



Material Safety Data Sheet

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Issued:	19 02 2001
Revised:	14 06 2008
Rev. No.:	5
Product:	Low Sulphur Oil

COMPANY DETAILS:

FFS Refiners (Pty) Ltd. 104 Umhlatuzana Road Sea View, Durban 4094 SOUTH AFRICA	Ph: 031 459 5300 Fax: 031 459 5326 Email: ffs@ffs.co.za
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1) PRODUCT DETAILS:

Product name:	LSO (Low Sulphur Oil)
Chemical nature:	Liquid Hydrocarbons in C10 - C20 range.
Synonyms:	Waxy Oil 20, S20 Waxy, S20, Synthol
UN/SIN:	1268

2) COMPOSITION

Liquid Hydrocarbons (C10- C20)

Dangerous Substances	% (m/m)	Risk Phrase
Aromatics	<40	Probable carcinogen, harmful

3) HAZARDS IDENTIFICATION

Inflammable liquid; partially volatile at temperatures in excess of 150°C; heating in closed tank can cause pressure rise with risk of bursting or explosion; toxic if ingested in large quantities; moderate skin irritant; inhalation of fumes may cause headaches, dizziness and nausea.

4) FIRST AID MEASURES

	Symptom and Effect	First Aid
Skin	Prolonged and repeated contact with skin may cause severe irritation; Toxic if absorbed through the skin; potentially carcinogenic	Wash off with copious quantities of water then with soap and warm water until no odour remains
Eyes	Contact with eyes may cause redness, tearing, blurred vision and moderate irritation.	Flush eyes with clean water for 15 minutes. Seek medical advice if irritation persists.
Ingestion	Harmful or fatal if swallowed. Ingestion of this product may cause central nervous system effects.	If victim is alert, give large amounts of water to drink and seek medical advice. Small amounts can be washed from mouth until no taste remains.
Inhalation	Excessive exposure may cause respiratory tract irritation. Repeated prolonged exposure to high concentrations may lead to central nervous system effects, headaches, dizziness and loss of co-ordination.	Immediately remove to fresh air. Give oxygen if required. Seek medical advice in required.

5) FIRE FIGHTING MEASURES

SMALL FIRES: Use CO₂, foam or dry chemical.
LARGE FIRES: Use CO₂, fluoro protein foam or dry chemicals to extinguish the fire. Use water to cool fire-exposed containers/ structures and to protect personnel. Combustion may release toxic chemicals; utilise respirators; avoid low lying areas.



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6) ACCIDENTAL RELEASE MEASURES	
Full protective clothing, protective gloves (PVC, Neoprene, Nitrile, or Viton), gumboots and respirator to be worn. Shut off leaks. Remove all sources of heat or flame. Control spill by use of booms, sand, sawdust or any other suitable available medium. Recover as much free product as possible using pumps or mechanical means. Absorb residue with sawdust, sand or other absorbent material. Avoid the product entering storm water drains or waterways.	
7) HANDLING AND STORAGE	
Handling: When handling the product, safety goggles, face mask, protective gloves and overalls should be worn. Observe good personal hygiene practices. Application of protective hand creams may be beneficial.	
Handling Temperature: Avoid extreme temperatures	
Storage: Store away from strong oxidisers. Incompatible with sulphuric acid, nitric acid, caustics, aliphatic amines and amides.	
Storage Conditions: Storage installations should comply with SANS Code 10131:2004 and SANS Code 10089:2003. Installations should comprise bulk storage tanks within bund walls. Product should be stored in a well ventilated area. Sparks, flames and other sources of ignition near the product should be avoided. Do not eat, drink or smoke in storage area.	
8) EXPOSURE CONTROLS/ PERSONAL PROTECTION	
Occupational Exposure Limits:	OHSA 16mg/m ³ TWA OEL-CL
Controls:	Store in accordance with SANS Code 10131:2004 or SANS Code 10089:2003
Personal Protection:	Ensure adequate tank ventilation If engineering controls and work practices are not effective in controlling this material, then wear suitable personal protection equipment including overalls, impervious gloves, respirators, safety goggles, safety boots or gumboots.
9) PHYSICAL AND CHEMICAL PROPERTIES	
Black liquid with paraffin odour. Immiscible with water. Specific Gravity: 0.88 to 0.94 Flashpoint: >70°C Boiling Point: >200°C Viscosity (cSt): 18@100°C	
10) STABILITY AND REACTIVITY	
Partially volatile at temperatures in excess of 150°C; can be ignited at temperatures in excess of 100°C or if atomised with copious air supply.	
11) TOXICOLOGICAL INFORMATION	
Some components of the product are suspected carcinogens. Potentially harmful effects to liver, kidneys, heart, lungs and nervous system may result from chronic over exposure. Some of the components of the product have been associated with immunological, reproductive, fetotoxic and genotoxic effects.	



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12) ECOLOGICAL INFORMATION

No ecological problems are expected if the product is handled and used with due care. When released to the environment, some evaporation and bio-degradation will occur. Some components of the product are soluble in water and may contaminate groundwater reserves. Some components of the product will persist in soil. Material is moderately toxic to aquatic organisms.

13) DISPOSAL CONSIDERATIONS

Do not flush to drain/ storm sewer. Product must be disposed of in an approved hazardous waste disposal site or in an approved incinerator.

14) TRANSPORT INFORMATION

UN/SIN	1268
ICS:	Class 3: Group III
IMDG Code:	Class 3
Marine Pollutant:	Yes

15) REGULATORY INFORMATION

National Legislation	National Road Traffic Act 93 of 1996 Hazardous Substances Act 15 of 1973 Occupational Health and Safety Act 85 of 1993 Hazardous Chemical Substances Regulation GNR 1179
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16) OTHER INFORMATION

For more information please contact FFS Refiners' Customer Services Department on (031) 459 5300

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