



JOPETROL

Jordan Petroleum Refinery Company LTD

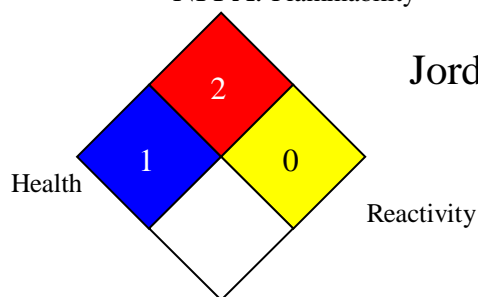
Material Safety Data Sheet : Jet Fuel (A-1)

NFPA: Flammability

JPRC PR-04

Jordan Petroleum Refinery Company

HMIS III:



Health	1
Flammability	2
Reactivity	0

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Aviation Jet Fuel (JET A-1)
 MSDS Number : JPRC PR-04 revision 1
 Product Use Description : Fuel
 Company : Jordan Petroleum Refinery Amman – Jordan
 : TEL: + 962 6 4630151 or 4657600
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Chemical Description : Petroleum distillate fuel

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS.

Substance/mixture: Mixture
 A mixture of kerosene streams, may also contain small quantities of proprietary performance additives.

Component	CAS No.	Range (vol.) %
Kerosene (Petroleum), sweetened	91770-15-9	70-100
Distillates (Petroleum), Mildly Hydrotreated kerosene	64742-47-8	0-30

SECTION 3. HAZARDS IDENTIFICATION

Regulatory status	: This material is considered hazardous by (OSHA)
Signal Word	: WARNING
Potential Health Effect	
Ingestion	: This material can irritate the mouth, throat, stomach, and cause nausea, vomiting, diarrhea and restlessness. Aspiration into the lungs will cause chemical pneumonia.
Eye	: Eye irritation may result from contact with liquid, mists, and / or vapors.
Skin	: Skin irritation leading to dermatitis may occur upon prolonged or repeated contact.
Inhalation	: Vapors or mists from this material can irritate the nose, throat, and lungs, and can cause signs and symptoms of central nervous system depression, depending on the concentration and duration of exposure
Supplemental Information	: This product contains petroleum distillates similar to those shown to produce skin tumors on laboratory animals. Avoid prolonged or repeated skin contact. Caution is recommended for pre-existing central nervous system diseases. skin disorders, or chronic respiratory diseases should avoid exposure to this product.

SECTION 4. FIRST AID MEASURES

Eye	: Flush with clean low-pressure water for at least 15 minutes. If irritation persists, obtain medical attention.
Skin	: Immediately remove contaminated clothing. Wash affected area thoroughly with soap and water. If irritation persists, seek medical attention. Wash clothing thoroughly before reuse, but discard contaminated leather goods.
Inhalation:	: Immediately remove from contaminated area to fresh air. For respiratory distress, give oxygen or administer CPR (cardiopulmonary resuscitation), if necessary.
Ingestion	: Do not induce vomiting, since aspiration into the lungs will cause chemical pneumonia. Must obtain medical attention promptly.
Note to Physical	: Must obtain medical attention promptly. Personnel with pre-existing skin disorders or chronic respiratory diseases should avoid exposure to this product.

SECTION 5. FIRE-FIGHTING MEASURES

Form	: Liquid
Flash Point	: > 42 °C (ASTM – D56)
Lower explosive limit	: 0.7
Upper explosive limit	: 5.0
Suitable extinguishing media	: Dry chemical foam, carbon dioxide, and halon. Water fog or water spray is of value for cooling, but may not achieve extinguishment.

