

1. Product and Company Identification

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Product Name Calcium Bromide Solution
Part Number RXSOL-34-3407-250

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

Stock Point : Mumbai, Gandhidham - Kandla, Chennai, Fujairah, Barka - Oman, Kolkata, Visakhapatnam, Nairobi Kenya

Phone +91 22 27815541 / 42
Fax +91 22 2781 1318 ::AOH :0091 9821214367
Email 123@rxmarine.com
Website www.rxmarine.com

2. Composition / Information on ingredients

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Name of Substance	Cas Number	Percentage	Molecular Formula
Calcium Bromide	7789-41-5	52 - 56%	CaBr2

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 may cause skin sensitization. This chemical is not considered hazardous by the 2010.1200)
Precautionary statements - response	

4. First Aid Measures

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Eye Contact	Rinse immediately with plenty of water, also under the eyelids. Keep eyes open while rinsing. Do not rub affected area. Obtain medical attention if irritation persists.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If irritation occurs, seek medical attention.
Inhalation:	Move to fresh air. If breathing is difficult, give oxygen if available. If breathing does not improve, seek medical attention.
Ingestion:	Do not induce vomiting. Obtain medical attention if symptoms occur.
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
Hazardous combustion products	Hydrogen halides Sodium oxides

Protective Equipment

Specific Hazards Arising from the Chemical

Use personal protective equipment.

Non-combustible. Thermal decomposition can lead to explosive vapors.

Keep product and empty container away from heat.

6. Accidental Release Measures

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Small Spillage

Use appropriate tools to put the spilled solid in a container. Avoid spreading water on the contaminated surface and follow local requirements.

Personal Protection

Advice for non-emergency personnel: Avoid inhaling vapors. Follow emergency procedures. Consult an expert. Advice section 8.

Environmental Precaution

Do not let product enter drains.

Methods and materials for containment and cleaning

Cover drains. Collect, bind, and pump off spills. Observe section 10. Take up dry. Dispose of properly. Clean up affected areas.

7. Handling and Storage

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Handling

Do not ingest. Do not breathe dust. Avoid contact with skin. Use sufficient ventilation, wear suitable respiratory equipment and show the container or the label. Keep away from heat.

Storage

Keep container tightly closed. Keep container in a cool place (77°F). Packing : Only packagings which are appropriate.

Advice on general occupational hygiene

Advice on safe handling. Observe label precautions when 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 exposure levels below recommended exposure limits. If user operates at levels above recommended exposure limits, use respirators to keep exposure to airborne contaminants below the exposure limit.

Personal Protection

Eye/face Protection : Wear appropriate protective equipment to comply with OSHA's eye and face protection regulations in 29 CFR 1910.132. Hand protection : Wear appropriate protective gloves.

Other Protection Measure

Body protection : Wear appropriate protective clothing. Respiratory Protection : Follow the OSHA respirator regulations found in 29 CFR 1910.134 and 1910.136, and/or the NIOSH/MSHA respirator recommendations in DHSS/NIOSH Publication 230 and 48 CFR 41 CFR 984.3202-1. Use a NIOSH/MSHA or European Standard respirator when exposure levels are exceeded or if irritation or other symptoms are experienced.

Handle in accordance with good industrial hygiene and safety practices.



Gloves Suit

9. Physical and chemical properties

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Appearance

: Liquid.

Colour	: Colourless
Odour	: Odourless.
Odour Threshold	: Not available.
Physical State	: Liquid.
PH Value	: 6.5 to 8.5
Freezing Point / Melting Point	: Not Available
Initial Boiling Point	: 128 °C (262.4 °F)
Flash Point	: Not available
Evaporation Rate	: Not available
Flammability (solid, gas)	: Not applicable
Lower Flammability Limit	: Not available.
Upper Flammability Limit	: Not available.
Vapor Pressure	: Not available.
Vapor Density	: Not available.
Relative Density	: 1.7 (Water = 1) at 25 °C (77 °F)
Solubilities	: Soluble in water.
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Viscosity	: Not available.
Percent Volatile, wt. %	: Not available.
VOC content, wt. %	: Not available.

10. Stability and reactivity

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Reactivity	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	LD50 Dermal
	LD50 = 3500 mg/kg (Rat) >2000 mg/kg (Rabbit)	
Skin corrosion/irritation	Corrosion : None. Mild Irritation	
Toxic Effects on Humans		Hazardous in case of ingestion, of inhalation. Slight
Special Remarks on Chronic Effects on Humans		May cause adverse reproductive effects (male and female fetotoxicity) based on animal data Human: passes through the placenta
Special Remarks on other Toxic Effects on Humans:		Acute Potential Health Effects: Skin: May cause irritation. Inhalation: May cause respiratory tract irritation. Ingestion: May cause nausea and vomiting, abdominal pain, constipation. Rare and may affect the central nervous system (CNS) and other symptoms similar to chronic ingestion. Kidneys (acute renal failure, urinary incontinence). It may also cause eye disturbances such as mydriasis (dilation of pupils), blurring or indistinctness of vision, appearance of objects, large pupils, subnormal reaction to light.

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 products may arise.

Mobility in soil

Will likely be mobile in the environment due to its

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical sat

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 regulations for the disposal of hazardous chemicals in original containers. No mixing with other products is permitted.

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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Federal and State Regulation

TSCA 8(b) inventory: Sodium bromide

Other Regulation

Other Regulations: EINECS: This product is on the List of Dangerous Chemical Substances.

WHMIS (Canada)

Not controlled under WHMIS (Canada)..

DSCL (EEC)

R36- Irritating to eyes. S2- Keep out of the reach of children. S46- If swallowed, seek medical advice immediately.

HMIS

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

Fire :

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 available to us. However, we make no warranty, implied, with respect to such information, and we should make their own investigations to determine particular purposes. In no event shall be liable for any lost profits or any special, indirect, incidental, consequential or other damages even if Rx Marine International has been advised of the possibility of such damages.

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