

## 1. Product and Company Identification

www.rxmarine.com

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

### Company Details:

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

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CAS #	Component	Percent
7631-99-4	Sodium Nitrate	95 - 100

### 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 mists or sprays of this product has potential for moderate irritation of mucous membranes. This product may react with combustible materials to cause ignition.

### Potential Health Effects: Eyes

Contact with the eyes can cause moderate irritation. Symptoms may include discomfort or pain and redness. Severe overexposure 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 will include reddening, discomfort, irritation, and possible tissue damage. Prolonged and/or repeated skin contact with this product may cause 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 burns of the mouth, throat, esophagus, and other tissues of the digestive system. Overexposure symptoms include: nausea, abdominal pain, vomiting, and diarrhea. Severe ingestion overexposures can result in convulsions and collapse. The nitrate component of this product may damage the oxygen transport system of the blood. Severe ingestion exposures can be fatal. Repeated ingestion of small amounts of this product may 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: sneezing, coughing 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 contaminated individual "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, get 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 fire hazard. This 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 the discharged material and dike the spilled material where possible. Prevent entry into sewers, drains, underground or confined spaces, water 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 thoroughly after handling. Do not eat, drink or use tobacco products when handling this material. Use this product with adequate ventilation. Launder work clothes frequently. See Section 8 for appropriate protective clothing, equipment and air monitoring procedures.

Open containers slowly, on a stable surface. Containers of this product must be properly labeled. Empty containers may contain residual liquid or

## Storage Procedures

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. Store away from incompatible materials (see SECTION 10: Stability and Reactivity). Material should be stored in secondary containers, or in a diked area, as 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. When respiratory protection is required, wear a NIOSH/MSHA approved self-contained breathing apparatus with full-face piece operated in a 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:

~7

### 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 materials.

### Incompatibility

This product can act to initiate and sustain the combustion of combustible materials. This product is incompatible with water-reactive materials.

### Hazardous Decomposition

Reacts violently with reducing agents.

### Hazardous Polymerization

Sodium and nitrogen oxides.

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 wastes. 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 (40 CFR 372.65), 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	CA	MA	MN	NJ	PA	RI
Sodium Nitrate	7631-99-4	No	Yes	No	Yes	Yes	Yes

Component Analysis - WHMIS IDL

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

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Component

Component	CAS	Minimum Concentration
Sodium nitrate	7631-99-4	1 % (English Item 1452, French Item 1211)

Additional Regulatory Information

A: General Product Information

No additional information available.

Component	CAS	TSCA	DSL	NDSL	EINECS	AUST	MITI	PHIL	KOREA	ELINCS	CHINA
Water	732-18-5	Yes	Yes	No	Yes	Yes	Yes	No	Yes	No	Yes
Sodium Nitrate	7631-99-4	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No

## 16. Other information

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