# Material Safety Data Sheet

**SODIUM BROMIDE Solution** (RXSOL-81-1617-050)

## 1. Product and Company Identifaction

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|---|---|
| Product Name | Sodium Bromide Solution |
| Part Number | RXSOL-19-1617-050 |

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

Stock Point : Mumbai, Gandhidham, Chennai, Visakhapatnam, Kolkata, Fujairah, Sohar - Muscat

| | |
|---|---|
| Phone | +91 22 27815541 / 42 |
| 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 bromide Solution | 7647-15-6 | 231-599-9 | BrNa | 102.89 g/mol |

## 3. Hazards Identification

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| Signal Word | Irritant |
| Hazard Statements | Slightly hazardous in case of skin contact (irritant). |
| Precautionary statements - prevention | CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition. |
| Precautionary statements - response | This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) |

## 4. First Aid Measures

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| Eye Contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention |
| Skin Contact | Wash off immediately with plenty of water 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.. |
| Notes to Physician | Treat symptomatically |

## 5. Fire-fighting Measures

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| Flammability | Non-flammable. |
| Flash Point | Not applicable. |
| Suitable extinguishing media | No information available |

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| Hazardous combustion products | Hydrogen halides Sodium oxides |
| Protective Equipment | Use personal protective equipment. |
| Specific Hazards Arising from the Chemical | Non-combustible. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. |

## 6. Accidental Release Measures

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| Small Spillage | Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements |
| Personal Protection | Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area. Observe emergency procedures.Consult an expert. Advice for emergency responders: Protective equipment see section 8. |
| Enviromental Precaution | Do not let product enter drains. |
| Methods and materials for containment and cleaning | Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts |

## 7. Handling and Storage

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| Handling | Do not ingest. Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids. |
| Storage | Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 25°C (77°F). Packing : Only packagings which are approved (e.g. acc. to ADR) may be used. |
| Advice on general occupational hygiene | Advice on safe handling Observe label precautions. Change contaminated clothing. Wash hands 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 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 exposure limits are exceeded or if irritation or other symptoms are experienced. |
| Other Protection Measure | Handle in accordance with good industrial hygiene and safety practice. |



Gloves



Suit

## 9. Physical and chemical properties

SODIUM BROMIDE Liquid Solution
TestResults

Molecular Formula : NaBr
Sodium Bromide % by wt. : 40 - 46 %
Chloride % by wt. (Max.) : 0.05%
Bromates % by wt. (Max.) : 0.001%
Heavy metals % by wt. (Max.) : 0.001%

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| Iron % by wt. (Max.) | : 0.008% |
| Sulphates % by wt. (Max.) | : 0.06% |
| Crystallization Temp | : -29 degree C |
| Flash Point | : None |
| Boiling Point | : 100 - 112 degree C |
| pH ( 1:10 ) | : 6.5 to 7.5 |
| Density | : 1.51 |

## 10. Stability and reactivity

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| Recativity | None known, based on information available |
| Stability | Product is stable. |
| Possibility of hazardous reactions | No known hazardous reactions. |
| Conditions to avoid | To avoid thermal decomposition, do not overheat. Incompatible products. Exposure to moist air or water. |
| Incompatible materials | Strong oxidizing agents, Strong acids, Halogens |
| Hazardous combustion products | Hydrogen halides, Sodium oxides |
| Hazardous Polymerization | Hazardous polymerization does not occur. |

## 11. Toxicological information

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| Acute toxicity | LD50 Oral<br>LD50 = 3500 mg/kg ( Rat ) | LD50 Dermal<br>>2000 mg/kg ( Rabbit ) | LC50 Inhal.<br>Not listed. |
| Skin corrosion/irritation | Corrosion : None. Mild Erritation | | |
| Toxic Effects on Humans | Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant). | | |
| Special Remarks on Chronic Effects on Humans | May cause adverse reproductive effects (male and female effects on fertility and effects on newborns and fetotoxicity) based on animal data Human: passes the placental barrier, detected in maternal milk. | | |
| Special Remarks on other Toxic Effects on Humans: | Acute Potential Health Effects: Skin: May cause mild skin irritation. Eyes: Causes eye irritation. Inhalation: May cause respiratory tract irritation. Ingestion: May cause gastrointestinal tract irritation with nausea and vomiting, abdominal pain, constipation. Bromide poisoning following acute ingestion is more rare and may affect the central nervous system (CNS depression - somnolence, confusion, ataxia, coma and other symptoms similar to chronic ingestion), cardiovascular system (hypotension, tachycardia), kidneys (acute renal failure, urinary incontinence), and respiration (acute respiratory distress syndrome). It may also cause eye disturbances such as mydriasis and nystagmus, disturbances of apparent color of objects, blurring or indistinctness of vision, apparent movement or wiggling and change in apparent size of objects, large pupils, subnormal reaction to light, diplopia, and photophobia. | | |

## 12. Ecological information

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| Eco Toxicity | Not Available |
| COD and BOD 5 | Not Available |
| Products of Biodegradation: | Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. |
| 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 | 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 containers. No mixing with other waste. Handle uncleaned containers like the product itself |

## 14. Transport information

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| DOT | Not Regulated |
| TDG | Not Regulated |
| IATA | Not Regulated |
| IMDG/IMO | Not Regulated |

## 15. Regulatory information

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| Fedral and State Regulation | TSCA 8(b) inventory: Sodium bromide |
| Other Regulation | Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances. |
| WHMIS (Canada) | Not controlled under WHMIS (Canada).. |
| DSCL (EEC) | R36- Irritating to eyes. S2- Keep out of the reach of children. S24/25- Avoid contact with skin and eyes. S46- If swallowed, seek medical advice immediately and show this container or label. |

HMIS

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

Fire :

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|---|---|
| Health Hazard | : 2 |
| Fire Hazard | : 0 |
| Reactivity | : 0 |
| Specific Hazard | : E |

## 16. Other information

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| 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. |