Material Safety Data Sheet

Potassium Nitrate Agricultural (RXSOL-94-1776-025)

1. Product and Company Identifaction

Product Name	**Potassium Nitrate**
Part Number	**RXSOL-19-1776-025**

Company Details:

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

Stock Point : Mumbai, Kandla, Kolkata, Chennai, Vizag, Surat, Furjairah, Muscat

Phone	+91 22 65113333 / 5555 / 9999
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	mail@rxmarine.com

2. Composition / informationon ingredients

Name of Substance	Cas Number	EC Num
Potassium Nitrate	7757-79-1	231-818

3. Hazards Identification

Signal Word	Warning
Hazard Statements	H272 May intensify fire; oxidizer.
Precautionary statements - prevention	P210 Keep away from heat. P221 Take any precaution to avoid mixing with combustibles.
Precautionary statements - response	IF exposed or concerned: Get medical attention/advice

4. First Aid Measures

Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention mmediately if symptoms occur.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
Inhalation:	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.
Ingestion:	Do not induce vomiting. Obtain medical attention. Most important symptoms/effects No information available. Notes to Physician Treat symptomatically
Most important symptoms/effects	No information available
Notes to Physician	Treat symptomatically

5. Fire-fighting Measures

Flammability of the Product	Not Flammable.
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Unsuitable Extinguishing Media No information available
Flash Point	Not applicable
AutoignitionTemperature	Not data available
Explosion Limits Uper	No data available
Explosion Limits Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available
Specific Hazards Arising from the Chemical	Oxidizer: Contact with combustible/organic material may cause fire. May ignite combustibles (wood paper, oil, clothing, etc.). Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition
Hazardous Combustion Products	Potassium oxides Nitrogen oxides (NOx)
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Further Information	Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental Release Measures

Small Spillage	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
Personal Protection	Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes and clothing.
Enviromental Precaution	Avoid release to the environment. See Section 12 for additional ecological information.
Methods and materials for containment and cleaning	Keep away from clothing and other combustible materials. Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep in suitable, closed containers for disposal. Avoid dust formation.

7. Handling and Storage

Handling	Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Keep away from clothing and other combustible materials. Avoid dust formation.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near combustible materials.
Hygiene measures	Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

8. Exposure controls and personal protection

Engineering Control	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	***Eye/face Protection*** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
	Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.
	Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
Exposure Limits	No Data Available.



Gloves



Suit

9. Physical and chemical properties

Form	Solide / Powder
Colour	White
Odour	Odourless
Odor Threshold	No Information Available
pH	6- 8 - 5% Solution
Melting Point	334 °C
Boiling Point	400°C @ 760 mmHg
Flash Point	Not Flammable
Evaporation Rate	Not aplicable
Flammability (solid, gas)	Not Applicable
Explosive limits	Upper : No Information available Lower : No Information available
Vapour pressure	No Information available
Vapour Density	No Information available
Secific Gravity	No Information available
Decomposition Temperature	>400 °C
Partition coefficient	No data available
Desity	2.1 @ 20 °C
Solubility	Soluble
Viscosity	Not Applicable
Molecular Formula	K N O3
Molecular Weight	101.1

10. Stability and reactivity

Recativity Hazard	Yes
Stability	Oxidizer: Contact with combustible/organic material may cause fire.

Possibility of hazardous reactions	Risk of explosion with: Cyanides, Sulphides, combustible substances, Fluorine, Potassium, acetates, oxidisable substances, phosphides, Organic Substances, Peroxides, Aluminium, antimony, charcoal, Titanium, Zinc, Powdered metals, arsenic, Boron, Germanium, nitrides, magnesium, sodium thiosulphate, phosphorus, strong reducing agents, sulfur, sugars.
Conditions to avoid	Avoid dust formation. Incompatible products. Excess heat
Incompatible materials	Strong reducing agents, Strong acids, Combustible material
Hazardous Decomposition Products	Potassium oxides, Nitrogen oxides (NOx)
Hazardous Polymerization	Hazardous polymerization does not occur. Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity	LD50 Rat: 3,015 mg/kg
Acute dermal Toxi	This information is not available
Skin corrosion	Skin irritation.
Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of ingestion, of inhalation (lung irritant).
Special Remarks on Chronic Effects on Humans	May cause adverse reproductive effects based on animal test data. May affect genetic material (mutagenic)
Further information After absorption:	After absorption of large quantities: Methaemoglobinaemia with headache, cardiac arrhythmia, drop in blood pressure, dyspnoea, and spasms, key symptom: cyanosis (blue colouration of the blood).

12. Ecological information

Toxicity to Fish	LC50 Poecilia reticulata (guppy): 191 mg/l; 96 h (ECOTOX Database)
COD and BOD 5	Not Available
Products of Biodegradation:	No data available
Mobility in soil	Will likely be mobile in the environment due to its water solubility.
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other adverse effects	Additional ecological information Discharge into the environment must be avoided.

13. Disposal considerations

Waste treatment Method	Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself

14. Transport information

DOT

UN Number	UN1486
Proper shipping name	Potassium Nitrate

Hazard Class	5.1
Packing group	III

TDG

UN Number	UN1486
Proper shipping name	Potassium Nitrate
Hazard Class	5.1
Packing group	III

IATA

UN Number	UN1486
Proper shipping name	Potassium Nitrate
Hazard Class	5.1
Packing group	III

IMDG/IMO

UN Number	UN1486
Proper shipping name	Potassium Nitrate
Hazard Class	5.1
Packing group	III

15. Regulatory information

Fedral and State Regulation	Connecticut hazardous material survey.: Potassium nitrate Rhode Island RTK hazardous substances: Potassium nitrate Pennsylvania RTK: Potassium nitrate Massachusetts RTK: Potassium nitrate TSCA 8(b) inventory: Potassium nitrate
Other Regulation	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.
WHMIS (Canada)	CLASS - C. Oxydizing Material
DSCL (EEC)	No data available

HMIS	
Health Hazard	: 2
Fire Hazard	: 0
Reactivity	: 0
Personal Protection	: E

Fire :

Health Hazard	: 2
Fire Hazard	: 0
Reactivity	: 0
Specific Hazard	: ..

16. Other information

Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if **RX Marine International** has been advised of the possibility of such damages.