Material Safety Data Sheet

Calcium Chloride Anhydrous (RXSOL-19-1628-025)

1. Product and Company Identifaction

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

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / informationon ingredients

Name ……..CAS # % ……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

Potential Acute Health Effects	Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator)
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic forbacteria and/or yeast. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to heart, cardiovascular system. Repeated or prolonged exposure to the substance can produce target organs damage.

4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold 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 contaminated clothing and shoes. Cold water may be used.Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medicalattention
Serious Inhalation	Not available
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband
Serious Ingestion	Not Available

5. Fire-fighting Measures

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 presence of static 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

Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the 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 contaminated surface and allow to evacuate through the sanitary system

7. Handling and Storage

Precautions	Keep locked up.. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. 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

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit
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 handling this product
Exposure Limits	Not available

9. Physical and chemical properties

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

Stability	The product is stable
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 when reacted with zinc. Solutions attack some metals. Generates heat and violent polymerization occurs when mixed with methyl vinyl ether. Bromine trifluoride reacts violently with and attacks calcium chloride
Special Remarks on Corrosivity	Not available
Polymerization	Will not occur

11. Toxicological information

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 damage to the 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 (permeator)
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 dry skin causes mild irritation. Contact of solid with moist/wet skin or skin contact with strong solutions may cause marked irritation or possible burns. Eyes: May cause severe irritation, possible transient corneal injury, and possible eye burns. Inhalation: May cause severe irritation of the upper respiratory tract with pain, inflammation and possible burns. Ingestion: May cause severe gastrointestinal (digestive) tract irritation with nausea, vomiting and possible burns. May affect cardiovascular system (cardiac disturbances, slow heart beat), behavior (seizures), metabolism, blood, and brain, respiration (rapid respiration). Chronic Potential Health Effects: effects may be delayed

12. Ecological information

Ecotoxicity	Ecotoxicity in water (LC50): 100 mg/l 96 hours [Fish].
BOD5 and COD	Not available
Products of Biodegradationa	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

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

14. Transport information

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

15. Regulatory information

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 Classificationsa	
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

References: Not available.
Other Special Considerations: Not available.
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