

1. Product and Company Identification

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Product Name RXSOL-31-3022-010
Product Type Chlorine Tablets Calcium Based

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA
Branch Stock Point ::: Mumbai, Kandla - Gandhidham, Chennai - Ennore, Visakhapatnam - Gangavaram, Kolkata, Fujairah

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2. Composition / Information on ingredients

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Hazardous Ingredients	% by Weight	Cas No.
Calcium Hypochlorite	60-80%	7778-54-3
Sodium Chloride	10-20%	7647-14-5
Calcium Chloride	0-5%	10043-52-4
Calcium Hydroxide	0-4%	1305-62-0
Calcium Carbonate	0-5%	471-34-1
Calcium Chlorate	0-5%	10137-74-3
Water	5.5-6%	7732-18-5

RXSOL Chlorine Tablet having minimum 65% chlorine and 35% Inert ingredient.

3. Hazards Identification

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Inhalation	Dust and mist irritate the nose and throat. In confined areas, mechanical agitation can result in high levels of dust, incompatibles materials (e.g., acids and water/moisture) can result in high concentrations of chlorine vapour, either of which can result in burns to the respiratory tract, producing lung edema, shortness of breath, wheezing, choking, chest pains, impaired lung function, and possible permanent lung damage.
Skin Contact / Absorption	Calcium hypochlorite dust and solutions can cause irritation and in severe cases, chemical burns, which are characterized by redness, swelling, and scab formation. Moisture from perspirations will accelerate tissue destruction.
Eye Contact	Exposure to calcium hypochlorite can cause eye irritation and vision impairment. Contact can produce impairment of corneal damage.
Ingestion	When ingested, there will be burning of the mouth and throat. Can cause abdominal cramps, vomiting, diarrhea, nausea, and ulceration which may lead to convulsions, coma, and even death.
Exposure Limits	Ceiling= 3mg/m ³ as chlorine (manufacturer's internal standard)

4. First Aid Measures

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Inhalation	Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, get immediate medical attention.
Skin Contact / Absorption	Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation occurs or if symptoms persist.
Eye Contact	Flush immediately with water for at least 20 minutes. Forcibly hold eyelids apart to ensure complete irrigation of the eye. Get immediate medical attention.
Ingestion	Immediately give large amounts of water. Do not induce vomiting. If vomiting occurs, lean victim forward to prevent aspiration. Do not give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention.
Additional Information	Not available

5. Fire-fighting Measures

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Conditions of Flammability

Non-flammable. Note calcium hypochlorite is a strong oxidizer. Do not mix with combustibles, organic, or other oxidizable materials.

Means of Extinction

Drench with water, and cool surrounding products. Do not use water on products containing ammonium compounds.

Flash Point

Not Applicable

Auto-ignition Temperature

Not Applicable

Upper Flammable Limit

Not Applicable

Lower Flammable Limit

Not Applicable

Hazardous Combustible Products

Chlorine, oxygen, and chlorine monoxide at high concentrations. Calcium hypochlorite can release hydrochloric acid or chlorine gas.

Special Fire Fighting Procedures

Wear NIOSH-approved self-contained breathing apparatus.

Explosion Hazards

Not sensitive to mechanical impact or static discharge.

6. Accidental Release Measures

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Leak / Spill.

Wear appropriate personal protective equipment. Ventilate area. Prevent material from entering sewers. Flush with water.

Deactivating Materials

Not available

7. Handling and Storage

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Handling Procedures

Use proper equipment for lifting and transporting. Follow good housekeeping practices. Wash thoroughly after handling. Avoid skin exposure.

Storage Requirements

Store in a cool, dry, well-ventilated place. Keep away from heat and materials. Keep out of the sun.

8. Exposure controls and personal protection

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Protective Equipment

Eyes

Chemical goggles, full-face shield, or a full-face respirator. Do not handle. Contact lenses should not be worn; they may become contaminated.

Respiratory

Use NIOSH-approved respirator - full facepiece respirator. Use a self-contained breathing apparatus if necessary.

Gloves

Impervious gloves of chemically resistant material. Wash contaminated clothing and dry thoroughly before reuse.

Clothing

Body suits, aprons, and/or coveralls of chemically resistant material. Wash contaminated clothing and dry thoroughly before reuse.

Footwear

Impervious boots of chemically resistant material.

Engineering Controls

Ventilation Requirements

Mechanical ventilation (dilution or local exhaust) conditions should be provided. Supply sufficient systems

Other

Emergency shower and eyewash should be in close

9. Physical and chemical properties

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Physical State

Odor and Appearance

Odor Threshold

Specific Gravity (Water=1)

Specific Gravity (Water=1)

Vapor Pressure (mm Hg, 20C)

not applicable

Vapor Density (Air=1)

Not available.

Evaporation Rate

Not available.

Boiling Point

not applicable

Freeze/Melting Point

Decomposes at 170-180°C

pH

10.4-10.8 (1% solution)

Water/Oil Distribution Coefficient

Not applicable

Bulk Density

0.8 g/cm³

% Volatiles by Volume

Not available

Solubility in Water

18% at 25°C

Molecular Formula

Ca(OCl)₂

Molecular Weight

142.98

Small

White, TABLET solid with a strong chlorine odor

- 1.4 rights based on chloride

10. Stability and reactivity

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Stability

Incompatibility

Stable in optimum storage conditions. Heat, sunlight, oxidizers, reducing agents, combustible materials such as organic materials, acids, and bases. Do not mix with water or steam, ammonia, urea, amines, or other chemicals. Do not use extinguishers containing monoammonium phosphate.

Hazardous Products of Decomposition

Water in contact with calcium hypochlorite releases chlorine gas, which is an explosion and fire hazard. Toxic or corrosive fumes may be released.

Polymerization

Will not occur

11. Toxicological information

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Irritancy

Causes irritation and burns to eyes and skin

Sensitization

Not available

Chronic/Acute Effects

Skin irritation may occur from repeated or prolonged exposure. Inhalation may cause irritation and permanent lung damage. May be aggravated by exposure to this chemical.

Synergistic Materials

Not available

Animal Toxicity Data

LC50(inhalation, rat, 1 hour)= 1300mg/m³ based on

Carcinogenicity
Reproductive Toxicity
Teratogenicity
Mutagenicity

LD50(oral,rat)= 850mg/kg

LD50(dermal,rabbit)= > 2000mg/kg

Not considered to be carcinogenic as per IARC, N

Not reported to show reproductive toxicity.

Results in laboratory analysis show it is not a tetrog

Results in laboratory analysis show it is not a mutag

12. Ecological information

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Fish Toxicity

LC50(bluegill,96 hour)= 0.088mg/L

LC50(rainbow trout,96 hour)= 0.16mg/L

Biodegradability

LC50(daphnia magna,48 hour)= 0.11mg/L

Environmental Effects

Not available

Not available

13. Disposal considerations

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Waste Disposal

Dispose in accordance with all federal, provincial,
Environmental Protection Act.

14. Transport information

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N/A

15. Regulatory information

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N/A

16. Other information

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