

1. Product and Company Identification

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Product Name SODIUM BROMIDE 48 Solution
Part Number RXSOL-81-1617-1001

Company Details:....

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
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2. Composition / Information on ingredients

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Component	CAS No	Weight %
Sodium bromide	7647-15-6	>95

3. Hazards Identification

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Classification	This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
Label elements	
Signal Word	Warning
Hazard Statements	May cause drowsiness or dizziness
	Suspected of damaging fertility. Suspected of damaging the unborn child
	May cause damage to organs through prolonged or repeated exposure
Precautionary Statements	Prevention
	Obtain special instructions before use
	Do not handle until all safety precautions have been read and understood
	Use personal protective equipment as required
	Do not breathe dust/fume/gas/mist/vapors/spray
	Use only outdoors or in a well-ventilated area
	Response
	IF exposed or concerned: Get medical attention/advice
	Inhalation
	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
	Storage

	Store locked up
	Store in a well-ventilated place. Keep container tightly closed
Hazards not otherwise classified (HNOC)	Disposal
	Dispose of contents/container to an approved waste disposal plant

4. First Aid Measures

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Description of first aid measures

General Advice	If symptoms persist, call a physician.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Most important symptoms and effects	None reasonably foreseeable
Notes to Physician	Treat symptomatically

5. Fire-fighting Measures

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Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media	No information available
Flash Point	No information available
Method	No information available
Autoignition Temperature	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard.
	In a fire or if heated, a pressure increase will occur and the container may burst, with the
	risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along
	the ground. Vapors may accumulate in low or confined areas or travel a considerable
	distance to a source of ignition and flash back.

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No information available

Explosion Limits

Upper

Lower

No data available

No data available

spray to keep fire-exposed containers cool. Promptly isolate the scene by removing all persons from the vicinity of the incident if

there is a fire. No action shall be taken involving any personal risk or without suitable

training. Move containers from fire area if this can be done without risk. Use water

spray to keep fire-exposed containers cool.

No information available

No information available

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.

Hydrogen halides. Sodium oxides.

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures

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Personal Precautions

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

Environmental Precautions

Do not flush into surface water or sanitary sewer system.

Methods for Containment and Clean Up

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

7. Handling and Storage

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Handling

Ensure adequate ventilation. Wear personal protective equipment/face protection. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.

Storage

Keep container tightly closed. Keep in a dry, cool and well-ventilated

place. Store under an inert atmosphere. Keep container tightly closed in a dry and well-ventilated place. Protect from moisture. Incompatible Materials. Strong oxidizing agents. Strong acids. Halogens.

8. Exposure controls and personal protection

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Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limit established by the region specific regulatory bodies.

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

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. 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.

Respiratory Protection

Particle filter

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

9. Physical and chemical properties

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Information on basic physical and chemical properties

Physical state

Powder Solid

Appearance

White

Odor

No information available

Odor Threshold

No information available

pH

5-8.8 5% aq. solution

Melting Point/Range

755 °C / 1391 °F

Boiling Point/Range

1390 °C / 2534 °F @ 760 mmHg

Flash Point

No information available

Evaporation Rate

Not applicable

Flammability (solid,gas)

No information available

Flammability or explosive limits

Upper

No data available

Lower

No data available

Vapor Pressure

No information available

Vapor Density

Not applicable

Specific Gravity

No information available

Solubility

905 g/L (20°C)

Partition coefficient; n-octanol/water

No data available

Autoignition Temperature

No information available

Decomposition Temperature

800 °C

Viscosity

Not applicable

Molecular Formula

Br Na

Molecular Weight

102.89

10. Stability and reactivity

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Reactive Hazard	None known, based on information available
Stability	Hygroscopic.
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 Decomposition Products	Hydrogen halides, Sodium oxides
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

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Acute toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium bromide	LD50 = 3500 mg/kg (Rat)	>2000 mg/kg (Rabbit)	Not listed

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Sodium bromide	7647-15-6	Not listed				

Mutagenic Effects Not mutagenic in AMES Test

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Central nervous system (CNS)

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects, both acute and delayed No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

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Ecotoxicity

Contains a substance which is: Very toxic to aquatic organisms. The product contains following substances which are hazardous for the environment.

