

1. Product and Company Identification

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Product Name

May Cause Irritation 12

Product Type

RXSOL-41-8780-025

Company Details:

RX MARINE INTERNATIONAL

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2. Composition / Information on ingredients

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Ingredient	CAS #	Wt. %
Isobutane	75-28-5	60 - 100
Propane	74-98-6	10 - 30

3. Hazards Identification

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EMERGENCY OVERVIEW

HMIS: See Section 15

DANGER

EXTREMELY FLAMMABLE. HARMFUL BY INHALATION.

MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION.

CONTENTS UNDER PRESSURE. CONTAINER MAY EXPLODE IF HEATED.

Potential Health Effects: See Section 11 for more information.

Likely Routes of Exposure: Skin contact, eye contact, inhalation, and ingestion.

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: Not a normal route of exposure. Harmful: may cause lung damage if swallowed.

Inhalation: Harmful by inhalation. May cause respiratory tract irritation. May cause asphyxiation. This product may be aspirated into the lungs and cause chemical pneumonitis.

Chronic Effects: Prolonged or repeated contact may dry skin and cause irritation.

Signs and Symptoms: Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Handling can cause dry skin.

Medical Conditions Aggravated By Exposure: Asthma. Allergies.

Target Organs: Skin, eyes, gastrointestinal tract, respiratory system.

Potential Environmental Effects: May cause long-term adverse effects in the aquatic environment. See Section 12 for more information.

4. First Aid Measures

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Eye Contact: In case of contact, immediately flush eyes with plenty of water. If any to the person contact lenses, if worn.

Skin Contact: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get a physician if irritation develops and persists.

Information: If released, ensure to flush air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Exposure: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

General Advice: In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).

Note to Physicians: Symptoms may not appear immediately.

Flammability: Flammable by WHMIS/OSHA criteria.

Means of Extinction:

Suitable Extinguishing Media: Powder, foam, carbon dioxide.

Unsuitable Extinguishing Media: Water.

Products of Combustion: May include, and are not limited to: oxides of carbon.

Explosion Data:

Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available.

Protection of Firefighters: Containers may explode when heated. Keep upwind of fire. Wear

full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). ecommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. Ruptured cylinders may rocket.

Environmental Precautions: Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). This material is a water pollutant. Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

Methods for Containment: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for Clean-Up: Vacuum or sweep material and place in a disposal container. Allow gas to dissipate harmlessly into the atmosphere.

Other Information: Not available.

7. Handling and Storage

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Handling:

Keep away from sources of ignition. - No smoking. Avoid contact with skin and eyes. Use only in well-ventilated areas. Handle and open container with care. When using, do not eat or drink. Wash hands before eating, drinking, or smoking.

Storage:

Keep out of the reach of children. Keep container in a well-ventilated place. Do not store at temperatures above 49°C / 120°F. Keep away from food, drink and animal feedstuffs.

8. Exposure controls and personal protection

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Exposure Guidelines

Ingredient	Exposure Limits	
	OSHA-PEL	ACGIH-TLV
Isobutane	Not available.	Not available.
Propane	1000 ppm	1000 ppm

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Personal Protective Equipment: HMIS: See Section 15

Eye/Face Protection: Wear eye/face protection.

Hand Protection: Wear suitable gloves.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations: Handle according to established industrial hygiene and safety practices.

9. Physical and chemical properties

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Appearance:	Clear.
Color:	Colorless.
Odour:	Characteristic.
Odour Threshold:	Not available.
Physical State:	Gas/Pressurized Liquid
pH:	Not applicable.
Viscosity:	Not available.
Freezing Point:	Not available.
Boiling Point:	~ -43.7 °C (~ -46.6 °F)
Flash Point:	~ -104 °C (~ -156 °F)
Evaporation Rate:	> 1 (Water = 1)
Lower Flammability Limit:	Not available
Upper Flammability Limit:	Not available
Vapor Pressure:	70-80
Vapor Density:	> 1 (Air = 1)
Specific Gravity:	0.555 (Concentrate only)
Solubility in Water:	Negligible.
Coefficient of Water/Oil	Distribution: Not available
Auto-ignition Temperature:	Not available.
Percent Volatile, wt. %:	Not available.
VOC content, wt. %:	100% (US federal/CARB/OTC/LADCO)

10. Stability and reactivity

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Stability: Stable under normal storage conditions. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Keep in a cool place.

