



HINDUSTAN PETROLEUM CORPORATION LIMITED

VISAKHA REFINERY

MATERIAL SAFETY DATA SHEET

MSDS of Light Distillate Oil

Section 1: Chemical Product and Company Identification

1.1 Chemical Product Identifiers:

1.1.1 Chemical Name	Light Distillate Oil
1.1.1.1 Trade Name	LDO
1.1.2 CAS No.	68476-30-2

1.2 Relevant identified uses of the chemical product and uses advised against:

Relevant identified uses	Not Available
Uses advised against	Not Available

1.3 Details of the supplier of the safety data sheet:

1.3.1 Company Name	Hindustan Petroleum Corporation Limited
1.3.2 Address	Malkapuram, Visakhapatnam- 530011
1.3.3 Contact No.	Fire & Safety Shift Supervisor
1.3.4 Contact person in emergency	(0891)2894843, (0891) 2894848, 2894849
1.4 Emergency Telephone No.:	(0891) 2894444, 2894445

Section 2: Composition/Information on Ingredients

2.1 Name of Product: LDO

2.1.1 Systematic Chemical Name or Trivial Name: Light Distillate Oil

2.1.2 CAS No.: 68476-30-2

Section 3: Hazards Identification

3.1 Classification of the chemical product: Not Classified

3.2 Label Elements: Not Classified

3.3 Other hazards except those mentioned in DGCPL Rules, 201: Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Section 4: First-Aid Measures

4.1 Description of first aid measures





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4.1.1 Inhalation

Move to fresh air in case of accidental inhalation of vapours. In case of shortness of breath, give oxygen. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

4.1.2 Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a physician.

4.1.3 Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.

4.1.4 Ingestion

If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and anticipated effects both acute and delayed

Carcinogenic effects

4.3 Advice for immediate medical attention and special treatment needed

None

Section 5: Firefighting Measures

5.1 Extinguishing Media



Suitable extinguishing media

Water spray, Dry powder, Foam

5.2 Special hazards arising from the chemical product:

Flash back possible over considerable distance. Do not allow run-off from firefighting to enter drains or water courses.

5.3 Hazardous Combustion Products: Not available

5.4 Specific Extinguishing Methods

For this substance/mixture no limitations of extinguishing agents are given

5.4.1 Advice for Fire-Fighters

Standard procedure for chemical fires. In the event of fire, cool tanks with water spray.

5.4.2 Special protective equipment for fire-fighters: Wear self-contained breathing apparatus and protective suit.

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:



Use personal protective equipment. Do not breathe vapours or spray mist. Ensure adequate ventilation.



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6.2 Environmental precautions:

Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up:

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). The material taken up must be disposed of in accordance with regulations.

6.4 Reference to other sections:

Hazardous combustion products: see section 5. Personal protective equipment: see section

8. Incompatible materials: see section 10. Disposal considerations: see section 13.

Section 7: Handling and Storage

7.1 Precautions for Safe Handling:

Wear personal protective equipment. Avoid contact with skin and eyes.



Measures to prevent fire as well as aerosol and dust generation

Keep away from sources of ignition - No smoking. Provide sufficient air exchange and/or exhaust in work rooms.

7.2 Conditions for Safe Storage, including requirement of hazardous area classification and any incompatibilities:

Keep containers tightly closed in a cool, well-ventilated place.

Section 8: Exposure Controls and Personal Protection

8.1 Control Parameters:

Contains no substances with occupational exposure limit values

8.2 Exposure Controls

8.2.1 Personal Protective Equipment:

Use of PPE to be ensured by working crew for exposure control. Different PPEs for exposure control of different body parts is described in the next section.

8.2.2 Suggestions for protection of eye, skin and body and respiratory system:

- Eye/face protection



Use safety goggle with side protection.

- Skin protection



- a. Hand protection



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Wear suitable gloves.

b. Type of material

Butyl-rubber

c. Material thickness

0.5 mm

d. Breakthrough times of the glove material

4 h

e. Other protection measures

Wash hands before breaks and immediately after handling the product.

