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	Document Type:
	Safety Data Sheet Conforms to ISO 11014-1
	Title:
	BME Furnace Oil®

1. Identification of the product and Company Identification

Product Name	BME Furnace Oil®	Manufactured/ supplied by
Product use	Bulk base emulsion	BME
Synonyms	Hydrocarbon liquid, Heavy Fuel Oil (HFO) Furnace Oil, Residual Fuel Oil, Burner Fuel Oil	A division of Omnia Group (Pty) Ltd
Chemical Formula	Not applicable	<i>Physical address</i>
Emergency telephone number	(+27) 11 706 3398	Omnia Holdings, Building H Monte Circle Business Park 178 Montecasino Boulevard Fourways Sandton, 2191
QR code		<i>Postal address</i> P.O. Box 70040 Bryanston, 2021 Gauteng, South Africa <i>Contact</i> Tel: +27 11 7098888 E-mail: info@bme.co.za

2. Hazards identification

GHS Classification:	 Acute Tox. 3: H301 Toxic if swallowed  Muta. 1B: H340 May cause generic defects Carc. 1B: H350 May cause cancer  Skin Irrit. 2: H315 Causes skin irritation Eye Irritation 2A: H319 Causes serious eye irritation Flam. Liq. 4: H227 Combustible liquid Aquatic Acute 3: H402 Harmful to aquatic life Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. <i>GHS precautionary Statements:</i> IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Specific treatment. Rinse mouth. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take off contaminated clothing and wash it before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.
Effects and symptoms:	May cause irritation to sensitive skin. Harmful if swallowed. May cause irritation in case of eye contact.
Aggravating conditions:	Not applicable

See toxicological information (section 11)

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3. Composition/information on ingredients

Substance/preparation:

Chemical name	CAS No	%	EC Number	GHS Classification
Re-processed Petroleum/Paraffin Base Oils	8012-95-1 70514-12-1	80-100	232-384-2 274-635-9	 Ox. Liq. 2 H272  Acute Tox. 3, H301  Skin Irrit. 2, H315 Eye Irritation 2A, H319
Water/Solids	7732-18-5	0-20	231-791-2	
Diesel	68334-30-5	0-5	269-822-7	 Carc. 2, H351 Asp. Tox. 1, H304  Aquatic Chronic 2, H411 Flam. Liq. 4, H227 Acute Tox. 5, H303
Gasoline	8006-61-9	0-1	232-349-1	 Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304
Polycyclic aromatic hydrocarbons	83-32-9	0-1	120-12-7	
Chlorinated Paraffin	85535-85-9	<0.5	287-477-0	 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Ethylene Glycol	107-21-1	Trace amounts	203-473-3	 Acute Tox. 4, H302 Acute Tox. 5, H313

4. First aid measures

Inhalation	: If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention.
Ingestion	: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention.
Skin contact	: In case of skin contact. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse.
Eye contact	: Check for and remove any contact lenses. In case of contact immediately flush eyes with plenty of water for at least 20 minutes. Cold water may be used. Get medical attention.
Note to physician	: No specific treatment, treat symptomatically.
Protection of first-aiders	: No additional remarks.

5. Fire-fighting measures

Extinguishing media Suitable	: Do not attempt to fight Furnace Oil fire.
Not suitable	: No additional remarks.
Unusual fire/explosion hazards	: If a transport vehicle or surrounding combustible material burns, extinguish.
Special firefighting procedures	: IF FIRE IS OUT OF CONTROL, DO NOT FIGHT FIRE. Withdraw from the fire and let it burn itself out. Promptly isolate the scene by removing all persons from the incident if there is a fire. First move people out of line-of-sight of the scene and away from windows.
Protection of fire fighters	: Wear overalls, gloves, boots, and eye protection as well as self-contained breathing apparatus.

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6. Accidental release measures

Personal precautions	:	Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Overalls buttoned to the neck and wrist. Rubber boots. Gloves. Eye protection.
Environmental precautions	:	Block source of spill and contain spill. Absorb with DRY earth or sand. Prevent entry into sewers, basements or confined areas, dyke if needed. If spill occurs on roadside, mix with dry earth. Use appropriate tools to collect into drums or suitable containers. Dispose waste using a professional registered waste disposal company.

Note: See section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

Handling	:	Keep away from sources of ignition. Keep away from incompatibles, such as combustible material, organic materials, alkalis and acids.
Storage	:	Store in steel or chemical grade plastic tanks or containers. DO NOT store adjacent to any potentially extreme source of heat or accumulation of combustible material. No open flames or smoking allowed in the vicinity.
Packaging materials	:	Store in steel or chemical grade tanks.
Recommended use:	:	Store in separate containers/tanks.
Not suitable	:	No additional remarks

8. Exposure controls/personal protection

Engineering measures	:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.
Hygiene measures	:	Wash hands after handling compounds and before eating, smoking, using ablution facilities and at the end of the day.

