

MATERIAL SAFETY DATA SHEET

1. CHEMICAL IDENTITY

Chemical Name : Fuel Oil
Synonyms : Residual fuel Oil
Formula : *A Complex Mixture of hydrocarbons*

Chemical classification : *Fuel*
Trade Name : *Furnace oil*
C.A.S. No. :
U.N.No. : 1993

Regulated Identification Shipping Name : *Furnace oil*
Codes / Label : *30/Class 3, Flammable Liquid*

Hazchem No. :
Hazardous Waste I.D No. : *5*

HAZARDOUS INGREDIENTS

C.A.S. No.

2. PHYSICAL AND CHEMICAL DATA

Boiling Range : Data Not available Physical state : *Black viscous liquid @ 15°C & 1 atm* Appearance: *Black*
Vapour pressure: *< 0.1 psi @ 38°C* Odour : *Characteristic* Freezing point: *0 - 21°C*
Others: *Insoluble and floats in water*
Vapour Density: *Heavier Than air*
Specific Gravity: *0.88 to 0.99 gm/ml @ 15°C* pH: *Not pertinent*

3. FIRE AND EXPLOSION HAZARD DATA

Flammability : *Yes* LEL : *1.0 %* Flash Point : *> 66°C* (CC)
TDG Flammability : *3* UEL : *5.0 %* Flash Point : *> 70°C* (OC)

Auto ignition Temperature : *220 - 300°C*
Explosion sensitivity to impact : *Stable*
Explosion sensitivity to static Electricity : *Stable*
Hazardous Combustion Products : *Acrid smoke and irritating fumes of CO / CO₂ / NO_x*
Hazardous Polymerization : *Does not occur*

Combustible Liquid : *Yes* Explosive Material : *No* Corrosive Material : *No*
Flammable Material : *Yes* Oxidiser : *No* Others : *No*
Pyrophoric Material : *No* Organic Peroxide : *No*

4. REACTIVITY DATA

Chemical Stability : *Chemically Stable*
Incompatibility with other material : *Incompatible with strong oxidisers.*
Reactivity : *Does not react with common materials but may react with oxidising agents.*
Hazardous Reaction products : *Data not available*

5. HEALTH HAZARD DATA

Routes of entry: *Inhalation / Ingestion / Skin / Eye*

Effects of Exposure / : *Inhalation : Dizziness, headache*
Symptoms : *and bluish tint to the skin.*

: *Ingestion : Spontaneous vomiting. Irritation of mouth, throat and gastro intestinal tract*

Skin : *Irritation, Prolonged or repeated contact should be avoided, otherwise skin chapping, cracking or possible contact dermatitis may occur. Dry skin, erythema, oil acne, and oil folliculitis & watery growth may occur which may become skin cancer subsequently on repeated exposure.*

Eye : *light to moderate irritation*

Emergency Treatment : *If inhaled, Remove victim to fresh air, give artificial respiration if required, remove contaminated clothing quickly, do not induce vomiting if ingested, keep victim warm and quiet. Wash all the affected skin thoroughly with soap and water. Irrigate affected eyes with copious amount of water. Administration of Olive oil or any other vegetable oil may*

reduce adsorption thru digestive tract. Gastric lavage should be done only after endotracheal intubation in view of respiration which may cause serious chemical pneumonitis for which antibiotic and corticosteroid therapy may be indicated.

TLV (ACGIH)	: Not listed	STEL	: Not listed
PEL	: Not listed	Odour Threshold	: Not listed
LD ₅₀	: Not listed	Limit LD ₅₀	: Not listed

NFPA Hazard signal	Health : 1	Flammability : 3	Reactivity : 0	Special : Nil
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6. PREVENTIVE MEASURES

Personnel Protective Equipment : *Avoid contact with liquid or vapour.
Use gum boots, gloves while handling the product.*

Handling & Storage Precautions : *Store in dry, cool, ventilated area away from heat and flame.
Keep away from oxidising agents*

7. EMERGENCY AND FIRST AID MEASURES

FIRE Fire Extinguishing Media : *Foam / DCP / CO₂.*
Special Procedures : *Keep the containers cool by spraying water if exposed to fire.*
Unusual Hazards : *Flashback may occur along vapour trail.*

EXPOSURE First Aid Measures : *A/a* Antidotes / Dosages : *Not available*

SPILLS Steps to be Taken : *Shut off leaks without risk.
Contain leaking liquid on sand or earth
Prevent liquid from entering into sewers.*
Waste Disposal Method : *Seal all the waste in vapour tight plastic bags for eventual disposal.*

8. ADDITIONAL INFORMATION / REFERENCES

9. MANUFACTURERS / SUPPLIERS DATA : **HINDUSTAN PETROLEUM CORPORATION LIMITED**

10. DISCLAIMER

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