Material Safety Data Sheet

Kerosene (RXSOL-19-1208-025)

1. Product and Company Identifaction

Product Name	**RXSOL-19-1208-025**
Product Type	**KEROSENE**

Company Details:

RX MARINE INTERNATIONAL
105, A wing, BSEL, TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Stock Point : Mumbai, Kandla, Kolkata, Chennai, Vizag, Fujairah, Muscat

Phone	+91 22 65113333 / 5555 / 9999 / 27611360
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Email	mail@rxmarine.com

2. Composition / informationon ingredients

Chemical Name	CAS #	% by weight
Kerosene	8008-20-6 or 64742-81-0	100

Toxicological Data on Ingredients: Kerosene: ORAL (LD50): Acute: 15000 mg/kg [Rat]. 20000 mg/kg [Guinea pig]. 2835mg/kg [Rabbit].

3. Hazards Identification

Potential Acute Health Effects	Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator). Severe over-exposure can result in death.
Potential Chronic Health Effects	Slightly hazardous in case of skin contact (sensitizer).
Carcinogenic Effects	Not available.
Mutagenic Effects	Mutagenic for bacteria and/or yeast.
Teratogenic Effects	Not available.
Developmental Toxicity	Not available.

The substance is toxic to the nervous system.The substance may be toxic to blood, kidneys, liver, central nervous system (CNS).Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

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 15 minutes. 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.
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 when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

Ingestion:	If swallowed, do NOT induce vomiting. If swallowed, 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.
Serious Ingestion	Not available.

5. Fire-fighting Measures

FlammabilityoftheProduct	Flammable.
Auto-IgnitionTemperature	210°C(410°F)
FlashPoints	CLOSEDCUP:38°C(100.4°F).(Tagliabue.)
FlammableLimits	LOWER:0.7%UPPER:5%-7%
ProductsofCombustion	Notavailable.
Fire Hazardsin Presenceof Various Substances	Flammable in presence of open flame sand sparks,ofheat.

Explosion Hazardsin Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact	Not available.
Risks of explosion of the product in presence of static discharge	Not available.

Fire Fighting Media and Instructions:

Flammable liquid, insoluble in water.

SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use water spray or fog. Cool containing vessels with water jet in order to prevent pressure

build-up, autoignition or explosion.

Special Remarks on Fire Hazards: Not available. Special Remarks on Explosion Hazards: Not available.

6. Accidental Release Measures

Small Spill	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
Large Spill	Toxic flammable liquid, insoluble or very slightly soluble in water. Poisonous liquid. Keep away from heat. Keep away from sources of ignition.St -op leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disp -osal.

7. Handling and Storage

Precautions	Keep locked up.. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.
Storage	Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

8. Exposure controls and personal protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal Protection	Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits	Not available.

9. Physical and chemical properties

Physical state and appearance	Liquid. (Oily liquid.)
Odor	Not available.
Taste	Not available.
Molecular Weight	Not available.
Color	Yellow. Clear (Light.)
pH (1% soln/water)	Not applicable
Boiling Point	149°C (300.2°F) - 325 C
Melting Point	Not available.
Critical Temperature	Not available.
Specific Gravity	840(Water = 1)
Vapor Pressure	0.1 kPa (@ 20°C)
Vapor Density	4.5 (Air = 1)
Volatility	Not available.
Odor Threshold	Not available.
Water/Oil Dist. Coeff	Not available.
Dispersion Properties	Not available.
Solubility	Insoluble in cold water, hot water.Miscible with other petroleum solvents

10. Stability and reactivity

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Heat, ignition sources (sparks, flames), incompatible materials
Incompatibility with various substances	Reactive with oxidizing agents.
Corrosivity	Not considered to be corrosive for metals and glass
Special Remarks on Reactivity	Not available.
Special Remarks on Corrosivity	Not available.
Polymerization	Will not occur.

