



Material Safety Data Sheet

Page:	1 of 3
Issued:	28 03- 003
Revised:	14 06 2008
Rev. No.:	5
Product:	LPGO

COMPANY DETAILS:

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1) PRODUCT DETAILS:

Product name:	Light Pitch Gas Oil (LPGO)
Chemical nature:	Mixture of Hydrocarbons, Phenolic type compounds and cresols.
Synonyms:	Coal Tar Naphtha, Phenolic Tar Distillate.
UN No./SIN:	1268

2) COMPOSITION

Complex varying blend of hydrocarbons and oxygenates, including mono- and di-aromatics, phenols and cresylic acids.

Dangerous Substance	% (m/m)	Risk Phrase
Cresols	10-35	Probable carcinogen, harmful, flammable
Naphthalene	0-5	
Phenolics	20-50	
Aromatics	0-10	
Unknown	5-10	

3) HAZARDS IDENTIFICATION

Flammable liquid (flashpoint approx 70 °C-80°C); may be fatal if inhaled in excessive quantities; harmful if swallowed or if absorbed through skin; contains probable carcinogen compounds.

4) FIRST AID MEASURES

	Symptom and Effect	First Aid
Skin	Contact with skin may cause severe irritation; skin anaesthetic; white wrinkled discolouration of skin; toxic if absorbed through the skin in excessive quantities; potentially carcinogenic	Wash with soap and water until no odour remains and then with alcohol, Mono Ethylene Glycol or olive oil. If covered in product, stand in shower for at least 25 minutes or until no odour remains on skin.
Eyes	Contact with eyes may cause severe irritation, burns, redness, tearing, blurred vision, may cause corneal damage and in severe cases blindness.	Flush eyes with clean water for 15 minutes. Seek medical advice immediately.
Ingestion	Harmful or fatal if swallowed. Ingestion of this product may cause burning pain from mouth to stomach, blotches first white then brown on lips, central nervous system effects.	If victim is alert, give large amounts of water, milk or olive oil to drink and seek medical advice immediately. Small amounts can be washed from mouth until no taste remains.
Inhalation	Excessive exposure may cause irritation of the respiratory system. Poisoning may occur by inhalation causing headaches, nausea, dizziness, shock and convulsions.	Immediately remove to fresh air. Give oxygen if required. Combat shock. Seek medical advice immediately.



Material Safety Data Sheet

Page:	2 of 3
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5) FIRE FIGHTING MEASURES	
SMALL FIRES: Use CO ₂ , foam or dry chemical.	
LARGE FIRES: Use CO ₂ , 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.	
6) ACCIDENTAL RELEASE MEASURES	
Full protective clothing, rubber 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, absorbent or any other suitable available medium. Recover as much free product as possible using pumps or mechanical means. Absorb residue with sand or other absorbent material. Avoid the product entering storm water drains or waterways.	
7) HANDLING AND STORAGE	
Handling: Full protective clothing should be worn when handling the product. A high standard of personal hygiene is essential. 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 conditions should comply with the relevant code of practice (SANS Code 10131:2004 and SANS Code 10089:2003). 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 or working area/s.	
8) EXPOSURE CONTROLS/ PERSONAL PROTECTION	
Occupational Exposure Limits:	OHSA 16 mg/m ³ TWA OEL-CL
Controls:	Store in accordance with either SANS Code 10131:2004 or SANS Code 10089:2003 depending on installation.
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 appropriate overalls, impervious gloves, respirators, safety goggles or face shield, safety boots or gumboots. Should clothing be contaminated with product, remove immediately.
9) PHYSICAL AND CHEMICAL PROPERTIES	
Black liquid with typical tar odour. Medium solubility in water. Density @ 20°C, kg/l: 0.85 Flashpoint @ 80°C Boiling Point: 180°C Viscosity (cSt): 4 @ 50°C	



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Page:	3 of 3
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10) STABILITY AND REACTIVITY

Partially volatile at temperatures in excess of 70 °C-80°C; avoid strong oxidisers. Incompatible with sulphuric acid, nitric acid, caustics, aliphatic amines and amides.

11) TOXICOLOGICAL INFORMATION

Some components of the product are suspected carcinogens. Potential 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.

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 an approved incinerator.

14) TRANSPORT INFORMATION

UN No./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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