

1. Product and Company Identification

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Product Name RXSOL-19-1527-050
Product Type Sodium Nitrate

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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CAS #	Component	Percent
7732-18-5	Water	
7631-99-4	Sodium nitrate	

Component Information/Information on Non-Hazardous Components

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication)

3. Hazards Identification

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Emergency Overview This product is a clear, colorless liquid. This product is an oxidizer. This product is irritating to the eyes and skin. Inhalation of sprays of this product has potential for moderate irritation of mucous membranes. This product may react with combustible materials and cause ignition.

Potential Health Effects: Eyes Contact with the eyes can cause moderate irritation. Symptoms may include discomfort or pain and redness. Severe exposures can result in swelling of the conjunctiva along with tissue damage.

Potential Health Effects: Skin This product is moderately irritating to the skin and other contaminated tissue. Depending on the duration of contact, symptoms may include reddening, discomfort, irritation, and possible tissue damage. Prolonged and/or repeated skin contact with this product may result in irritation/dermatitis. No components in this product are known to be absorbed through the skin.

Potential Health Effects: Ingestion Ingestion of this product can be harmful or fatal. Immediately upon contact, this product will cause irritation and burning of the mouth, throat, esophagus, and other tissues of the digestive system. Overexposure symptoms include: nausea, abdominal pain, and diarrhea. Severe ingestion overexposures can result in convulsions and collapse. The nitrate component of this product can affect the oxygen transport system of the blood. Severe ingestion exposures can be fatal. Repeated ingestion of small amounts of this product can cause weakness, depression, headaches, and mental impairment.

Potential Health Effects: Inhalation Inhalation of vapors, mists, or sprays of this product may irritate the nose, throat, and lungs. Symptoms may include: sore throat and difficulty breathing. Most symptoms are alleviated, when the overexposure ends.

HMIS Ratings: Health: 2 Fire: 0 Physical Hazard: 0 Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

4. First Aid Measures

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First Aid: Eyes In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. Have contact lenses removed, if possible, and "roll" their eyes. Seek immediate medical attention.

First Aid: Skin Immediately take off all contaminated clothing. For skin contact, flush with large amounts of water. If irritation persists, seek medical attention.

First Aid: Ingestion	Do not induce vomiting. Call a physician immediately.
First Aid: Inhalation	Move person to non-contaminated air. Call a physician if symptoms develop or persist.
First Aid: Notes to Physician	Provide general supportive measures and treat symptomatically.

5. Fire-fighting Measures

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Flash Point:	Not Flammable
Method Used:	Not Applicable
Upper Flammable Limit (UFL):	Not Applicable
Lower Flammable Limit (LFL):	Not Applicable
Auto Ignition:	Not Available
Flammability Classification:	Not Applicable
Rate of Burning:	Not Applicable
General Fire Hazards	This product is an aqueous mixture, which will not burn. If evaporated to dryness, the solid residue may pose a slight hazard. The product is an oxidizing agent, which may cause spontaneous ignition of combustible materials.
Hazardous Combustion Products	Decomposition of this product may produce acrid vapors, sodium compounds, and oxides of nitrogen.
Extinguishing Media	Use any media suitable for the surrounding fires.
Fire Fighting Equipment/Instructions	Fire fighters should wear full-face, self-contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling any combustion products.
NFPA Ratings:	Health: 2 Fire: 0 Reactivity:
Hazard Scale:	0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

6. Accidental Release Measures

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Containment Procedures	Stop the flow of material, if this is without risk. Wear appropriate protective equipment and clothing during clean-up. Contain and collect discharged material and dike the spilled material where possible. Prevent entry into sewers, drains, underground or confined spaces, intakes and waterways. Avoid contact with combustible materials.
Clean-Up Procedures	Absorb spill with inert material. Shovel material into appropriate container for disposal.
Evacuation Procedures	Isolate area. Keep unnecessary personnel away.
Special Procedures	Follow all Local, State, Federal and Provincial regulations for disposal.