Component	CAS No	Freshwater Algae	Microtox	Water Flea
Sodium bromide	EC50: 5800 - 24000 mg/L, LC50: > 1000 mg/L, 96h	-	-	EC50: 5700 - 10800 mg/L, 48h Static (Daphnia)

96h (Scenedesmus pannonicus)	static (Oncorhynchus mykiss)	magna)EC50: 5800 - 48000 mg/L, 48h (Daphnia magna)
	LC50: 24000 - 96000 mg/L,	
	96h flow-through (Oryzias latipes)	
	LC50: = 24000 mg/L, 96h	
	semi-static (Oryzias latipes)	
	LC50: 16000 - 24000 mg/L,	
	96h flow-through (Poecilia reticulata)	
	LC50: = 16000 mg/L, 96h	
	semi-static (Poecilia reticulata)	
	LC50: 0.054 - 0.081 mg/L,	
	96h flow-through	
	(Oncorhynchus mykiss)	
	LC50: > 1000 mg/L, 96h	
	static (Lepomis macrochirus)	
	LC50: 15614 - 17428 mg/L,	
	96h static (Pimephales promelas)	
Persistence and Degradability	Soluble in water	Persistence is unlikely based on information available.
Bioaccumulation/ Accumulation		No information available.
Mobility		Will likely be mobile in the environment due to its water solubility

13. Disposal considerations

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Waste Disposal Methods

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.

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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United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification	TSCA - EPA RegulatoryFlags						
Sodium bromide	7647-15-6	X	Active-Inactive	-						
TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)			ACTIVE	-						
TSCA 12(b) - Notices of Export			Not applicable							
International Inventories			Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea(KECL).							
Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Sodium bromide	7647-15-6	X	-	231-599-9	X	X	X	X	X	KE-31368

U.S. Federal Regulations

SARA 313	Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372			
SARA 311/312 Hazard Categories	Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.			
CWA (Clean Water Act)	Not applicable			
Clean Air Act	Not applicable			
OSHA - Occupational Safety and Health Administration	Not applicable			
CERCLA	This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.			
California Proposition 65	This product does not contain any Proposition 65 chemicals.			
U.S. State Right-to-Know Regulations	Not applicable			
U.S. Department of Transportation				
Reportable Quantity (RQ)	N			
DOT Marine Pollutant	N			
DOT Severe Marine Pollutant	N			
U.S. Department of Homeland Security	This product does not contain any DHS chemicals			
Other International Regulations				
Mexico - Grade	No information available			
Authorisation/Restrictions according to EU REACH	Not applicable			
Component	CAS No	REACH (1907/2006) - Annex XIV - Substances	REACH (1907/2006) - Annex XVII - Restrictions	REACH Regulation (EC1907/2006) article 59 -Candidate List of Substances of Very High Concern (SVHC)
Sodium bromide	7647-15-6	-	-	-

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic	Ozone Depletion	Restriction of
Sodium bromide	7647-15-6	-	-	-	-

		Pollutant	Potential	Hazardous Substances (RoHS)	
Sodium bromide	7647-15-6	Listed	Not applicable	Not applicable	Not applicable
Other International Regulations					
Component	CAS No	Seveso III Directive (2012/18/EC) -	Seveso III Directive (2012/18/EC) -	Rotterdam Convention (PIC)	Basel Convention(Hazardous Waste)
Sodium bromide	7647-15-6	Qualifying Quantities for Major Accident Notification Not applicable	Qualifying Quantities for Safety Report Requirements Not applicable	Not applicable	Not applicable

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.

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