

1. Product and Company Identification

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Product Name

Potassium Nitrate

Part Number

RXSOL-19-1776-050

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 / Information on ingredients

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Name of Substance	Cas Number
Potassium Nitrate	7757-79-1

3. Hazards Identification

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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

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

5. Fire-fighting Measures

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Flammability of the Product	Not Flammable.
Suitable extinguishing media	Use extinguishing measures that are appropriate to environment. Unsuitable Extinguishing Media No information applicable
Flash Point	Not applicable
Autoignition Temperature	Not data available
Explosion Limits Upper	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 (e.g. paper, oil, clothing, etc.). Thermal decomposition can lead to the formation of toxic gases.
Hazardous Combustion Products	Keep product and empty container away from heat and flame. Potassium oxides Nitrogen oxides (NO _x)
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus (or equivalent) and full protective gear.
Further Information	Suppress (knock down) gases/vapours/mists with a water spray from contaminating surface water or the ground water system.

6. Accidental Release Measures

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Small Spillage	Use appropriate tools to put the spilled solid in a convenient container for disposal.
Personal Protection	Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.
Environmental Precaution	Avoid release to the environment. See Section 12 for additional information.
Methods and materials for containment and cleaning	Keep away from clothing and other combustible materials. Collect in suitable container for disposal. Keep in suitable container for disposal. Keep in suitable container for disposal.

7. Handling and Storage

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Handling	Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Keep away from heat and flame. Avoid dust formation.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated area. Keep away from heat and flame. Keep away from combustible materials.
Hygiene measures	Immediately change contaminated clothing. Apply preventive measures after working with substance.

8. Exposure controls and personal protection

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Engineering Control	Use process enclosures, local exhaust ventilation, or other engineering controls to keep exposure levels below recommended exposure limits. If user operates in poorly ventilated areas, use local exhaust ventilation to keep exposure to airborne contaminants below recommended exposure limits.
Personal Protection	Eye/face Protection Wear appropriate protective eye and face protection equipment described by OSHA's eye and face protection regulation 29 CFR 1910.133 or Standard EN166. Skin and body protection Wear appropriate protective gloves.

Hygiene Measures
Exposure Limits

Respiratory Protection Follow the OSHA respirator requirements and the European Standard EN 149. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or if irritation occurs.
Handle in accordance with good industrial hygiene and safety practices.
No Data Available.



Gloves Suit

9. Physical and chemical properties

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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 applicable
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

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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 Peroxides, Aluminium, antimony, charcoal, Titanium, Zinc, Powdered metals, arsenic, Boron, Germanium, nitrides, 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

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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 colouration of the blood).

12. Ecological information

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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

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Waste treatment Method	Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original mixing with other waste. Handle uncleaned containers like the product itself
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14. Transport information

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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

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Federal and State Regulation

Connecticut hazardous material survey.: Potassium nitrate
Potassium nitrate Pennsylvania RTK: Potassium nitrate
8(b) inventory: Potassium nitrate

Other Regulation

OSHA: Hazardous by definition of Hazard Communication
This product is on the European Inventory of Existing Chemical Substances (EINECS)

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

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Other Information

The information above is believed to be accurate and is available to us. However, we make no warranty of accuracy, implied, with respect to such information, and we do not should make their own investigations to determine suitability for particular purposes. In no event shall we be liable for any damages, for lost profits or any special, indirect, incidental, or consequential damages arising, even if **Rx Marine International** has been advised of the possibility of such damages.

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