- Unusual fire and explosion hazards : Moderately combustible! This material will release flammable vapors, which if exposed to an ignition source can burn in the open or be explosive in confined spaces. Mists or sprays may be flammable at temperatures below the normal flash point.
- Special Protective equipment
For fire-fighters : For fires involving this material, do not enter any enclosed fire space without proper protective equipment, including self-contained breathing apparatus.
Cool tanks and containers exposed to fire with water.
- Auto ignition temperature : 210 ° C

SECTION 6. ACCIDENTAL RELEASE MEASURES

1- Actions if material is spilled or leaked :

- Land spill : Eliminate sources of ignition. Shut off source taking normal safety precautions. Take measures to minimize the effect on ground water. Recover by pumping using explosion-proof equipment or contain spilled liquid with sand or other suitable Environmental absorbent and remove mechanically into containers. If necessary, dispose of absorbed residues as directed in the waste disposal methods discussion.
- Water spill : Eliminate sources of ignition and warn other ships in the vicinity to stay clear.
Notify port and other relevant authorities.
Confine with booms if skimming equipment is available to recover the spill. Otherwise, disperse in unconfined waters, if permitted by local authorities and environmental agencies.
- Environmental precautions : Prevent material from entering sewers, water sources or low-lying areas; advise the relevant authorities if it has, or if it contaminates soil / vegetation.
- Personal precautions : Use proper protective equipment.
- 2- Waste disposal method s : Use material for its intended purpose or recycle if possible.
Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination.
This material is classified as a hazardous waste and requires disposal at a licensed hazardous waste disposal facility.

SECTION 7. HANDLING AND STORAGE

Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when this material is loaded into tanks previously containing gasoline or other low flash point product. Keep containers closed and away from heat and ignition sources.

All electrical equipment in areas where product is stored handled should be installed in accordance with applicable requirements of the National Electric Code, N.F.P.A. Do not use this product as a cleaning agent. Empty containers retain some liquid and vapor residues, and hazard precautions must be observe when handling empty containers.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary measures:

- Eye protection : Eye protection (chemical-type goggles and/or face shield) should be worn whenever there is a likelihood of splashing or spraying liquid.
Contact lenses should not be worn.
Eyewash water should be provided.
- Skin protection : Avoid prolonged or repeated skin contact.
If conditions or frequency of use present danger of exposure, clean and impervious protective clothing such as gloves, apron, boots, and facial protection should be worn.
- Respiratory protection : This material is not expected to present a respiratory hazard because of its low vapor pressure. But, if excessive mist or vapors result from conditions of use, wear proper NIOSH/MSHA- approved respiratory equipment.
- Ventilation : Use adequate ventilation to keep vapor concentrations of this material below the occupational exposure limits.
- Other information : Use good personal hygiene practices. In case of skin contact, wash with mild soap and water or a waterless hand cleaner.
Immediately remove soiled clothing and wash thoroughly before reuse.
Discard contaminated shoes.

Exposure Limits

Component

Value

Kerosene

: ACGIH / TLV 200 mg/m³ (TWA)

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	Liquid
Appearance	:	Bright and clear
Odor	:	Hydrocarbon odor
Flash Point	:	> 42 °C
Freezing point	:	< -47 °C
Boiling point	:	145-300 °C
Viscosity	:	< 8 mm ² /s @ -20 °C
Density	:	775-840 Kg/m ³ @15 °C
Water solubility	:	Insoluble
Lower explosive limit	:	0.7 % V
Upper explosive limit	:	5.0 % V

SECTION 10. STABILITY AND REACTIVITY

Materials to Avoid	:	Reacts with strong acids and strong oxidizing materials
Hazardous decomposition products	:	Burning or excessive heating may produce carbon monoxide and other harmful gases and vapors including oxides and / or other compounds of sulfur.
Conditions to Avoid	:	Heat, sparks, and opens flame.

SECTION 11. TOXICOLOGICAL INFORMATION

Skin irritation	:	Irritating to skin.
Eye irritation	:	Irritating to eyes.

SECTION 12. ECOLOGICAL INFORMATION

Additional Ecological Information	:	Release of this product should be prevented from contaminating soil and water and from entering drainage and sewer systems.
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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal: : Whatever cannot be saved for recovery or recycling should be Handled as hazardous waste. Processing, use or contamination of this product may change the waste management options.
Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14. Regulatory Information

Hazard categories :

Acute Health Hazard:	Yes
Chronic Health Hazard:	Yes
Fire Hazard:	Yes
Pressure Hazard:	No
Reactive Hazard:	No

SECTION 15. TRANSPORTATION INFORMATION

This material is transported in accordance with the related Jordanian laws.

SECTION 16. OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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