



MATERIAL SAFETY DATA SHEET

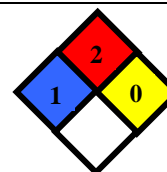


LIGHT DIESEL OIL

Section 1 – Chemical Product and Company Identification

Chemical Name : Light Diesel Oil
Chemical Formula : Complex mixture of hydrocarbons
CAS Number : 68476-30-2
Synonyms : LDO
General Use : Fuel

Manufacture's Name : Bharat Petroleum Corporation Limited
Address : Refinery, Mahul, Chembur, Mumbai 400074
Telephone Number for Info : 25533888 / 25533999 / 25524888 / 25524999
MSDS No. :
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Revision # : 2



NFPA 704 (Sec 16)

Section 2 – Composition / Information on Ingredients

Composition : Complex mixture of hydrocarbons
Hazardous Components :
ACIGH TLV TWA : Not listed

Section 3 – Hazards Identification

Primary Entry Routes : Ingestion, inhalation, skin and eyes
Acute Effects : Inhalation can cause dizziness, headache and nausea, depresses central nervous system and has an anesthetic effect. Breathing of liquid droplets may lead to chemical pneumonia. Ingestion can lead to nausea, diarrhea and affect central nervous system. Skin irritant. Prolonged contact can result in skin drying and dermatitis. Eye irritant.
Carcinogenicity : Not listed as carcinogenic
Chronic Effects : No data available

Section 4 – First Aid Measures

Eyes : Flush with water for 15 min. Get medical attention.
Skin : Wash with warm water & soap.
Inhalation : Remove to fresh air. Consult a physician if irritation persists.
Ingestion : Do not induce vomiting. Do not give liquids. Get medical help at once.

Section 5 – Fire Fighting Measures

Flash Point : > 66°C
Flash Point Method : Pensky Marten

Auto ignition Temperature :	230 °C to 250 °C (highly variable)
LEL :	0.5 %
UEL :	5.0 %
Flammability Classification :	Flammable
Extinguishing Media :	Foam, Dry Chemical Powder, CO2
Unusual Fire or Explosion :	Heat produces vapours and can cause violent rupture of containers.
Hazards :	Carbon di oxide, carbon mono oxide, benzene
Hazardous Combustion	
Products :	
Fire-Fighting Instructions :	Small fires can be extinguished by hand held extinguishers. Major fires may require withdrawal and allowing the tank to burn. Fire fighters should wear self breathing apparatus while fighting fire

Section 6 – Accidental Release Measures

Small Spills :	Shut off leaks without risk. Absorb on sand or earth.
Containment :	Prevent spillage from entering drains or water sources
Cleanup :	After spills wash area with soap and water preventing runoff from entering drains.

Section 7 – Handling and Storage

Handling Precautions :	Do not use/store near heat/open flame. Use gumboots, gloves while handling the product. Do not inhale. Stay upwind while handling the product. Product should never be used to remove oil or grease from skin. It should not be siphoned by mouth. It should be stored in closed containers away from heat & source of ignition. Avoid contact with skin and eyes. Wash thoroughly after handling
Storage Requirements :	Do not use/store near heat/open flame/water/acids

Section 8 – Exposure Controls / Personal Protection

Engineering Controls :	Provide proper ventilation for environment to be below TWA
Respiratory Protection :	Use respiratory protection if ventilation is improper
Protective Clothing / Equipment :	Use face shield, PVC gloves, safety boots while handling. Contaminated clothing to be immediately removed

Section 9 – Protection Physical and Chemical Properties

Physical State :	Liquid
Appearance and Odour :	Dark brownish liquid. Characteristic hydrocarbon like odour
Vapor Pressure :	0.5 mm of Hg at 38 °C (RVP)
Specific Gravity :	0.84 to 0.895 gm / cc
Water Solubility :	Insoluble
Boiling Point :	207-535 Deg C
Pour Point :	< 21 °C
Vapour Density :	3 to 5 (Air = 1)
Sulphur content :	< 1.8 % w

Section 10 – Stability and Reactivity

Stability :	Chemically stable.
Chemical Incompatibilities :	Incompatible with oxidizing agents & chlorine. Reacts vigorously with oxidizing materials.
Conditions to Avoid :	
Hazardous Decomposition Products :	Carbon di oxide, carbon mono oxide

Section 11 – Toxicological Information

ACIGH TLV TWA :	Data not available
Toxicity Data :	Data not available
Acute Inhalation Effects :	

Section 12 – Ecological Information

Prevent spillage from entering drains or water sources. After spills wash area with soap and water preventing runoff from entering drains. Can burn with lot of heat producing CO₂ and CO.

Section 13 – Disposal Considerations

Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations

Section 14 – Transport Information

Shipping Name :	Light Diesel Oil
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Section 15 – Regulatory Information

Non - Toxic/Flammable Substance

Section 16 – Other Information

Prepared by: Process Safety Section, BPCL- Mumbai Refinery
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