



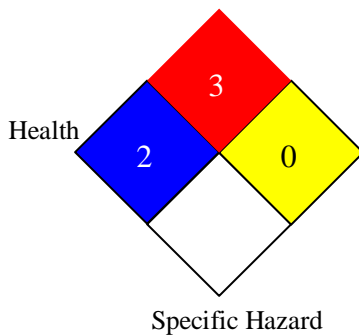
# JOPETROL

Jordan Petroleum Refinery Company LTD

## Material Safety Data Sheet Kerosene

JPRC PR-03

NFPA: Flammability



Reactivity

HMIS III:

**Jordan Petroleum Refinery Company**

Health	2
Flammability	3
Reactivity	0

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

- Product name : Kerosene
- MSDS Number : JPRC PR-3
- Product Use Description : Fuel for use in domestic and commercial heating and lighting equipment
- Company : Jordan Petroleum Refinery Company (JPRC)  
Amman – Jordan.  
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- Chemical Description : Mixture of Petroleum hydrocarbons

## SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS.

Components	CAS No.	Percent	Hazardous
Kerosene	8008-20-6	90-100 %	Yes

## SECTION 3. HAZARDS IDENTIFICATION

<u>Emergency Overview</u>	: - Danger, harmful or fatal if swallowed. - Harmful if inhaled. - May causes irritation to eyes, skin and respiratory tract. - Affects central nervous system. - Flammable liquid and vapor.
Health	: Category 2
Flammability rating	: Category 3
Reactivity rating	: Category 1
Contact rating	: Category 1
Lab protective equipment	: Goggles; Lab coat; Vent hood; Proper gloves; Class B extinguisher.
Strong color code	: Red ( Flammable).
<u>Potential Health Effects</u>	
Ingestion	: Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea. A potential aspiration hazard if swallowed. May cause damage to the lungs. Symptoms may parallel inhalation exposure.
Eye contact	: May cause severe irritation and pain.
Skin contact	: Causes irritation to skin. Symptoms include redness, itching, and pain dermatitis.
Inhalation	: Inhalation causes irritation to respiratory tract. Symptoms may include coughing, shortness of breathing sensation in chest, headache, nausea, weakness, restlessness and in coordination, drowsiness and coma.
Chronic Exposure	: No information found
Aggravation of pre-existing conditions.	: No information found.

## SECTION 4. FIRST AID MEASURES

- Eye contact : Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15minutes.  
Get medical attention.
- Skin contact : In case of contact, immediately flush skin with plenty of water.  
Cover the irritated skin with an emollient.  
Remove contaminated clothing and shoes.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.  
Get medical attention.
- Serious skin contact : Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream.  
Seek immediate medical attention.
- Ingestion : If swallowed, do not induce vomiting.  
Do not induce vomiting unless directed to do so by medical personnel.  
Never give anything by mouth to an unconscious person.  
Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Inhalation : If inhaled, remove to fresh air.  
If not breathing, give artificial respiration.  
If breathing is difficult, give oxygen.  
Get medical attention immediately.
- Serious inhalation : Evacuate the victim to a safe area as soon as possible.  
Loosen tight clothing such as a collar, tie, belt or waistband.  
If breathing is difficult, administer oxygen.  
If the victim is not breathing, perform mouth-to-mouth resuscitation.

**WARNING:** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation.

## SECTION 5. FIRE-FIGHTING MEASURES

Form	: Liquid
Flash Point	: 38 ° C
Lower explosive limit	: 0.7
Upper explosive limit	: 5.0
Auto ignition temperature	: 210 ° C
Suitable extinguishing media	: Dry chemical, foam or carbon dioxide. Water spray may be used to keep fire exposed containers cool.
Explosion	: Sealed containers may rupture when heated. Above the flash point, explosive vapor-air mixture may be formed. Vapor can flow along surfaces to distant ignition source and flash back.
Special Protective equipment For fire-fighters	: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.
Hazardous Reaction	: Contact with strong oxidizers may cause

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill.  
Remove all sources of ignition.  
Wear appropriate personal protective equipment as specified in section 8. Isolate hazard area.  
Keep unnecessary and unprotected personnel from entering.  
Contain and recover liquid when possible.  
Use non-sparking tools and equipment.  
Collect liquid in an appropriate container or absorb with an inert material (e.g. vermiculite, dry sand, earth), and place in a chemical waste container.  
Do not use combustible material, such as sawdust.  
Do not flush to sewer! If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures.

## SECTION 7. HANDLING AND STORAGE

Protect against physical damage.

Store in a cool, dry well-ventilated location; away from any area where the fire hazard may be acute.

Outside or detached storage is preferred.

Separate from incompatibles.

Containers should be bonded and grounded for transfers to avoid static sparks.