Conditions of Reactivity: Heat. Incompatible materials.

Incompatible Materials: Oxidizers.

Hazardous Decomposition Products: May include, and are not limited to: oxides of carbon.

Possibility of Hazardous Reactions: No dangerous reaction known under conditions of normal use

11. Toxicological information

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EFFECTS OF ACUTE EXPOSURE

Compassionate Angles: LC50 (oral) LC50
Isobutane: Not available. Not available.
Propane: Not available. Not available.
Risk: May cause eye irritation. Symptoms may include discomfort or pain, severe
stinging and tear production, with marked redness and swelling of the
eyes.
Skin: May cause skin irritation. Irritation on other dry skin.
Inhalation: Not a usual route of exposure. Inhaled may cause lung damage if swallowed.
Ingestion: Not a usual route of exposure. Ingested may cause lung damage if swallowed.
Application: This product may be applied into the lungs and cause chemical
burns.

EFFECTS OF CHRONIC EXPOSURE

Target Organ: Not available.
Chronic Effects: Not known by WARDEN/OSHA criteria.
Carcinogenicity: Not known by WARDEN/OSHA criteria.

Ingredient Chemical Listed as Carcinogen or
Potential Carcinogen ?
Isobutane Not listed.
Propane Not listed.
* See Section 12 for more information.
Reproductive Effects: Not known by WARDEN/OSHA criteria.
Developmental Effects (Teratogenicity): Not known by WARDEN/OSHA criteria.
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Reproductive Effects (Teratogenicity): Not known by WARDEN/OSHA criteria.
Developmental Effects (Teratogenicity): Not known by WARDEN/OSHA criteria.

12. Ecological information

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Ecotoxicity:
May cause long term adverse effects in the aquatic environment.

Persistence / Degradability:
Not available.

Bioaccumulation / Accumulation: Not available.

Mobility in Environment: Not available.

13. Disposal considerations

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Disposal Instructions:
This material must be disposed of in accordance with all local, state, provincial, and federal
regulations.

14. Transport information

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DOT Classification
ORM-D

TDC Classification
Limited Quantity

15. Regulatory information

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Federal Regulations

Canadian: This product has been classified in accordance with the hazard criteria of the
Controlled Products Regulations and the MSDS contains all the information required by the
Controlled Products Regulations.

US: MSDS prepared pursuant to the Hazard Communication Standard (29 CFR 1910.1200).

SARA Title III

Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
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Isobutane	Not listed.	Not listed.	Not listed.	Not listed.
Propane	Not listed.	Not listed.	Not listed.	Not listed.

State Regulations

California Proposition 65:

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

Global Inventories

Ingredient	Canada DSL/NDL	TSCA USA
Isobutane	DSL	Yes.
Propane	DSL	Yes.

HMIS - Hazardous Materials Identification System

Health - 1 Flammability - 4 Physical Hazard - 0 PPE ☑ B

NFPA - National Fire Protection Association:

Health - 1 Fire - 4 Reactivity - 0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

WHMIS Classification(s):

Class A - Compressed Gas

Class B5 - Flammable Aerosol

Class D2B - Skin/Eye Irritant

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

OSHA (O) Occupational Safety and Health Administration.

ACGIH (G) American Conference of Governmental Industrial Hygienists.

A1 - Confirmed human carcinogen.

A2 - Suspected human carcinogen.

A3 - Animal carcinogen.

A4 - Not classifiable as a human carcinogen.

A5 - Not suspected as a human carcinogen.

IARC (I) International Agency for Research on Cancer.

1 - The agent (mixture) is carcinogenic to humans.

2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.

3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.

4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N) National Toxicology Program.

1 - Known to be carcinogens.

2 - Reasonably anticipated to be carcinogens.

16. Other information

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hazardous