnt hydrocarbon vapours may be emitted.
Hazardous polymerisation: None known.

Section 11 Toxicological information

Acute effects
Acute inhalation: n/a
Acute ingestion: Not tested. May cause lung damage if swallowed
Acute skin: Not tested
Eye irritation: Not tested. May cause eye irritation
Skin irritation: Not tested. May cause skin irritation

Chronic effects
Chronic ingestion: n/a
Chronic eye: Not tested
Chronic skin: IARC classifies as having no carcinogenic potential.
Mutagenic effects: Not found
Reproductive effects: Not found
Sensitisation Not found

Section 12 Ecological information

Persistence / degradability: Biodegrades very slowly in aerobic conditions. High potential for bioaccumulation

Ecotoxicity: If spilt onto water will form a film that can coat aquatic organisms.

Section 13 Disposal

For small quantities: Follow local policy for disposal of oily waste. Disposal of these oils into watercourses or drains is a legal offence in the UK.

Observe all national and local environmental regulations.

Section 14 Transport information

UN Number	UN shipping name	UN class
Not applicable	Not regulated	Not applicable
RID /ADR	IMDG shipping name	ICAO / IATA:
Non hazardous for rail or road	Non hazardous for sea freight	Non hazardous for air freight

Section 15 Regulatory information

European classification:

Label symbols: none

Section 16 Other information

Reason for revision: changed to 93/112/EEC format

Disclaimer: H&D Fitzgerald believes that data given here is accurate. It is derived from published information about mineral oils. No warranty, expressed or implied, is intended. The data is provided for your information and consideration when using mineral oils as a certified reference material for the calibration of density meters. H&D Fitzgerald assumes no legal responsibility for its use.