

1. Product and Company Identification

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Product Name SODIUM BROMIDE 45 Solution

Part Number RXSOL-81-1617-1000

Company Details:....

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

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Website www.rxmarine.com

2. Composition / Information on ingredients

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Component	CAS No	Weight %
Sodium bromide	7647-15-6	>45

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

Hazard Statements

Warning

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

Disposal

Dispose of contents/container to an approved waste disposal plant

None identified

Hazards not otherwise classified (HNOC)

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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	distance to a source of ignition and flash back.
	No information available
Explosion Limits	
Upper	No data available
Lower	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.
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available
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.
Hazardous Combustion Products	Hydrogen halides. Sodium oxides.
Protective Equipment and Precautions for Firefighters	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 limits 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.

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.

Recommended Filter type

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 moisture 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	Not listed	Not listed	Not listed	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.
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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) 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)	magna)EC50: 5800 - 48000 mg/L,48h (Daphnia magna)
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		
					-	Active-Inactive		RegulatoryFlags		
Sodium bromide	7647-15-6		X			ACTIVE		-		
TSCA - Per 40 CFR 751, Regulation of Certain Chemical					Not applicable					
Substances & Mixtures, Under TSCA Section 6(h) (PBT)										
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 Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) 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
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			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) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention(Hazardous Waste)
Sodium bromide	7647-15-6	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

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Other Information

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