11. Toxicological information

Routes of Entry	Absorbed through skin. Eye contact.
Toxicity to Animals	Acute oral toxicity (LD50): 2835 mg/kg [Rabbit].
Chronic Effects on Humans	
MUTAGENIC EFFECTS	Mutagenic for bacteria and/or yeast.
Causes damage to the following organs	the nervous system.
May cause damage to the following organs	blood, kidneys, liver, central nervous system (CNS).
Other Toxic Effects on Humans:	Hazardous in case of skin contact (irritant), of ingestion, of inhalation (lung irritant).Slightly hazardous in case of skin contact (permeator).
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	May affect genetic material (mutagenic)

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects:

Skin	Causes moderate to severe skin irritation. It can cause defatting dermatitis.
Eyes	May cause eye irritation

Inhalation: May cause respiratory tract and mucous membrane irritation and a burning sensation in the chest. Because of its relatively low volatility, overexposure by inhalation is uncommon, but it can occur in poorly ventilated areas or by inhalation of mists or aerosols. Symptoms of inhalation overexposure include central nervous system (CNS) depression (transient euphoria, headache, irritability, excitement, ringing in the ears, weakness, incoordination, confusion, disorientation, drowsiness, tremor, somnolence, hallucinations, seizures, coma, death). May affect the heart (cardiac arrhythmias), liver, kidneys, and respiration(asphyxia, apnea, acute pulmonary edema, dyspnea, fibrosis, or cyanosis) Ingestion: Causes gastrointestinal tract irritation with burning sensation in mouth, esophagus, and stomach, respiration/trachea/bronchi through accidental pulmonary aspiration which can cause hypoxia, chemical pneumonitis, and noncardiogenic pulmonary edema, pulmonary haemorrhage, coughing, breathing difficulty, acute or chronic pulmonary edema, emphysema, respiratory stimulation. It may also affect the heart (dysrrhythmias, myocardial depression, tachycardia), liver, endocrine system (pancreas-hypoglycemia), behavior/central nervous system (symptoms similar to that of inhalation). Chronic Potential Health Effects: Inhalation: Repeated or prolonged inhalation may cause respiratory tract irritation and affect behaviour/central nervous system with symptoms similar to that of acute inhalation. It may also affect the blood (changes in white blood cell count, changes in serum compositon, pigmented or nucleated red blood cells, leuko-penia, normocytic anaemia) , cardiovascular system, respiratory system (trachea, bronchi), and may cause kidney damage. Ingestion: Repeated or prolonged ingestion may affect the liver, endocrine system (adrenal gland, pancreas, spleen), and metabolism (weight loss), and blood. Skin: Repeated or prolonged skin contact may cause defatting dermatitis, erythema, and eczema-like skin lesions, drying and cracking of the skin, and possible burns.

12. Ecological information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long-term degradation products may arise
Toxicity of the Products of Biodegradation	Not available.
Special Remarks on the Products of Biodegradation	Not available.

13. Disposal considerations

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

14. Transport information

DOT Classification	CLASS 3: Flammable liquid.
Identification	Kerosene UNNA: 1223 PG: III
Special Provisions for Transport	Not available.

15. Regulatory information

Federal and State Regulations	
Connecticut hazardous material survey	Kerosene
Rhode Island RTK hazardous substances	Kerosene
Pennsylvania RTK	Kerosene
Massachusetts RTK	Kerosene
Massachusetts spill list	Kerosene
New Jersey	Kerosene

TSCA 8(b) inventory KeroseneKerosene

Other Regulations:	
OSHA	Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
EINECS	This product is on the European Inventory of Existing Commercial Chemical Substances.
Other Classifications	
WHMIS (Canada)	
CLASS B-3	Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).
CLASS D-2B	Material causing other toxic effects (TOXIC).
DSCL (EEC):	
DSCL (EEC):	
R65- Harmful	may cause lung damage if swallowed
S23- Do not breathe gas/fumes/vapour/spray	
S24- Avoid contact with skin.	
S62- If swallowed,	
do not induce vomiting	seek medical advice immediately and show this container or label.
HMIS (U.S.A.):	
Health Hazard	2
Fire Hazard	2
Reactivity	0
Personal Protection:	h
National Fire Protection Association (U.S.A.):	
Health	0
Flammability	2
Reactivity	0
Specific hazard	
Protective Equipment:	

Gloves.
Lab coat. Vapour respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.Splash goggles.

16. Other information

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