8.2.3 Environmental Exposure Controls: Not Available

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	light brown
Odour	Not available
Melting point/freezing point	Not available
Boiling point or initial boiling point and boiling range	Not available
Flammability	Not available
Lower and upper explosion limit	Not available
Flash point	66 °C
Pour point	12 °C(Winter) 21 °C(Summer)
Auto-ignition temperature Decomposition temperature	Not available not relevant
pH (value) Kinematic viscosity	not determined 2.5-15 cst @ 40°C
Solubility(ies) Water solubility	Insoluble
Partition coefficient Partition coefficient n-octanol/water (log value):	Not available
Soil organic carbon/water (log KOC)	Not available
Vapour pressure	Not available



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Density and/or relative density	
Density	Not available
Relative vapour density	Not available
Particle characteristics	not relevant (liquid)
Other safety parameters	
Oxidising properties	none
9.2 Other Information:	
Information with regard to physical hazard classes:	
There is no additional information.	

Section 10: Stability and Reactivity

10.1 Incompatible materials

Oxidizing agents, Reducing agents, Acids and bases

10.2 Hazardous decomposition products

Hazardous combustion products: see section 5

Section 11: Toxicological Information

11.1 Information on Toxicological Effects:

Symptoms related to the physical, chemical, and toxicological characteristics

11.1.1 Acute Toxicity:

Exposure route	Endpoint	Value	Species	Source
Inhalation	LC50	4.6 mg/l/4h	rat	TOXNET
Oral	LD50	> 5000 mg/kg	rat	TOXNET
Dermal	LD50	>2000 mg/kg	rabbit	ECHA

11.1.2 Skin Corrosion/ Irritation: Moderately irritating.

11.1.3 Serious Eye Damage/ Eye Irritation: Slightly irritating.

11.1.4 Respiratory or Skin Sensitization: Shall not be classified as a respiratory or skin sensitizer.

11.1.5 Mutagenicity: Shall not be classified as germ cell mutagenic.

11.1.6 Carcinogenicity: Shall not be classified as carcinogenic

11.1.7 Reproductive Toxicity: Not Classified.

11.1.8 Specific target organ toxicity-single exposure: Not Classified.

11.1.9 Specific target organ toxicity - repeated exposure: Not Classified.

11.1.10 Aspiration Hazard: Not Classified.

11.1.11 Additional Information: Not Classified.



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Section 12: Ecological Information

12.1 Toxicity: Toxic to aquatic life with long lasting effects

Aquatic toxicity (acute)

Endpoint	Value	Species	Source	Exposure time
LC50	54 mg/l	Fish	ECHA	96 h

12.2 Persistence and Degradability: Not Available

12.3 Bio Accumulative Potential: Not Available

12.4 Mobility in Soil: Not Classified

12.5 Other adverse effects: Data are not available

Section 13: Disposal considerations

13.1 Waste Treatment Method: In accordance with local and national regulations.



13.1.1 Contaminated Packaging: Packaging that cannot be cleaned must be disposed of in the same way as the material itself.

13.1.2 Local Regulations (if any) on Disposal: Waste material must be disposed of in accordance with the Hazardous Waste Management Rules-2016

Section 14: Transport Information

14.1 UN Number: Not Classified

14.2 UN Proper Shipping Name: Not Classified

14.3 Transport Class(es): Not Classified

14.4 Packaging Group: Not Classified

14.5 Environmental Hazards: Not Classified

14.6 Special Precautions for User: Not Classified

Section 15: Regulatory Information

15.1 Safety, health and Environmental: Regulations/legislation specific for the substance or mixture relevant provisions of **Non-Toxic/Flammable Substance are applicable**



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Section 16: Other Information

16.1 Date of Issue: --

16.2 Necessity of Specific Training: Working and handling personnel to be trained on following aspects

- i. Chemical hazard awareness
- ii. Safety control measures including PPE
- iii. Housekeeping, hygiene and chemical storage
- iv. Responding to any kind of emergency

16.3 Disclaimer: This M.S.D.S and the information it contains is offered to you in good faith as accurate. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents.