



HINDUSTAN PETROLEUM CORPORATION LIMITED
MUMBAI REFINERY
MATERIAL SAFETY DATA SHEET
AVIATION TURBINE FUEL

1. Identification of product and manufacturer details

Chemical name:	Aviation Turbine Fuel
Chemical Formula :	Complex Mixture of Hydrocarbons
CAS No :	8008-20-6
Synonyms:	Jet Fuel (JET A-1), ATF
General Use :	Fuel in Aircrafts
Manufacturer Name:	Hindustan Petroleum Corporation limited.
Address:	Mumbai Refinery B.D.Patil Marg, Mahul, Mumbai- 400074
Telephone Numbers for Information:	022-25076000
Date Prepared:	October 2020
Revision:	01

2. Composition / Information on Ingredients

Composition:	Mixture of hydrocarbons
Hazardous Components:	A petroleum distillate similar to Kerosene composed of aliphatics, naphthenes, aromatics and olefins
ACGIH TLV TWA:	100 mg / m3

3. Hazards Identification

Diamond	Color coding	Hazard	Value	Degree of Hazard
	Blue	Health	0	Minimum Hazard
	Red	Flammability	2	Moderate Hazard
	Yellow	Instability	0	Minimum Hazard
	White	Other		



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Primary Entry Routes:	Ingestion, inhalation, skin and eyes
Acute Effects:	Vapor causes slight irritation of eyes and nose. Liquid irritates stomach; if taken into lungs causes coughing, distress, and rapidly developing pulmonary edema.
Carcinogenicity :	Not listed as carcinogenic
Chronic Effects :	No data available

4. First Aid Measures

Eyes:	Flush with water for 15 min. Get medical attention.
Skin:	Wash with warm water & soap.
Inhalation:	Remove the person from exposure to fresh air. Transfer to medical facility.
Ingestion:	Seek medical attention immediately. Gastric dosage and induction of vomiting not advisable because of the possibility of the development of chemical pneumonia..

5. Fire Fighting Measures

Appearance:	Colorless to pale yellow
Physical State:	Liquid
Flash Point:	> 35 °C
Flash Point Method:	Abel Flash point
Auto ignition	
Temperature:	228 °C
LEL:	0.7 %
UEL:	5.0 %
Flammability	
Classification:	Flammable
Extinguishing Media:	Foam, Dry Chemical Powder, CO ₂ , use blanketing or smothering technique with foam for best results. Water may be ineffective but may be used to cool fire exposed containers.



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Unusual Fire or Explosion Hazards:	Dangerous fire and explosion hazard when exposed to heat or flame. Containers may explode in fire. The vapors are heavier than air and may travel for some distance to cause fire in flashback to source.
Hazardous Combustion Product:	Carbon di oxide, carbon mono oxide
Fire-Fighting Instructions:	Small fires can be extinguished by hand held extinguishers. Major fires may require withdrawal and allowing the tank to burn. Isolate fire area. Fire fighters should wear self breathing apparatus and fight fire from distance.

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.

7. Handling and Storage

Handling Precautions:	Do not use/store near heat/open flame. Avoid contact with liquid or vapors. Use gumboots, gloves while handling the product. Do not inhale. Stay upwind while handling the product. Kerosene 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
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8. Exposure Controls / Personal Protection

Engineering Controls:	Provide proper ventilation for environment to be below exposure limit.
Respiratory Protection:	Use respiratory protection if ventilation is improper



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Protective Clothing/

Equipment: Use goggles or face shield, rubber gloves, safety boots while handling. Contaminated clothing to be immediately removed.

9. Protection Physical and Chemical Properties

Physical State:	Liquid
Appearance and Odour:	Water white liquid may be dyed blue for detection. Characteristic Hydrocarbon like odour
Vapor Pressure:	< 1 psi at 38 °C
Specific Gravity:	> 0.75
Molecular Formula:	Varies with hydrocarbon mixture
Water Solubility:	Insoluble in water
Boiling Point:	130 °C to 300 °C at 760 mm Hg
Freezing Point :	< - 47 °C
Vapor Density:	4.5 (Air = 1)

10. Stability and Reactivity

Stability:	Chemically stable.
Chemical Incompatibilities:	Incompatible with oxidizing agents & chlorine. Reacts vigorously with oxidising materials.
Conditions to Avoid:	Can undergo auto-oxidation in air & generate heat which can build up in a confined space to cause spontaneous combustion
Hazardous Decomposition Products:	carbon di oxide, carbon mono oxide

11. Toxicological Information

ACGIH TLV TWA:	100 mg / m ³
LD50 (Oral-Rat):	NA
Acute Inhalation Effects:	No data available



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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 carbon di oxide, carbon mono oxide.

13. Disposal Considerations

Waste must be disposed of in accordance with central, state and local environmental control regulations.

14. Transport Information

Shipping Name: Aviation Turbine Fuel, Jet A-1

15. Regulatory Information

Non - Toxic/Flammable Substance

16. Other Information

ATF specifications are guided by DGCA and would confirm to DEFSTAN Issue:11

Prepared by: HPCL- Mumbai Refinery

Disclaimer: The information and recommendations presented herein are based on sources believed 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 interpreted as a permission or recommendation for the use of any product in a manner that might infringe existing patents.

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