Occupational exposure limits:

Ingredient name		Occupational exposure limits	
Reprocessed Petroleum/ Paraffin Base Oils Various		5 mg/m³	
Water		-	
Diesel		100 mg/ m³ (as total hydrocarbons)	
Gasoline		300 ppm (as gasoline or motor fuel oil)	
Polycyclic Aromatic Hydrocarbons		52 mg/m³	
Chlorinated Paraffin			
Ethylene Glycol			
Recommended monitoring procedures		:	No additional information.
Personal protective equipment			
Respiratory system		:	A respirator is not required under normal and intended conditions of product use.
Skin and body		:	Overalls buttoned to the neck and wrist.
Hands		:	PVC gloves or similar suitable.
Eyes		:	Eye protection.

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9. Physical and chemical properties

Physical state	: A low viscosity, black liquid hydrocarbon liquid, residual fuel oil manufactured from recovered lubricating oil free from visible impurities and sediment/sludge. Re-processed to remove light fractions, water ash and other particulate matter
Colour	: Black
Odour	: Fuel like
Flammability	: Flammable
Density@ 20°C	: 0.86 – 0.900 g/ml
Solubility - Water	: Insoluble
Solubility – Solvent	: Soluble in most hydrocarbons
Fire hazards in presence of various substances	: Contact with combustible or organic material may cause fire.
Explosive properties	: Non-explosive (Risk of explosion if heated under confinement).
Viscosity@25°C	: 175-300 cP
Viscosity@40°C	: 70–90 cP
Viscosity@75°C	: 10-50 cP
Flash point PMCC	: 65-105°C
Sulphur Content	: 0.7 - 0.9 % mm
Ash Content	: 0.4 - 0.8 % mm
Water Content	: 0.1- 0.3 % mm

10. Stability and reactivity

Stability	: Product is stable
Conditions to avoid	: Avoid oxidising agents, combustible material, organic material, acids, alkali's, reducing agents and metals.
Hazardous decomposition product	: Nitrous oxides and CO may be generated during combustion. Under normal storage conditions no hazardous decomposition of product occurs.
Hazardous polymerisation	: Will not occur.

11. Toxicological information

Eyes	: Hazardous in case of eye contact (irritant)
Skin	: Hazardous in case of skin contact (irritant). Skin inflammation is characterised by itching, scaling, reddening or occasionally blistering
Ingestion	: May cause burns to mouth, throat and stomach

12. Ecological information

Aquatic toxicity:	
Fish	: Extreme toxicity in high concentrations of nitrates affect fish and reduces oxygen in water.
Daphnia	: As above.

13. Disposal considerations

Methods of disposal	: Waste must be disposed of in accordance with federal, state and local environmental control regulations.
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14. Transport information

Regulatory information	UN Number	Name and description	Class	UN Packaging Group	Additional information
ADR/RID Class	1268	Reprocessed lubricating oil (Liquid) N. O	93	III	Limited quantity
ADN Class	1268	Reprocessed lubricating oil (Liquid) N. O	93	III	CEFIC Tremcard
IMDG Class	1268	Reprocessed lubricating oil (Liquid) N. O	93	III	Emergency schedules
IATA-DGR Class	1268	Reprocessed lubricating oil (Liquid) N. O	93	III	AIR: Forbidden RAIL: Applicable Hazchem and specific requirements of the relevant transport authority. Both Rail and Road must comply with: Hazardous Substance Act No 15 of 1973 and the OHSAct specifically the Regulations for Hazardous Chemical Substances SEA: As per UN recommendation and the IMDG Code.

15. Regulatory Information

EU Regulation Hazard symbols Indicator of Danger:		
Risk phrases	:	R5 – Heating may cause explosion R8 - Contact with combustible material may cause fire R10 - Flammable R 22 – Harmful if swallowed R36 – Irritating to eyes R38 - Irritating to skin R44 – Risk of explosion if heated under confinement
Safety phrases	:	S15 – Keep away from heat S17 – Keep away from combustibles S24/25 – Avoid contact with skin and eyes
Product use	:	-

16. Other information

Full text of R-Phrases with No:	R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition R5 Heating may cause an explosion R8 Contact with combustible material may cause fire R9 Explosive when mixed with combustible material R10 Flammable R61 May cause harm to the unborn child R62 Possible risk of impaired fertility R20/22 Harmful by inhalation and if swallowed R22 Harmful if swallowed R36/38 Irritating to eyes and skin R33 Danger of cumulative effects R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
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Date of issue	:	12-08-2026
Date of previous issue	:	12-08-2024
Recommended by	:	Kady Govender: R&D Laboratory Supervisor
Authorized by	:	Myra Coetzer: Acting R&D Laboratory Manager

Remarks:

This SDS summarises, at the date of issue, our best knowledge of health and safety hazard information of the product, and in particular how to safely handle the product in the workplace. As **BME** cannot control the use and handling of the product, each user must review the SDS in the context of how the user intends to handle and use the product in the workplace.

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