



Material Safety Data Sheet

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Issued:	30 10 2009
Revised:	-
Rev. No.:	1
Product:	FO6

COMPANY DETAILS:

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1) PRODUCT DETAILS:

Product name: Fuel Oil 6 / Fuel Oil 6C
Chemical nature: Liquid Hydrocarbons (C12 – C32)
Synonyms: FO6, FO6C, LFO3, LFO6, LFO6C
UN no./SIN 1268

2) COMPOSITION

Complex blend of liquid hydrocarbons originating from petroleum and “coal to liquid” processes, consisting of iso- and normal paraffins, alkanes, olefins, naphthalenes and aromatics of the C12 to C32 carbon range. Up to 3.5% sulphur content.

Dangerous Substances	% (m/m) Typical, Depending on Blend Formulation	Risk Phrase
Aromatics	>50%	Carcinogen

3) HAZARDS IDENTIFICATION

Flammable, gives off irritant fumes in a fire. Minimise exposure and keep upwind.

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 immediately with soap and water until no odour remains.
Eyes	Contact with eyes may cause redness, tearing, blurred vision and moderate irritation.	Flush eyes immediately 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 or pulmonary aspiration effects.	If victim is alert, give large amounts of water to drink and seek medical advice immediately. Small amounts can be washed from mouth until no taste remains.
Inhalation	Excessive exposure may cause respiratory tract irritation and failure. Repeated prolonged exposure to high concentrations may lead to central nervous system effects, headaches, dizziness, loss of co-ordination and even death in extreme cases.	Immediately remove to fresh air. Give oxygen if required. Seek medical advice immediately.

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. Heated vapours / decomposition products may be released to form explosive / flammable mixtures in air. Toxic vapours may be released during a fire. Black smoke is formed. Utilise self-contained breathing apparatus and avoid low-lying areas.



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6) ACCIDENTAL RELEASE MEASURES

Use proper personal protective equipment as indicated in Section 8. Avoid run-off into sewers and waterways. Absorb spills using an absorbent, non-combustible material. Provide ventilation. Dispose of contaminated absorbent to appropriate hazardous landfill.

7) HANDLING AND STORAGE

Handling: Full protective clothing as per Section 8 should be worn when handling the product. A high standard of personal hygiene is essential. Application of protective hand creams and gloves is recommended.

Handling temperature: Avoid extreme temperatures

Storage: Do not store near combustible materials. Do not store in direct sunlight. Keep container closed when not in use. Store in a cool, dry, well ventilated area. Store away from alkalis, acids and oxidisers. Inspect periodically for damage or evidence of leaks or corrosion.

8) EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational Exposure Limits: 0,2 mg/m³ PEL

Controls: Enclose operations and/or provide local exhaust ventilation at site of release. Pump product directly from storage containers to process containers.

Personal Protection: Chemical goggles, PVC or neoprene gloves and half-mask respirator with organic vapour cartridges and appropriate clothing to prevent skin exposure.

9) PHYSICAL AND CHEMICAL PROPERTIES

Coal-derived light oil with characteristic odour. Low solubility in water. Brown in colour.

Physical State: Liquid

Density @ 40°C, kg/l: 0.99. Typical 0,95 - 0,99

Flashpoint @ 101, 325 kPa: >50°C

Initial Boiling Point: >185 °C

Viscosity (cSt): 6 – 15 @ 50°C

10) STABILITY AND REACTIVITY

Partially volatile at temperatures in excess of 60°C. Keep away from strong acids and strong oxidising conditions. Incompatible with strong acids, alkalis, and oxidisers. Oxides of carbon are the decomposition products.

11) TOXICOLOGICAL INFORMATION

Some components of the product are suspected carcinogens. Potentially harmful effects to liver, kidneys, heart, lungs and central 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 biodegradation will occur. Some components of the products 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 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 National Environmental Management Waste Act 59 of 2008.
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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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