

DIESEL OIL

MATERIAL SAFETY DATA SHEET

1. IDENTITY OF MATERIAL

Product Name : Diesel Oil (HSD Bharat-IV, HSD Bharat-III, High flash HSD, Export HSD)		Chemical Designation : A Complex Mixture Of Hydrocarbons.	
Trade Name : HSD Bharat-IV, HSD Bharat-III, High flash HSD, Export HSD		Synonyms : HSD, Gas Oil	
Formula : A Complex mixture of Hydrocarbons	Label : Category Class : 3	CAS Number : ----	UN Number : 1202
Regulated Identification : UN Number 1202	Shipping Name Codes / Label: Class B Flammable liquid		Hazchem Code : 3Z

2. PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Liquid	Boiling Point in ° C.: ----	Vapour Pressure at 20 ° C : < 1mm Hg
Appearance(Colour) : Light brown oily liquid	Melting / Freezing Point in ° C : ---	Evaporation rate at 30 ° C: ----
Odour Pungent smell	Vapor Density (Air-1) : 3.0 – 5.0 (Heavier Than Air.)	Solubility in water at 30 ° C: Insoluble
Others (Corrosivity, Etc) : <i>Flammable</i>	Specific Gravity (Water-1) : 0.81 – 0.91 at 20°C (Lighter Than Water)	PH: Neutral

3. FIRE AND EXPLOSION HAZARD'S DATA

Explosion / Flammability : Flammable	Flash Point : 32 °C to 96 °C	Flammability Range: 0.7% to 5%	Autoignition Temperature : 256.6 °C
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4. REACTIVE HAZARDS

	Impact : Stable	Hazardous Combustion Products : Carbon Monoxide(CO), Carbon Di Oxide(CO₂)
Stability to	Static Discharge : No	(Hazardous Decomposition Products) : N/AV

	Reactivity : With Oxidising Material	(Conditions to avoid) : Avoid contact with Oxidising Material
Hazardous Polymerization	May Not Occur	(Conditions to avoid) : No

5. HEALTH HAZARD DATA

Routes of Entry : **(Inhalation, Skin, Mucous Membranes, Eye Contact and Ingestion)**

Effects of Exposure / Symptoms: **Dizziness, vomiting, irritation to eyes & Skin.**

LD 50 (in rat) Orally or percutaneous absorption) (mg / kg body weight) : ---- LC 50 (in rat) (mg/1hour) : ----

Permissible Exposure Limit (PEL) :	ppm	mg /cu. m.	Short Term Exposure Limit(STEL)	ppm	mg /cu. m
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Threshold Limit Value(TLV) of ACGIH :	ppm	mg/cu. m	Odour Threshold	ppm	mg / cu.m
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Emergency Treatment : **Remove Victim To Fresh Air, Give Artificial Respiration, If Required.**

6. HAZARD SPECIFICATION

NFPA HAZARD SIGNAL	HEALTH: 2	FLAMMABILITY: 3	STABILITY: 0	SPECIAL: 0
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Known Hazards

Combustible Liquid : Yes	Water Reactive Material : No	Irritant : Yes
Flammable Material : Yes	Oxidiser : No	Sensitizer : No
Phyrophoric Material : No	Organic Peroxide : No	Carcinogen : No
Explosive Material : No	Corrosive Material : No	Mutagen : No
Unstable Material : No	Compressed Gas: No	Others (Specify): No

7. SAFE USAGE DATA

Ventilation	Mechanical
	Local Exhaust : ----
Personal Protective Equipment Required	Eyes (Specify) : Safety Goggle

	Respiratory (Specify): Self Contained Breathing Apparatus Set.
	Gloves (Specify) : Chemical Resistant.
	Clothing (specify) : Boiler Suit.
	Others (Specify) : ---
Precautions	Handling & Storage Others (Specify) : Store At Cool, Ventilated And Specified Place.

8. EMERGENCY RESPONSE DATA

	Fire Extinguishing Media : Carbon Dioxide (CO₂), Dry Chemical Powder (DCP), Aqueous Film Forming Foam, Water spray to cool container
Fire	Special Procedures: Use Self Contained Breathing Apparatus Set (SCBA Set) For Fire Fighting.
Exposure (Skin and eye contact, inhalation, Ingestion)	First Aid Measures : Remove Victim To Fresh Air, Give Artificial Respiration If Required.
Spills	Steps to be taken: Collect In Container ,& Spray The Absorbing Material Like Clay, Sand.
	Waste disposal method : On Large Scale Absorb And Landfill , Allow For Atmospheric Evaporation.

9. ADDITIONAL INFORMATION (DOS & DON'T)

- In case of leaks monitor %LEL, restrict ignition sources. Stop traffic/vehicular movements.
- Dilute vapor cloud with water spray .
- Look for wind direction.
- Evacuate Personnel /Community on down wind side.
- Approach from upwind direction.
- If caught on downwind, move perpendicular to wind direction and assemble at nearest safe assembly point.
- Cordon off the area.
- Use Self Contained Breathing Apparatus Set in case of Fire.
- Contain leaking liquid on sand or earth.
- Do not Panic.
- Do not enter without knowing the wind direction.
- Do not approach leaking / affected area without proper respiratory protection.
- Do not approach from downwind direction
- Do not run.
- Do not move along or opposite to the direction of wind.
- Do not allow unauthorized personnel.

10. SOURCES USED

Hazardous Chemicals – Richard. J. Lewis.
IDL Safety Information.

11. MANUFACTURER / SUPPLIER DATA

Firm's Name: Mangalore Refinery & Petrochemicals Ltd.	Standard Packing : Transporation In Bulk Tanker OF 12 T,16 T, 18T Capacities, Ship, Pipelines.
Mailing Address: At P.O Kuthethoor, Mangalore- 575030 (D.K.)	Emergency Telephone During Transit :(0824)2270400
Telephone Number:(0824)2270400	
TeleFax. Number :(0824)2270013	
Contact Persons In Case of Emergency:	
Head (Operations) TEL: :(0824)2270400,Ext(O)2440,(R)4440	
Head- Marketing TEL: :(0824)2270400, Ext(O)2107	
Fire & Safety ,Control Room TEL: :(0824) 2270279, 2270400,Ext-2333/3333,2555	