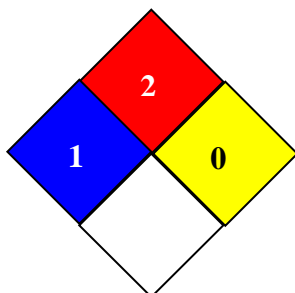




Jordan Petroleum Refinery Company LTD.
Safety and Environment Department
Material Safety Datasheet : Kerosene

NFPA Classification :

JPRC PR-03



Flammability	2
Health	1
Reactivity	0

Section 1: Product and Company Identification

Product Name : Kerosene
MSDS Number: JPRC PR-03
Company: Jordan Petroleum Refinery Company LTD.
Amman – Jordan.
TEL: + 962 6 4630151 or 4657600
FAX: + 962 6 4657934 or 4657939
P.O.BOX: 3396 Amman 11181 – Jordan
P.O.BOX: 1079 Amman 11118 – Jordan
Website: <http://www.jopetrol.com.jo>
E-mail: addewan@jopetrol.com.jo

Section 2: Composition / Information on ingredients

Component	CAS Number	%
Kerosene	8008-20-6	90-100

Section 3: Hazard Identification

- Hazard Phrases:

- Combustible Liquid.
- May be fatal if swallowed and enters airways.
- Causes skin irritation.
- May cause drowsiness or dizziness.

- Eye contact : Contact with liquid or vapor may cause mild irritation.
- Skin contact : Practically non-toxic if absorbed following acute (single) exposure. May cause skin irritation with prolonged or repeated contact. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are exposed repeatedly.
- Ingestion : The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Ingestion may cause severe health effects including nausea, vomiting and diarrhea, and central nervous system (brain) effect.



Inhalation : Excessive exposure may cause irritations to the nose, throat, lungs and respiratory tract. Central nervous system (brain) effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.

WARNING: the burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, and death.

CHRONIC EFFECTS and CARCINOGENICITY: Similar products produced skin cancer and systemic toxicity in laboratory animals following repeated applications. The significance of these results to human exposures has not been determined.

Section 4: First Aid Measures

Eye contact	:	In case of contact with eyes, immediately flush with clean water for at least 15 min. Hold eyelids open to ensure adequate flushing. Seek medical attention.
Skin contact	:	Remove contaminated clothing. Wash contaminated areas thoroughly with soap and water. Obtain medical attention if irritation or redness develops.
Inhalation	:	Remove person to fresh air. If person is not breathing, ensure an open airway and provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.
Ingestion	:	DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Small amounts of material that enter the mouth should be rinsed out until the taste is dissipated.

Section 5: Firefighting Measures

Suitable extinguishing media	:	Use water fog, alcohol foam, carbon dioxide, or dry chemical. Do not use a steady stream of water. Product may float on the surface of water and create a floating fire hazard.
Specific hazards arising from the chemical	:	This product is flammable and forms explosive mixtures with air. Vapors are heavier than air and will travel along surfaces to remote ignition sources and flash back. Closed containers may explode if exposed to extreme heat. Combustion may produce carbon oxides and other products of incomplete combustion.
Special protective equipment and precautions for fire-fighters	:	Firefighters should wear full emergency equipment and a NIOSH approved positive pressure self-contained breathing apparatus. Cool fire exposed container with water. Do not allow run-off from firefighting to enter drains or water courses.



Section 6: Accidental Release Measures

- Personal precautions, protective equipment, and emergency procedures : Wear appropriate protective equipment. Eliminate ignitions sources and ventilate the area with explosion proof equipment. Wash thoroughly after handling.
- Environmental precautions : Avoid release into the environment.
- Methods and materials for containment and cleaning up : Contain with an inert absorbent and place into a closable container for disposal. Use non-sparking tools and equipment. If spill has not ignited, use water spray to disperse the vapors and protect personnel attempting to stop leak. Prevent entry in storm sewers and waterways. Runoff can cause a fire or explosion hazard in sewers.

Section 7: Handling and storage

- Precautions for safe handling : Avoid contact with the eyes, skin and clothing. Avoid breathing vapors or mists. Wear protective clothing and equipment. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep product away from heat, sparks, flames and all other sources of ignition. Do not permit smoking in use or storage areas. Use with non-sparking tools and explosion proof equipment. Electrically bond and ground containers for transfer.
- Do not cut, drill, grind or weld on or near containers, even empty containers. Do not reuse containers. Empty containers retain product residues which can be hazardous. Follow all SDS precautions when handling empty containers.
- Conditions for safe storage, including any incompatibilities : Store in accordance with regulations for the storage of flammable liquids. Store in a dry, well ventilated area away from heat, direct sunlight and all sources of ignition. Store away from oxidizers and other incompatible materials. Protect containers from physical damage.

Section 8: Exposure controls / Personal protection

- Engineering controls : Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.
- Eye/face protection : Safety glasses or goggles are recommended where there is a possibility of splashing or spraying.
- Skin protection : Impervious gloves such as nitrile recommended to prevent skin contact.
- Respiratory protection : If exposures are exceeded, use a NIOSH approved organic vapor respirator appropriate for the form and concentration of the



contaminants should be used. Selection of respiratory protection depends on the contaminant type, form and concentration.

Section 9: Physical and Chemical Properties

Appearance	:	Clear colorless to slight yellow liquid
odor	:	Characteristic
Flash point	:	38 °C
Boiling Point	:	149 to 304 °C
Flammable Limits	:	0.7 % - 5.0%
Lower and upper explosive (flammable) limits	:	Lower: 1.4% Upper: 7.6%
Vapor pressure	:	0.480 mm Hg @ 20 °C
Vapor Density	:	4.5
Solubility	:	Insoluble in water.

Section 10: Stability and Reactivity

Reactivity	:	Material is not self-reacting. Flammable concentrations may be present in air. Compound can react with oxidizing materials.
Stability	:	This is a stable material that is flammable liquid (OSHA/GHS hazard category 3). Stable during transport.
Possibility of Hazardous Reactions	:	Hazardous polymerization will not occur
Incompatibility	:	Keep away from strong oxidizers such as nitric and sulfuric acids.
Conditions to avoid	:	Avoid high temperatures, open flames, sparks, static electricity, welding, smoking and other ignition sources.
Hazardous Decomposition Products	:	Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

Section 11: Toxicological information

Acute Toxicity (Inhalation LC50) Kerosene (8008-20-6) LC50 Inhalation Rat	>	5.28 mg/l/4h
Acute Toxicity (Dermal LC50) Kerosene (8008-20-6) LD50 Dermal Rabbit	>	2000 mg/kg
Acute Toxicity (Oral LC50) Kerosene (8008-20-6) LD50 Dermal Rabbit	>	5000 mg/kg



Section 12: Ecological information

- This material is expected to be toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.
- Avoid release to the environment.

Section 13: Disposal Considerations

Disposal of waste material must be performed in accordance with Ministry of Environment regulations.

Section 14: Transport information

Transport of this product is carried out in compliance with local legislation, taking into account safety and environmental precautions.



Section 15: Regulatory information

OSHA Hazard Communication Standard :

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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.

Prepared by : Safety and Environment Department
Revision Date : Jan/2022