

1. Product and Company Identification

www.rxmarine.com

Product Name : RXSOL-31-3026-025
Product Type : Calcium Hypo Chlorite Conc active Chlorine 25 ltr.

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

Phone : +91 22 65113333+91 22 65113333 / 5555 / 9999 / 27611360
Fax : +91 22 2781 1318 :::AOH :0091 9821214367
Email : 123@rxmarine.com
Website : www.rxmarine.com

2. Composition / Information on ingredients

www.rxmarine.com

Chemical Name	CAS #
Calcium hypochlorite	7778-54-3

UN No : 1791 IMDG CLASS : 8 PACKING GROUP : III ODOUR : IRRITATING , PUNGENT ODOUR R31: Contact with acids liberates toxic gases R34: Causes burns

3. Hazards Identification

www.rxmarine.com

Potential Acute Health Effects

Very hazardous in case of skin contact (irritant), of eye contact (irritant) or of inhalation. Slightly hazardous in case of skin contact (permeator) to eyes and skin. The amount of tissue damage depends on length of contact. Skin contact can result in corneal damage or blindness. Skin contact can cause inflammation and blistering. Inhalation of dust will produce irritation of the intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe overexposure can produce lung damage, choking, unconsciousness. Prolonged exposure may result in skin burns and ulcerations. Overexposure by inhalation may cause respiratory irritation. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by redness, scaling, reddening, or, occasionally, blistering.

Potential Chronic Health Effects

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organ effects. Repeated exposure of the eyes to a low level of dust can produce irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Inhalation of dust can produce varying degree of respiratory irritation or

4. First Aid Measures

www.rxmarine.com

Eye Contact

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention

Skin Contact

If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical got on the victim's exposed skin, such as the hands : Gently and thoroughly wash the

Contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.	
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Serious Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.
Ingestion	Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Serious Ingestion	Not available.

5. Fire-fighting Measures

www.rxmarine.com

Flammability of the Product	Non-flammable.
Auto-Ignition Temperature	Not applicable
Flash Points	Not applicable
Flammable Limits	Not applicable.
Products of Combustion	Not available
Fire Hazards in Presence of Various Substances	Not applicable
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available Risks of explosion of the product in presence of static discharge: Not available
Fire Fighting Media and Instructions	Not applicable.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.

6. Accidental Release Measures

www.rxmarine.com

Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
Large Spill	Oxidizing material. Corrosive solid. Stop leak if without risk. Do not get water inside container. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch spilled material. Clean up spills in a manner that does not disperse dust into the air. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.

7. Handling and Storage

www.rxmarine.com

Precautions	Keep container dry. Keep away from heat. Keep away from sources of ignition. Keep away from combustible material Do not ingest. Do not breathe dust. Never add water to this product In case of insufficient ventilation, wear suitable respiratory
-------------	---

equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as reducing agents, combustible materials, organic materials, acids, moisture.

May corrode metallic surfaces. Store in a metallic or coated fiberboard drum using a strong polyethylene inner package. Corrosive materials should be stored in a separate safety storage cabinet or room.

Storage

8. Exposure controls and personal protection

www.rxmarine.com

Engineering Controls

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

Splash goggles. Lab coat. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill

Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product

Exposure Limits

Not available

9. Physical and chemical properties

www.rxmarine.com

Physical state and appearance

Liquid

Odor

Not available.

Taste

Not available.

Molecular Weight

142.99 g/mole

Color

Pale Yellow

pH

Alkaline Liquid (11 -13)

Boiling Point

Decomposes

Critical Temperature

Not available.

Specific Gravity

1.18

Vapor Pressure

Not applicable.

Vapor Density

Not available.

Volatility

Not available.

Odor Threshold

Not available.

Water/Oil Dist. Coeff.

Not available.

Ionicity (in Water)

Not available.

Dispersion Properties

See solubility in water.

Solubility

Not available.

10. Stability and reactivity

www.rxmarine.com

Stability

The product is stable.

Instability Temperature

Not available.

Conditions of Instability

Not available.

Incompatibility with various substances

Reactive with reducing agents,

Corrosivity

combustible materials, organic materials, acids, moisture.

Extremely corrosive in presence of aluminum, of zinc. Corrosive in presence of steel, of copper. Slightly corrosive to corrosive in presence of glass, of stainless steel(304), of stainless steel(316).

Special Remarks on Reactivity

Not available.

Special Remarks on Corrosivity

Not available.

Polymerization

No.

11. Toxicological information

www.rxmarine.com

Routes of Entry

Eye contact. Inhalation. Ingestion.

Toxicity to Animals

Acute oral toxicity (LD50): 850 mg/kg [Rat].

Chronic Effects on Humans

The substance is toxic to lungs, mucous membranes.

Other Toxic Effects on Humans

Very hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

Special Remarks on Toxicity to Animals

Not available.

Special Remarks on Chronic Effects on Humans

Not available.

Special Remarks on other Toxic Effects on Humans

Not available.

12. Ecological information

www.rxmarine.com

Ecotoxicity

Not available.

BOD5 and COD

Not available.

Products of Biodegradation

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation

The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation

Not available.

Section 13

Disposal Considerations

13. Disposal considerations

www.rxmarine.com

Waste Disposal

14. Transport information

www.rxmarine.com

DOT Classification

CLASS 5.1: Oxidizing material.

Identification

Calcium hypochlorite, dry : UN1748 PG: II

Special Provisions for Transport

Not available.

15. Regulatory information

www.rxmarine.com

Federal and State Regulations	Pennsylvania RTK: Calcium hypochlorite Massachusetts RTK: Calcium hypochlorite TSCA 8(b) inventory: Calcium hypochlorite CERCLA: Hazardous substances.: Calcium hypochlorite
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
Other Classifications	
WHMIS (Canada)	CLASS C: Oxidizing material. CLASS E: Corrosive solid.
DSCL (EEC)	R22- Harmful if swallowed. R38- Irritating to skin. R41- Risk of serious damage to eyes.
HMIS (U.S.A.)	Health Hazard: 3 Fire Hazard: 0 Reactivity: 2 Personal Protection: j
National Fire Protection Association (U.S.A.):	Health: 3 Flammability: 0 Reactivity: 1 Specific hazard:
Protective Equipment:	Gloves. Lab coat. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

16. Other information

www.rxmarine.com

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 ScienceLab.com 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 ScienceLab.com has been advised of the possibility of such damages.

DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.