Material Safety Data Sheet

Sodium Bromate (RXSOL-19-1760-025)

1. Product and Company Identifaction

Product Name	Sodium Bromate
Part Number	RXSOL-19-1760-025

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

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

Phone	+91 22 65113333 / 5555 / 9999
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	123@rxmarine.com
Website	www.rxmarine.com

2. Composition / informationon ingredients

Name of Substance	Cas Number	EC Number	Molecular Formula	Molar Mass
Sodium Bromate	7789-38-0	232-160-4	BrNaO3	150.89 g/mol

3. Hazards Identification

Signal Word	Danger
Hazard Statements	H271 May cause fire or explosion; strong oxidiser. H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation
Precautionary statements	P210 Keep away from heat/sparks/open flames/hot surfaces - No smoking. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Labelling (67/548/EEC or 1999/45/EC)	Symbol(s) O : Oxidising . Xn :Harmful R-phrase(s) : 9-22-36/38 : Explosive when mixed with combustible material. Harmful if swallowed. Irritating to eyes and skin. S-phrase(s) : 22-26 : Do not breathe dust. In case of contact with eyes, rinse -immediately with plenty of water and seek medical advice.

4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.
Inhalation:	If inhaled, remove to fresh air. Allow the victim to rest in a well ventilated area. Seek immediate medical attention. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation.
Ingestion:	Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

5. Fire-fighting Measures

Flammability	Non-flammable.
Flash Point	Not applicable.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Hazardous combustion products	Hydrogen bromide gas, Sodium oxides
Protective Equipment	Use personal protective equipment.
Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary

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. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensureadequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.For personal protection see section 8.
Enviromental Precaution	Do not let product enter drains.
Methods and materials for containment and cleaning	Sweep up and shovel.\'20 Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

7. Handling and Storage

Handling	Keep away from heat. Keep away from sources of ignition. Keep away from combustible material Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes
Storage	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Strongly oxidizing hazardous materials
Advice on general occupational hygiene	Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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 : Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin protection : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
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. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product



Gloves



Suit

9. Physical and chemical properties

Form	Powder finecrystalline
Colour	Colourless
Odour	Odourless
Odour Threshold	Not Applicabel
pH	6- 9 Aqueous solution at 20 °C
Boiling Point	Not Applicable
Flash Point	does not flash
Melting Point	381 °C
Specific Gravity	3.34 (Water = 1)
Evaporation rate	No Data Available
Flammability (solid, gas)	No Data Availiable
Explosive limits	Not Applicable
Vapour pressure	Not Applicable
Vapour Density	Not Applicable
Relative density Information	Not Determine
Solubility in Water	Soluble in Cold Water
Oxidising properties	Oxidiser

10. Stability and reactivity

Reactivity	None
Stability	Product is stable.
Possibility of hazardous reactions	No known hazardous reactions.
Conditions to avoid	No data Available
Incompatible materials	Strong reducing agents, Powdered metals, Alcohols, Strong acids.
Hazardous combustion products	Hazardous decomposition products formed under fire conditions. - Hydrogen bromide gas, Sodium oxides Other decomposition products - No data available In the event of fire: see section 5

11. Toxicological information

Acute toxicity	LD50 Intraperitoneal - Mouse - 140 mg/kg(Sodium bromate)
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	No Data Available
Specific target organ toxicity	Shall not be classified as a specific target organ toxicant.
Aspiration hazard	No Data Available
Other information	Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

12. Ecological information

Toxicity	Shall not be classified as acutely toxic.
Process of degradability	The methods for determining the biological degradability are not applicable to inorganic substances.
Bioaccumulative potential	Partition coefficient: n-octanol/water : not applicable
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	Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.
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

ADR / RID

UN Number	1494
Proper shipping name	Sodium Bromate
Class	5.1
Packing group	II
Environmental Hazard	No
Special Precaution for user	No Data Available

International Maritime Dangerous Goods Code (IMDG)

UN Number	1494
Proper shipping name	Sodium Bromate
Class	5.1
Packing group	II
Environmental Hazard	No
Special Precaution for user	No Data Available

International Civil Aviation Organization (ICAO-IATA/DGR)

UN Number	1494
Proper shipping name	Sodium Bromate
Class	5.1
Packing group	II
Environmental Hazard	No
Special Precaution for user	No Data Available

15. Regulatory information

Fedral and State Regulation	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
Chemical safety assessment	For this product a chemical safety assessment was not carried out
Chemical Safety Assessment	No Chemical Safety Assessment has been carried out for this substance.

HMIS

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

National	Fire Protection Association
Health Hazard	: 2
Fire Hazard	: 0
Reactivity	: 0
Specific Hazard	:

16. Other information

Full text of H-Statements referred to under sections and 3.	H272 May intensify fire; oxidizer. H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation
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.