Material Safety Data Sheet

Sodium Nitrate PURE (RXSOL-19-1527-050)

1. Product and Company Identifaction

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

Company Details:

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

Stock Point : Barka Muscat, Fujairah, Mumbai, Gandhidham, Vizag, Chennai, Kolkata, Canada

Phone	+91 22 27815540 / 41 / 42
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2. Composition / informationon ingredients

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

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

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

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

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

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 vapors. Empty containers should be handled with care.
Storage Procedures	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

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

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

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. Reacts violently with reducing agents.
Hazardous Decomposition	Sodium and nitrogen oxides.
Hazardous Polymerization	Will not occur.

11. Toxicological information

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

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

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

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

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:
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

Disclaimer: Supplier gives no warranty of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser will make his own tests to determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental and/or consequential property damage arising out of the use of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Material Safety Data Sheet before handling product.