

1. Product and Company Identification

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Product Name RXSOL-31-3028-0251
Product Type Cationic Organic Surface Agent T

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.	Symbol
Calcium Hypochlorite	30-40%	7778-54-3	NA
Hydrated Lime	30-40%	1305-62-0	O, Xn, N
Calcium Carbonate	25-30%	471-34-1	

3. Hazards Identification

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Odour	Chlorine
Appearance	White
Contact with eyes	Risk of serious damage to eyes. Causes serious eye irritation.
Contact with skin	Causes irritation, Prolonged skin contact will result in defatting of the skin.
Contact with acid	Contact with acids liberates toxic gas.
	Warning! Do not use together with other products. May release dangerous gases
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4. First Aid Measures

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Inhalation	Do not induce vomiting person Give water or milk to drink
Skin Contact / Absorption	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.Wash with plenty of soap and water.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.Get immediate medical advice/attention.
Ingestion	Do not induce vomiting person Give water or milk to drink
Additional Information	When in doubt or symptoms persist, seek medical attention.Use good personal hygiene practices

5. Fire-fighting Measures

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- Non-flammable

- In case of fire: use water for extinction
- DO NOT USE dry extinguishers containing ammonium compounds such as dry powder.

6. Accidental Release Measures

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Personal Precautions	- Avoid raising dust - Wear protective clothing as per section 8 - Contact with water may form explosive gases - Evacuate the area and keep personnel upwind
Environmental Precautions	- Avoid release to the environment. - Do not allow to enter public sewers and watercourses - If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities
Immediate Actions	Use appropriate containment to avoid environmental contamination (S57).
Clean Up Actions	- Collect as much as possible in clean container for reuse or disposal - Do not absorb spillage in sawdust or other combustible material - Seek expert advice for removal and disposal of all contaminated materials and wastes
Special Precautions	Wear protective clothing as per section 8.

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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Exposure limits	- No exposure limits have been set for this substance.
Exposure controls	- Engineering controls should be provided which maintain airborne concentrations below the relevant guidelines
Occupational Exposure Controls	- In case of inadequate ventilation wear respiratory protection. - Wear suitable protective clothing, including eye/face protection and gloves (butyl rubber are recommended) - When handling this substance, e.g. sampling, wear goggles giving complete eye protection

9. Physical and chemical properties

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Physical State	Solid
Odor and Appearance	White, 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 125-130°C
pH	10.4-10.8 (1% solution)
Water/Oil Distribution Coefficient	Not applicable
Bulk Density	0.8 g/cm ³
% Volatiles by Volume	Not available
Solubility in Water	18% at 25°C

10. Stability and reactivity

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Reactivity

- Oxidising agent
- Warning! Do not use together with other products. May release dangerous gases (chlorine).

Chemical stability

- Decomposes above 200 °C

Possibility of hazardous reactions

- Contact with acids liberates toxic gas.

Conditions to avoid

- Avoid contact with acids and alkalis
- Avoid contact with combustible material
- Avoid contact with foodstuffs
- Avoid contact with reducing agents
- Keep away from heat and sources of ignition

Incompatible materials

- Incompatible with acids and alkalis
- Incompatible with reducing agents
- Contact with water may form explosive gases
- Contact with acids liberates toxic gas.

Hazardous Decomposition Products

- Decomposition products may include carbon oxides
- Decomposition products include chlorine.
- Decomposition products may include phosg

11. Toxicological information

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Toxicological information

- LD50 (oral,rat) 809 mg/kg
- LD50 (skin,rabbit) 7600 mg/kg
- Irritation to eyes (rabbit) :Corrosive
- Irritation to skin (rabbit): Moderate

Inhalation

- May cause dizziness
- Causes coughing
- Can cause damage to the mucous membranes
- In cases of severe exposure, burning sensation may develop
- In cases of severe exposure, delayed pulmonary oedema may develop

Contact with skin

- May cause irritation
- In cases of severe exposure, burning sensation may develop
- In cases of severe exposure, dermatitis may develop

Contact with eyes

- Causes severe irritation
- Can cause damage to the eyes

Ingestion

- The ingestion of significant quantities may cause damage to digestive system
- The ingestion of significant quantities may cause burning sensation

Carcinogenicity

No evidence of carcinogenic effects

12. Ecological information

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Toxicity