7. Handling and Storage

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Handling Procedures	Do not get this material in your eyes, on your skin, or on your clothing. Avoid breathing vapors or mists of this product. Wash hands after handling. Do not eat, drink or use tobacco products when handling this material. Use this product with adequate ventilation. Wash work clothes frequently. See Section 8 for appropriate protective clothing, equipment and air monitoring procedures.
Storage Procedures	Open containers slowly, on a stable surface. Containers of this product must be properly labeled. Empty containers must be labeled as liquid or vapors. Empty containers should be handled with care. Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Do not store with incompatible materials (see SECTION 10: Stability and Reactivity). Material should be stored in secondary containers, if appropriate. Keep container tightly closed when not in use. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged.

8. Exposure controls and personal protection

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A: Component Exposure Limits	ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.
Engineering Controls	Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.
PERSONAL PROTECTIVE EQUIPMENT	
Eyes/Face	Wear safety glasses; chemical goggles (if splashing is possible).
Skin	Use impervious gloves. Use of an impervious apron is recommended.
Respiratory	Respiratory protection; not normally required for ambient air concentrations not exceeding the Occupational Exposure Limit. If respiratory protection is required, wear a NIOSH/MSHA approved self-contained breathing apparatus with full-face positive-pressure mode.
General	Eyewash fountains and emergency showers are required.

9. Physical and chemical properties

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Appearance:	Characteristic
Odor:	Odorless
Physical State:	Powder
pH:	~9
Vapor Pressure:	18 mm Hg @ 20°C (68 °C)
Vapor Density:	>1 (air=1)
Boiling Point:	~100°C (212°C)
Melting Point:	~0°C (32°F)
Solubility (H2O)	Soluble
Specific Gravity:	1.30 @ 4°C (39.2°F), water=1

10. Stability and reactivity

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Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Avoid exposure to extreme temperatures, contact with incompatible chemicals, and all contact with combustible material.
Incompatibility	This product can act to initiate and sustain the combustion of combustible materials. This product is incompatible with oxidizing materials. Reacts violently with reducing agents.
Hazardous Decomposition	Sodium and nitrogen oxides.
Hazardous Polymerization	Will not occur.

11. Toxicological information

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Acute and Chronic Toxicity	
A: General Product Information	This product is moderately irritating to contaminated tissue.
B: Component Analysis - LD50/LC50	Sodium nitrate (7631-99-4)
Carcinogenicity	
A: General Product Information	No carcinogenicity data available for this product.
B: Component Carcinogenicity	None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

12. Ecological information

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Ecotoxicity	
A: General Product Information	Sodium Nitrate: 6650 ppm/ 96 hours/ Mosquito Fish/ TLm/ turbid water 10,000 ppm/ 96 hours/ bluegill/ TLm 11,060 ppm/ 96 hours/ stickleback/ TLm/ tap water
B: Component Analysis - Ecotoxicity - Aquatic Toxicity	No ecotoxicity data are available for this product's components.
Environmental Fate	Based on the physical properties of this product, significant environmental persistence and bioaccumulation would not be expected.

13. Disposal considerations

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US EPA Waste Number & Descriptions	
A: General Product Information	Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous waste. As packaged this product is a D001 ignitable waste [40 CFR 261.21(a)(4)].
B: Component Waste Numbers	No EPA Waste Numbers are applicable for this product's components.
Disposal Instructions	Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

14. Transport information

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US DOT Information

Shipping Name: Sodium Nitrate Solution
UN/NA #: UN1498 Hazard Class: 5.1 Packing Group: III
Required Label(s): Oxidizer

Canada Transportation of Dangerous Goods Information

Shipping Name: Sodium Nitrate Solution
UN/NA #: UN1498 Hazard Class: 5.1 Packing Group: III
Required Label(s): Oxidizer

15. Regulatory information

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US Federal Regulations

A: General Product Information All components are on the U.S. EPA TSCA Inventory List.
B: Component Analysis None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 or CERCLA (40 CFR 302.4).
C: Federal Insecticide, Fungicide, and Rodenticide Act No information is available.
SARA 311/312: Acute Health Yes Chronic Health No Fire No Pressure No Reactive Yes
State Regulations
A: General Product Information Other state regulations may apply. Check individual state requirements.
B: Component Analysis - State The following components appear on one or more of the following state hazardous substances lists:

Component	CAS
Sodium nitrate	7631-99-4

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:
Component

Component	CAS #
Sodium nitrate	7631-99-4

Additional Regulatory Information

A: General Product Information
No additional information available.

Component	CAS
Water	732-18-5
Sodium nitrate	7631-99-4

16. Other information

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