

1. Product and Company Identification

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Product Name RXSOL-19-1628-025
Product Type Calcium Chloride Anhydrous

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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NameCAS # % .by Weight
Calcium chloride, Anhydrous 10043-52-4 . 100

Toxicological Data on Ingredients: Calcium chloride, Anhydrous: ORAL (LD50): Acute: 1000 mg/kg [Rat]. 1940 mg/kg

3. Hazards Identification

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Potential Acute Health Effects Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in ca (permeator)

Potential Chronic Health Effects CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mut and/or yeast. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substanc heart, cardiovascular system. Repeated or prolonged exposure to the substance can produce target organs damage.

4. First Aid Measures

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Eye Contact Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least water may be used. Get medical attention

Skin Contact In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove cont and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attent

Serious Skin Contact Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical att

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medi

Serious Inhalation Not available

Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscio quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or v

Serious Ingestion Not Available

5. Fire-fighting Measures

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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 discharge: Not available.
Fire Fighting Media and Instructions	Not Applicable
Special Remarks on Fire Hazards	Not Available
Special Remarks on Fire Hazards	Furan-2-peroxycarboxylic acid + calcium chloride causes explosion at room temperature

6. Accidental Release Measures

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Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading contaminated surface and dispose of according to local and regional authority requirements
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the container and allow to evacuate through the sanitary system

7. Handling and Storage

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Precautions	Keep locked up.. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation use respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin. Keep away from incompatibles such as moisture
Storage	Hygroscopic. Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 30°C (86°F)

8. Exposure controls and personal protection

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Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the recommended limits.
Personal Protection	Safety glasses. Synthetic apron. Gloves (impervious).
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE use
Exposure Limits	Not available

9. Physical and chemical properties

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Physical state and appearance	Solid. (Crystalline solid.)
Odor	Odorless
Taste	Saline
Molecular Weight	110.99 g/mole
Color	Colorless. White. Off-white
Boiling Point	1670°C (3038°F)
Melting Point	772°C (1421.6°F)
Critical Temperature	Not available
Specific Gravity	2.15 (Water = 1)
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, acetone
Solubility	Easily soluble in cold water, hot water, acetone. Freely soluble in alcohol. Soluble in Acetic Acid

10. Stability and reactivity

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Stability	The product is stable
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Instability Temperature	Not available
Conditions of Instability	Incompatible materials, moisture
Incompatibility with various substances	Reactive with moisture
Corrosivity	Non-corrosive in presence of glass
Special Remarks on Reactivity	Hygroscopic. Reacts violently (violent boiling) with water, generating heat. Forms flammable gases and evolves hydrogen with zinc. Solutions attack some metals. Generates heat and violent polymerization occurs when mixed with methyl vinyl trifluoride reacts violently with and attacks calcium chloride
Special Remarks on Corrosivity	Not available
Polymerization	Will not occur

11. Toxicological information

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Routes of Entry	Absorbed through skin. Inhalation. Ingestion
Toxicity to Animals	Acute oral toxicity (LD50): 1000 mg/kg [Rat].
Chronic Effects on Humans	MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. May cause following organs: heart, cardiovascular system
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeation)
Special Remarks on Toxicity to Animals	Lowest Published Lethal Dose: LDL [Rabbit] - Route: Oral; Dose: 1384 mg/kg
Special Remarks on Chronic Effects on Humans	May affect genetic material based on animal data. May cause cancer (tumorigenic) based on animal data
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: May cause severe irritation and possible burns, especially if skin is wet. Contact with mild irritation. Contact of solid with moist/wet skin or skin contact with strong solutions may cause marked irritation Eyes: May cause severe irritation, possible transient corneal injury, and possible eye burns. Inhalation: May cause severe upper respiratory tract with pain, inflammation and possible burns. Ingestion: May cause severe gastrointestinal (digestion) with nausea, vomiting and possible burns. May affect cardiovascular system (cardiac disturbances, slow heart beat), blood metabolism, blood, and brain, respiration (rapid respiration). Chronic Potential Health Effects: effects may be delayed

12. Ecological information

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Ecotoxicity	Ecotoxicity in water (LC50): 100 mg/l 96 hours [Fish].
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 less toxic than the product itself.
Special Remarks on the Products of Biodegradation	Not available

13. Disposal considerations

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Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations
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14. Transport information

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DOT Classification	Not a DOT controlled material (United States).
Identification	Not applicable
Special Provisions for Transport	Not applicable

15. Regulatory information

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Federal and State Regulations	TSCA 8(b) inventory: Calcium chloride, Anhydrous
Other Regulations	EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances
Other Classifications	

WHMIS (Canada)	CLASS D-2B: Material causing other toxic effects (TOXIC).
DSCL (EEC)	R36- Irritating to eyes. S2- Keep out of the reach of children. S22- Do not breathe dust. S24- Avoid contact with skin
HMIS (U.S.A.):	
Health Hazard	2
Fire Hazard	0
Reactivity	1
Personal Protection:	C
National Fire Protection Association (U.S.A.):	
Health	2
Flammability	0
Reactivity:	2
Specific hazard:	
Protective Equipment	Gloves (impervious). Synthetic apron. Wear appropriate respirator when ventilation is inadequate. Safety glasses

16. Other information

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References: Not available.

Other Special Considerations: Not available.

Created: 10/09/2005 04:31 PM

Last Updated: 06/09/2012 12:00 PM

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