

1. Product and Company Identification

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

Product Type **KEROSENE**

Company Details:

RX MARINE INTERNATIONAL
105, A wing, BSEL, TECH PARK.
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2. Composition / Information on ingredients

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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

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Potential Acute Health Effects

Hazardous in case of skin contact (irritant), of eye contact (irritant) and inhalation. Slightly hazardous in case of skin contact (permeator). Severe skin burns and eye damage 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

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Eye Contact

Check for and remove any contact lenses. In case of contact, immerse eyes in 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 a protective 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 not breathing, perform mouth-to-mouth resuscitation. WARNING: It is dangerous to the person providing aid to give mouth-to-mouth resuscitation if the material is toxic, infectious or corrosive. Seek immediate medical attention.

Ingestion:

If swallowed, do NOT induce vomiting. If swallowed, do not induce vomiting 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 straps. Get medical attention immediately.

Serious Ingestion

Not available.

5. Fire-fighting Measures

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Flammability of the Product

Flammable.

Auto-Ignition Temperature

210°C (410°F)

Flash Points

CLOSED CUP: 38°C (100.4°F). (Tagliabue.)

Flammable Limits

LOWER: 0.7% UPPER: 5%-7%

Products of Combustion

Not available.

Fire Hazards in Presence of Various Substances

Flammable in presence of open flame and sparks, of heat.

Explosion Hazards in 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

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Small Spill

Absorb with an inert material and put the spilled material in an appropriate container for disposal.

Large Spill

Toxic flammable liquid, insoluble or very slightly soluble in water. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other inert 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 spaces if needed. Call for assistance on disposal.

7. Handling and Storage

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Precautions

Keep locked up. Keep away from heat. Keep away from sources of ignition. Keep away from all equipment containing material. Do not ingest. Do not breathe vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately. See the container or the label. Avoid contact with skin and eyes. Do not mix with incompatible substances 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 contact with sources of ignition (spark or flame).

8. Exposure controls and personal protection

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Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the concentrations of vapors below their respective threshold limit values. Eyewash stations and safety showers are proximal to the work-station.

Personal Protection

Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained apparatus should be used to avoid inhalation of the product. Suggested clothing might not be sufficient; consult a specialist BEFORE handling.

Exposure Limits

Not available.

9. Physical and chemical properties

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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

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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

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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 (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 derm
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 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 depression (transient euphoria, headache, irritability, excitement, ringing in the ears, weakness, incoordination, confusion, disorientation, drowsiness, tremor, hallucinations, seizures, coma, death). May affect the heart (cardiac arrhythmias), liver, kidneys, and respiration(asphyxia, apnea, acute pulmonary edema, dyspnea, cyanosis) Ingestion: Causes gastrointestinal tract irritation with burning sensation in mouth, esophagus, and stomach, respiration/trachea/bronchi through aspiration which can cause hypoxia, chemical pneumonitis, and noncardiogenic pulmonary edema, pulmonary haemorrhage, coughing, breathing difficulty, pulmonary edema, emphysema, respiratory stimulation. It may also affect the heart (dysrhythmias, myocardial depression, tachycardia), liver, endocrine system (hypoglycemia), behavior/central nervous system (symptoms similar to that of inhalation). Chronic Potential Health Effects: Inhalation: Repeated or prolonged exposure cause respiratory tract irritation and affect behaviour/central nervous system with symptoms similar to that of acute inhalation. It may also affect the blood (decreased blood cell count, changes in serum composition, pigmented or nucleated red blood cells, leuko-penia, normocytic anaemia) , cardiovascular system, respiratory system (bronchi), and may cause kidney damage. Ingestion: Repeated or prolonged ingestion may affect the liver, endocrine system (adrenal gland, pancreas, spleen, thyroid), (weight loss), and blood. Skin: Repeated or prolonged skin contact may cause defatting dermatitis, erythema, and eczema-like skin lesions, drying and cracking, and possible burns.

12. Ecological information www.rxmarine.com

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

13. Disposal considerations www.rxmarine.com

Waste Disposal	Waste must be disposed of in accordance with federal, state and local control regulations.
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14. Transport information www.rxmarine.com

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

15. Regulatory information www.rxmarine.com

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 1910.120)
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°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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