Storage and use areas should be no smoking areas.

Use non-sparking type tools and equipment, including explosion proof ventilation. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

Do not attempt to clean empty containers since residue is difficult to remove.

Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, sparks, flame, static electricity or other sources of ignition: they may explode and cause injury or death.

## SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Guidelines:

List	Component	Type	Value
ACGIH	Kerosene	TLV	200 mg/m <sup>3</sup> (TWA)

(Application restricted to conditions in which there are negligible aerosol exposure).

A4- Not classifiable as a human carcinogen.

- Ventilation system : In general, dilution ventilation is a satisfactory health hazard control for this substance.  
However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.
- Eye protection : Use chemical safety goggles and /or a full face shield where splashing is possible.  
Maintain eyewash fountain and quick-drench facilities in work area.
- Skin protection : Wear impervious protective clothing, including boots, gloves, lab coat, apron or overalls, as appropriate, to prevent skin contact
- Personal Respirators (NIOSH Approved) : For conditions of use where exposure to the substance is apparent and engineering controls are not feasible, consult an industrial hygienist.  
For emergencies, or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator
- WARNING : Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Liquid
Appearance	: Pale yellow or water-white, mobile, oily liquid
Odor	: Characteristic Petroleum distillate
Flash Point	: Min 38 ° C
Auto Ignition temperature	: 210 °C (410 °F)
Lower explosive limit	: 0.7
Upper explosive limit	: 5.0
Boiling point	: 175 – 325 ° C ( 347 – 617 F)
Vapor density	: 4.5 (Air = 1)
Density	: Max 0.82 mg/ml @ 15 ° C
Water solubility	: Insoluble in water

## SECTION 10. STABILITY AND REACTIVITY

Stability	: Stable under ordinary condition of use and storage
Hazardous Polymerizations	: Will not occur
Hazardous Decomposition	: Carbon dioxide and carbon monoxide may form when heated to decomposition
Conditions to Avoid	: Heat, flames, ignition sources and incompatibles
Incompatibilities	: Strong oxidizers

## SECTION 11. TOXICOLOGICAL INFORMATION

### Carcinogenicity

Ingredient	NTP Carcinogen		
	Known	Anticipated	IARC Category
Kerosene (8008-20-6)	No	No	None

- Skin irritation : Cause moderate to severe skin irritation. It can cause defatting dermatitis.
- Eye irritation : May cause eye irritation.
- LD<sub>50</sub> : > 500 mg/kg.
- Other information : Kerosene irritation data (std Draize): skin, rabbit, 500mg, severe.  
Oral rat LD<sub>50</sub> : > 500 mg/kg.  
Investigated as a tumorigen and mutagen.

## SECTION 12. ECOLOGICAL INFORMATION

- Environmental Fate : When released into the soil, this material may biodegrade to a moderate extent.  
When released into the soil, this material may evaporate to a moderate extent.  
When released into water, this material may biodegrade to a moderate extent.  
This material may bio-accumulate to some extent.  
When released into the air, this material may be moderately degraded by reaction with photo-chemically produced hydroxyl radicals.

- Environmental Toxicity : No information found

## SECTION 13. DISPOSAL CONSIDERATIONS

- Disposal : Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to an approved waste facility.

Dispose of container and unused contents in accordance with Jordanian applicable laws and regulations.

## SECTION 14. OTHER INFORMATION

- NFPA Ratings : Health : 2,  
Flammability : 3,  
Reactivity : 0 .

- Label Hazard Warning : Danger! Harmful or fatal if swallowed.  
Harmful if inhaled.  
Cause irritation to skin, eyes and respiratory tract.  
Affects central nervous system.  
Flammable liquid and vapor.
- Label Precautions : Wash thoroughly after handling.  
Avoid breathing vapor or mist.  
Keep container closed.  
Use only with adequate ventilation.  
Avoid contact with eyes, skin and clothing.  
Keep away from heat, sparks and flame
- Label First Aid : Aspiration hazard.  
If swallowed, vomiting may occur spontaneously, but do not induce.  
If vomiting occurs, keep head below hips to prevent aspiration into lungs.  
Never give anything by mouth to an unconscious person.  
Call a physician immediately.  
If inhaled, remove to fresh air.  
If not breathing, give artificial respiration.  
If breathing is difficult, give oxygen.  
In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes.  
Remove contaminated clothing and shoes.

## SECTION 15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Classification triggering components : Contains kerosine.

## SECTION 16. OTHER INFORMATION

- Additional Information : This document contains important information to ensure the safe storage, handling and use of this product. The information in this document should be brought to the attention of the person in your organization responsible for advising on safety matters.
- Disclaimer : This information is based on our current knowledge and is intended to describe the product for the



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