## 1. Product and Company Identifaction

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Product Name RXSOL-31-3028-025

Product Type Calcium Hypochlorite Granuels

Company Details:

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

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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	5.5-10%	7732-18-5

#### 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, and reaction with incompatibles

materials (e.g., acids and water/moisture) can result in high concentrations of chlorine vapour, either of which may result in burns to the respiratory tract, producing lung edema, shortness of breath, wheezing, choking, chest pains, impairment of lung function, and possible permanent lung damage.

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 vision and corneal

damage.

Ingestion When ingested, there will be burning of the mouth and throat. Can cause

abdominal cramps, vomiting, diarrhea, nausea, and/or tissue ulceration

which may lead to convulsions, coma, and even death.

Ceiling= 3mg/m3 as chlorine (manufacturer's internal standard)

### 4. First Aid Measures

Skin Contact / Absorption

**Exposure Limits** 

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Inhalation Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek immediate medical

attention.

Skin Contact / Absorption Remove contaminated clothing. Wash affected area with soap and water.

Seek medical attention if irritation occurs or persists.

Flush immediately with water for at least 20 minutes. Forcibly hold

eyelids apart to ensure complete irrigation of eye tissue. Seek immediate

medical attention.

Ingestion Immediately give large amounts of water. Do not induce vomiting. If

vomiting occurs, lean victim forward to prevent breathing in vomitus. Do not give anything by mouth to an unconscious or convulsing person.

Seek immediate medical attention.

Additional Information Not available

# 5. Fire-fighting Measures

Eye Contact

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Conditions of Flammability Non-flammable. Note calcium hypochlorite is a strong oxidizing agent;

may form explosive mixtures with combustibles, organic, or other

oxidizable materials.

Means of Extinction Drench with water, and cool surrounding products and area with water.

Avoid dry extinguishers 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 higher temperatures. Water

in contact with hot calcium hypochlorite can release hydrochloric acid or

chlorine gas.

Special Fire Fighting Procedures Wear NIOSH-approved self-contained breathing apparatus and protective

clothing.

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. Stop or

reduce leak if safe to do so. Prevent material from entering sewers. Flush

with water to remove any residue. .

Deactivating Materials Not available

## 7. Handling and Storage

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Handling Procedures

Use proper equipment for lifting and transporting all containers. Use

sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure.

Storage Requirements Store in a cool, dry, well-ventilated place. Keep container tightly closed,

and away from incompatible 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 is to be worn

at all times when product is handled. Contact lenses should not be worn;

they may contribute to severe eye injury.

Respiratory Use NIOSH-approved respirator - full facepiece with chlorine and

dust/mist cartridges when dust is present. Use a self-contained breathing

apparatus should be used for major spills

Gloves Impervious gloves of chemically resistant material (rubber or PVC)

should be worn at all times. Wash contaminated clothing and dry

thoroughly before reuse.

Clothing Body suits, aprons, and/or coveralls of chemical resistant material should

be worn at all times. Wash contaminated clothing and dry thoroughly

before reuse

Footwear Impervious boots of chemically resistant material should be worn at all

times

**Engineering Controls** 

Other

Ventilation Requirements Mechanical ventilation (dilution or local exhaust), process or personnel

enclosure, and control of process conditions should be provided. Supply sufficient replacement air to make up for air removed by exhaust systems

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 applicableVapor Density (Air=1)Not available.Evaporation RateNot available.Boiling Pointnot applicable

Freeze/Melting Point Decomposes at 170-180°C pH 10.4-10.8 (1% solution)

Water/Oil Distribution Coefficient

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 and contamination could cause decomposition

Incompatibility Acids, reducing agents, combustible materials such as wood, cloth, or

organic materials, dry powder fire extinguishers containing

monoammonium phosphate, metals such as iron and copper and their

alloys, water or steam, ammonia, urea, amines

Hazardous Products of Decomposition Water in contact with calcium hypochlorite releases chlorine gas. Contact with incompatibles presents an explosion and fire hazard. Toxic or

corrosive fumes may be liberated. These include chlorine gas Will not occur

Polymerization

## 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 skin contact.

Chronic inhalation exposure may cause impairment of lung function and permanent lung damage. Asthma, respiratory and cardiovascular disease

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

LD50(oral,rat)= 850mg/kg

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

Carcinogenicity Not considered to be carcinogenic as per IARC, NTP, OSHA, and

ACGIH.

Reproductive Toxicity Not reported to show reproductive toxicity.

Teratogenicity Results in laboratory analysis show it is not a tetrogen Mutagenicity Results in laboratory analysis show it is not a mutagen

# 12. Ecological information

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

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

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

Biodegradability Not available Environmental Effects Not available

### 13. Disposal considerations

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Waste Disposal

Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

## 14. Transport information

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DOT Classification CLASS 5.1: Oxidizing material.

Identification Calcium hypochlorite, dry: UN1748 PG: II

Special Provisions for Transport Not available.

## 15. Regulatory information

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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

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The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the users own assessment of workplace risk as required by other health and safety legislation.

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