



MATERIAL SAFETY DATA SHEET

Heavy Fuel Oil

HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA.

COMPANY DETAILS

Company Name	Southern Oil Refineries
Address	42 Lewington St Bomen, NSW, Australia 2650
Emergency Tel.	(02) 69 319 022
Product and MSDS Info:	(02) 69 319 022

IDENTIFICATION

Product Name	Heavy Fuel Oil
Chemical Name	PETROLEUM HYDROCARBONS

Physical Data

Appearance	Liquid
Colour	Black / Dark Amber
Odour	Mild to strong acrid smell
Odour threshold-ppm	NE
Boiling point	> 316°C
Melting point	NA
Flash point (PMCC)	100°C typical (ASTM D-93)
Flammability	NE
Auto Flammability	NE
Solubility in Water	Negligible

Other Properties

pH	NA
Explosive Properties	NA
Oxidizing Properties	NA
Vapour Pressure	< 0.1 (mmHg @ 20°C)
Vapour Density	> 2.0
Evaporation Rate	NE
Relative Density	0.94 (@15°C)
Partition Coefficient	> 3.5
Viscosity	40 - 70 cSt (@ 40°C)
Pour Point	< -3°C
Freezing Point	NE

NA=NOT APPLICABLE NE=NOT ESTABLISHED

Ingredients

Ingredients	Name	Proportion	CAS
	Heavy Fuel Oil	100 %	64742-65-0
Information on Composition	Chemical Family: Petroleum Hydrocarbon This material has not been solvent treated and as a result may contain Poly-Cyclic Aromatic Hydrocarbons (PCAH).		

Ingredients Considered Hazardous to Health This product may contain low levels of Poly-Cyclic Aromatic Hydrocarbons (PCAH) some of which are known to be carcinogenic.

HEALTH HAZARD INFORMATION

Health Effects

Acute – Swallowed	If more than several mouthfuls are swallowed, abdominal discomfort, nausea and diarrhea may occur.
Acute – Eye	Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.
Acute – Skin	Avoid prolonged and repeated skin contact with used lubricating oils as this may lead to dermatitis. This material contains small quantities of PCAHs, some of which have been shown by animal experimental studies to induce skin cancer.
Acute – Inhalation	Harmful concentrations of mists and/or vapors are unlikely to be encountered through any customary or reasonably foreseeable handling, use, or misuse of this product.
Chronic	Frequent and prolonged contact with all types of oil must be avoided and a high standard of personal hygiene maintained.

First Aid

Swallowed	No specific first aid measures are required because this material is not expected to be harmful if swallowed. Do not induce vomiting. As a precaution, give the person a glass of water or milk to drink and get medical advice. Never give anything by mouth to an unconscious person.
Eye	Flush eyes immediately with fresh water for several minutes while holding the eyelids open.
Skin	Wash skin thoroughly with soap and water.
Inhaled	If respiratory irritation or any signs or symptoms as described in this MSDS occur, move the person to fresh air. If any of these effects continue, see a doctor.
Advice to Doctor	N/A

PRECAUTIONS FOR USE

Exposure Limits	This product does not contain any components which have recognized exposure limits. However, an exposure limit of 5.00 mg/m ³ for an 8 hr time weighted average (TWA) is suggested for oil mist. An exposure limit of below 0.02 mg/m ³ for an 8 hr TWA is suggested for PCAHs.
Eng. Controls	Use in well ventilated area or with local exhaust ventilation. Vapour heavier than air – prevent concentration in hollows or sumps. Do not enter confined spaces where vapour may have collected.

Personal Protection

Eye Protection	Safety glasses
Clothing	Overalls, safety shoes and gloves.
Work/Hygienic Practices	Avoid skin and eye contact and inhalation of vapours. Wear overalls, safety glasses and impervious gloves. Use with adequate ventilation. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Flammability

Fire Hazards	See Safe Handling Information.
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SAFE HANDLING INFORMATION

Storage and Transport

Transport	Not classified as dangerous by the criteria of the Australian Dangerous Goods Code (ADG) for transport by road or rail. UN Number: N/A Dangerous Good Class: N/A Proper Shipping Name: N/A Hazchem Code (Aus/NZ): N/A
Storage Regulations	Store in a well ventilated area. Store away from halogens, strong acids, alkalis, oxidizing agents and foodstuffs.

Spills and Disposal

Spills & Disposal	Wear protective equipment to prevent skin and eye exposure and inhalation of vapours/mists. Work upwind or increase ventilation. Contain any spillage using absorbent soil, sand or any other inert material and prevent runoff to drains and waterways. Collect, seal and label drums for disposal. Wash down with detergent and excess water.
Disposal	Refer to State Land Waste Management Authority. Normally suitable for incineration by approved agent.

Fire/Explosion Hazard

Fire/Explosion Hazard	Combustible liquid. May form flammable vapour mixes with air. Electrical requirements for work areas should be assessed according to AS 3000. On burning, will emit toxic fumes, including carbon monoxide (CO). Firefighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion.
Extinguishing Media	Foam, dry agent (CO ₂ or dry chemical powder).

OTHER INFORMATION

Toxicology This product contains petroleum base oils which have been refined. These oils may contain small quantities of PolyCyclic Aromatic Hydrocarbons, some of which are known to be carcinogenic.

Environmental Protection Avoid contaminating waterways.
Harmful to aquatic organisms.
May cause long-term adverse effects in the aquatic environment.

CONTACT POINT

Contact Southern Oil Refineries
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Fax: (02) 69 319 005

This form has been prepared in accordance with WORKSAFE AUSTRALIA NATIONAL CODE OF PRACTICE FOR THE PREPARATION OF MATERIAL SAFETY DATA SHEETS [NOHSC:2011 (1994)] issued by the NATIONAL OCCUPATION HEALTH AND SAFETY COMMISSION MARCH 1994.

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