

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.
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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/m3 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 area. Seek 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.

Deactivating Materials

Prevent material from entering sewers. Flush with water. Do not use water on products containing ammonium compounds. 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 moisture. 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 must be removed before handling.

Respiratory

Use NIOSH-approved respirator - full facepiece. Do not use if not present. Use a self-contained breathing apparatus if necessary.

Gloves

Impervious gloves of chemically resistant material. Wash hands after use. Contaminated clothing and dry thoroughly before reuse.

Clothing

Body suits, aprons, and/or coveralls of chemically resistant material. 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 proximity

9. Physical and chemical properties

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Physical State	Solid
Odor and Appearance	White, TABLET solid with a strong chlorine odour
Odor Threshold	~ 1.4 mg/m3 based on chlorine
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

10. Stability and reactivity

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Stability	Stable in optimum storage conditions. Heat, sunlight, oxidizing agents, reducing agents, combustible materials such as organic materials, oil, etc.
Incompatibility	Extinguishers containing monoammonium phosphate, carbon dioxide, water or steam, ammonia, urea, amines
Hazardous Products of Decomposition	Water in contact with calcium hypochlorite releases chlorine gas, which is highly toxic and may cause explosion and fire hazard. Toxic or corrosive fumes may be evolved.
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. Chronic exposure may lead to impairment of lung function 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 chlorine gas

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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