Material Safety Data Sheet

Calcium Bromide Solution (RXSOL-34-3407-250)

1. Product and Company Identifaction

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

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Email	123@rxmarine.com
Website	www.rxmarine.com

2. Composition / informationon ingredients

Name of Substance	Cas Number	Percentage	Molecular Formula	Molar Mass
Calcium Bromide	7789-41-5	52 - 56%	CaBr2	199.89 g/mol

3. Hazards Identification

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

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. 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.. Inhalation Move to fresh air.
Notes to Physician	Treat symptomatically

5. Fire-fighting Measures

Flammability	Non-flammable.
Flash Point	Not applicable.

Suitable extinguishing media	No information available
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

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

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

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

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

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

Acute toxicity	LD50 Oral LD50 = 3500 mg/kg (Rat)	LD50 Dermal >2000 mg/kg (Rabbit)	LC50 Inhal. 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

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

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

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

15. Regulatory information

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

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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