Material Safety Data Sheet

Sodium Nitrite (RXSOL-19-1525-025)

1. Product and Company Identifaction

Product Name	Sodium Nitrite
Part Number	RXSOL-19-1525-025

Company Details:
RX MARINE INTERNATIONAL
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VASHI ,NEW BOMBAY 400703 INDIA

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2. Composition / informationon ingredients

Name of Substance	Cas Number	EC Number	Molecular Formula	Molar Mass
Sodium Nitrite	7632-00-0	231-555-9	NaNO?	69.00 g/mol

3. Hazards Identification

Signal Word	Danger
Hazard Statements	H272 May intensify fire; oxidizer. H301 Toxic if swallowed. H319 Causes serious eye irritation. H400 Very toxic to aquatic life.
Precautionary statements	Prevention P273 Avoid release to the environment. Response P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician
Labelling (67/548/EEC or 1999/45/EC)	Symbol(s) Oxidizing solid, Category 3, H272 Acute toxicity, Category 3, H301 Eye irritation, Category 2, H319 Acute aquatic toxicity, Category 1, H400

4. First Aid Measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact	After contact with skin, wash immediately with plenty of water. Gently and thoroughly Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
Inhalation:	Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.
Ingestion:	Do not induce vomiting. Call a physician or Poison Control Center immediately

5. Fire-fighting Measures

Flammability	Non-flammable.
Flash Point	Not applicable.
Suitable extinguishing media	No Information Available.
Autoignition Temperature	510 °C / 950 °F
Specific Hazards Arising from the Chemical	Oxidizer: Contact with combustible/organic material may cause fire. May ignite combustibles (wood paper, oil, clothing, etc.). Do not allow run-off from firefighting to enter drains or watercourses.
Hazardous combustion products	Nitrogen oxides (NOx) Sodium oxides
Protective Equipment	Use personal protective equipment.
Advice for firefighters	Wear self-contained breathing apparatus for fire fighting if necessary

6. Accidental Release Measures

Small Spillage	Use appropriate tools to put the spilt solid in a convenient waste disposal container.
Personal Protection	Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Keep people away from and upwind of spill/leak
Environmental Precaution	Do not flush into surface water or sanitary sewer system. Do not allow the material to contaminate groundwater system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained
Methods and materials for containment and cleaning	Keep combustibles (wood, paper, oil, etc) away from spilled material. Sweep up or vacuum up spillage and collect in a suitable container for disposal. Avoid dust formation. Keep in suitable, closed containers for disposal.

7. Handling and Storage

Handling	Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not ingest. Keep away from clothing and other combustible materials.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near combustible materials. Store under an inert atmosphere.
Advice on general occupational hygiene	Change contaminated clothing. Preventive skin protection recommended. Wash hands 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 Skin 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.
Exposure Limits:	Not available.
Other Protection Measure	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product.



Gloves



Suit

9. Physical and chemical properties

Form	Powder Solid
Colour	White to yellow
Odour	Odourless
Odour Threshold	Not Applicable
pH	8- 9 Aqueous solution at 20 °C
Boiling Point	320 °C / 608 °F
Flash Point	No information available
Melting Point	271 °C / 519.8 °F
Density	2.1 g/cm3 at 20 °C
Evaporation rate	No Data Available
Flammability (solid, gas)	No Data Available
Explosive limits	Not Applicable
Vapour pressure	Not Applicable
Vapour Density	Not Applicable
Relative density Information	Not Determine
Solubility in Water	820 g/L (20°C)
Oxidising properties	Oxidiser

10. Stability and reactivity

Reactivity	Yes
Stability	Product is stable.Oxidizer: Contact with combustible/organic material may cause a fire.
Possibility of hazardous reactions	combustible substances, Aluminium, Sulphides, Cyanides, potassium cyanide, urea, hydrazine and derivatives, oxidisable substances, unsaturated hydrocarbons, sodium amide, phenol, Ethylene oxide, strong reducing agents, Ammonium salts, amides, hydrochloric acid, Potassium hexacyanoferrate (II)
Conditions to avoid	Incompatible products. Excess heat. Combustible material. Avoid dust formation. Exposure to moist air or water.
Incompatible materials	Acids, Amines, Reducing agents, Oxidizing agents, Combustible material, Strong reducing agents
Hazardous Decomposition products	Nitrogen oxides (NOx), Sodium oxides

11. Toxicological information

Acute toxicity	LD50 Rat: 180 mg/kg
Acute inhalation toxicity	LC50 Rat: 5.5 mg/l; 4 h ; dust/mist (RTECS)
Skin corrosion/irritation	No skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	No Data Available
Specific target organ toxicity	Single exposure. This information is not available.
Aspiration hazard	No Data Available
Other information	Acute Potential Health Effects: Skin: Causes skin irritation. May be absorbed through the skin. Eyes: Causes eye irritation. May cause conjunctivitis. May cause permanent corneal opacification. Ingestion: Harmful if swallowed. Causes gastrointestinal tract irritation with nausea. May affect behaviour, brain, nervous system (change in motor activity, muscular incoordination, loss of reflexes, convulsions, coma), blood (methemoglobinemia), liver, metabolism, cardiovascular system (decrease in blood pressure, rapid pulse) and urinary system. May also cause weakness.

12. Ecological information

Toxicity	Toxicity to fish : flow-through test LC50 Oncorhynchus mykiss (rainbow trout): 0.54 - 26.3 mg/l; 96 h
A process of degradability	Possibly hazardous short term degradation products is not likely. However, long-term degradation products may arise. Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.
Bioaccumulative potential	No Information Available.
Mobility in soil	No data Available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other adverse effects	Discharge into the environment must be avoided.

13. Disposal considerations

Waste Treatment Method	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
Remarks	Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.
Waste Disposal	Waste should be disposed of in according to local rule and regulation.

14. Transport information

DOT

UN Number	UN1500
Proper shipping name	SODIUM NITRITE
Hazard Class	5.1
Subsidiary Hazard Class	6.1
Packing group	III

TDG

UN Number	UN1500

Proper shipping name	SODIUM NITRITE
Hazard Class	5.1
Subsidiary Hazard Class	6.1
Packing group	III

IATA

UN Number	UN1500
Proper shipping name	SODIUM NITRITE
Hazard Class	5.1
Subsidiary Hazard Class	6.1
Packing group	III

IMDG

UN Number	UN1500
Proper shipping name	SODIUM NITRITE
Hazard Class	5.1
Subsidiary Hazard Class	6.1
Packing group	III

15. Regulatory information

FEDRAL & Other Regulation	USA : Sodium nitrite Pennsylvania RTK: Sodium nitrite Massachusetts RTK: Sodium nitrite New Jersey: Sodium nitrite California Director's List of Hazardous Substances: Sodium nitrite TSCA 8(b) inventory: Sodium nitrite TSCA 12(b) one time export: Sodium nitrite SARA 313 toxic chemical notification and release reporting: Sodium nitrite CERCLA: Hazardous substances.: Sodium nitrite: 100 lbs. (45.36 kg)
Chemical safety assessment	For this product a chemical safety assessment was not carried out.
DSCL (EEC)	Full text of H-Statements referred to under sections 2 and 3. H272 May intensify fire; oxidizer. H301 Toxic if swallowed. H319 Causes serious eye irritation. H400 Very toxic to aquatic life.

HMIS

Health Hazard	: 3
Fire Hazard	: 0
Reactivity	: 0
Personal Protection	: C

Fire :

Health Hazard	: 3
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.