

Safety Data Sheet

Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER	
Product name:	Calcium chloride prill (anhydrous) 96%
Other Names:	Calcium Chloride, Anhydrous
Chemical formula:	CaCl ₂
Recommended Use:	Used as a drying, dehydrating, desiccating agent for organic liquids, gases. Obsolescent use as refrigerant brine. Dust control for roads. De-icing fluid, freeze proofing and thawing coal, coke, stone, sand, ore. Sizing and finishing cotton fabrics; used in the paper and pulp industry. In the manufacture of fungicides. Conditioning treatment for concrete
Company Identification:	Kemcore International Limited
Address:	133 CONNAUGHT RD UNIT 703 ALLIANCE COMM BLDG, HONGKONG
Customer Centre:	
Section 2: HAZARD IDENTIFICATION	
Emergency Overview:	Harmful if swallowed. Causes eye irritation. May cause skin irritation. Causes respiratory tract irritation.
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).
Routes of entry:	Absorbed through skin. Inhalation. Ingestion
Target organs:	Eyes. Skin. Respiratory system

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Skin contact:	May cause skin irritation.	
Eye contact:	Causes eye irritation.	
Inhalation:	Dust irritates the respiratory system, and may cause coughing and difficulties in breathing.	
Ingestion:	Harmful if swallowed. Irritating. May cause nausea, stomach pain and vomiting.	
Chronic Exposure:	Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following. Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems. Long term exposure to high dust concentrations may cause changes in lung function i.e. pneumoconiosis; caused by particles less than 0.5 micron penetrating and remaining in the lung. Prime symptom is breathlessness; lung shadows show on X-ray.	
Explanation of carcinogenicity:	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA	
Medical conditions aggravated by exposure:	None known.	
Section 3: Composition Information		
INGREDIENT	CAS No.	CONTENT
Calcium chloride, Anhydrous	10043-52-4	100%
Section 4: FIRST AID MEASURES		
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical	

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	attention.
Ingestion: a	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.
Skin:	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.
Eye:	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.
Advice to Doctor:	<p>BASIC TREATMENT</p> <ul style="list-style-type: none">• Establish a patent airway with suction where necessary.• Watch for signs of respiratory insufficiency and assist ventilation as necessary.• Administer oxygen by non-rebreather mask at 10 to 15 l/min.• Monitor and treat, where necessary, for pulmonary edema.• Monitor and treat, where necessary, for shock.• Anticipate seizures.• DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool. <p>ADVANCED TREATMENT</p> <ul style="list-style-type: none">• Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.• Positive-pressure ventilation using a bag-valve mask might be of use.• Monitor and treat, where necessary, for arrhythmias.• Start an IV D5W TKO. If signs of hypovolemia are present

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	<p>use lactated Ringers solution. Fluid overload might create complications.</p> <ul style="list-style-type: none">• Drug therapy should be considered for pulmonary edema.• Hypotension with signs of hypovolemia requires the cautious administration of fluids. Fluid overload might create complications.• Treat seizures with diazepam.• Proparacaine hydrochloride should be used to assist eye irrigation
Section 5: FIREFIGHTING MEASURES	
Flash Point:	Not applicable.
Combustion Products:	Hydrogen Chloride gas, Carbon oxides, Calcium oxide
Extinguishing Media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Protective Equipment:	Firefighters should wear full protective gear. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.
HAZCHEM Code:	None allocated
Section 6: ACCIDENTAL RELEASE MEASURES	
Spills and Disposal:	<p>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.</p> <p>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.</p>

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Protective Clothing:	Wear appropriate protective equipment and clothing during clean-up
Environmental:	Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
Section 7: HANDLING AND STORAGE	
Handling:	Wear appropriate personal protective equipment. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling. See Section 8 of the MSDS for Personal Protective Equipment.
Storage:	Hygroscopic. Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 30°C (86°F).
Other Information:	
Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION	
Exposure Limits:	5-10 mg/m ³
Protective Equipment:	Safety glasses. Synthetic apron. Gloves (impervious).
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.
Hygiene Precautions:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Section 9. PHYSICAL AND CHEMICAL PROPERTIES	

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Appearance:	Solid. (Crystalline solid.)
Odour:	Odourless
Specific Gravity:	2.15
Bulk Density:	Not available
pH:	9
Solubility in Water:	Easily soluble in cold water and hot water
Flash Point:	Not applicable
Melting Point:	772°C (1421.6°F)
Other Information:	
Section 10: STABILITY AND REACTIVITY	
Stability:	The product is stable.
Hazardous Decomposition Products:	Oxides of calcium. Hydrogen chloride
Conditions to Avoid:	Excessive heat. Water, moisture.
Materials to Avoid:	Strong oxidizing agents.
Section 11: TOXICOLOGICAL INFORMATION	
ERMA Classification:	6.1D (oral), 6.1E (dermal), 6.3A, 6.4A
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

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	respiration).
Inhalation:	May cause severe irritation of the upper respiratory tract with pain, inflammation and possible burns.
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.
Eye:	May cause severe irritation, possible transient corneal injury, and possible eye burns.
Chronic Effects:	Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. May cause damage to the following organs: heart, cardiovascular system
Other Information:	
Section 12: ECOLOGICAL INFORMATION	
ERMA Classification:	9.3C
Ecotoxicity:	Ecotoxicity in water (LC50): 100 mg/l 96 hours [Fish].
Section 13: DISPOSAL INFORMATION	
Product Disposal:	Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. All wastes must be handled in accordance with local, state and federal regulations.
Container Disposal:	Since emptied containers retain product residue, follow label warnings even after container is emptied. Offer rinsed packaging material to local recycling facilities.
Section 14: TRANSPORT INFORMATION	

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UN Number:	Not applicable
Proper Shipping Name:	Not applicable
DG Class:	Not applicable
UN Packing Group:	Not applicable
Other Information:	
Section 15: REGULATORY INFORMATION	
Reportable Quantity: N/A NFPA Rating: Health - 1; Flammability - 0; Instability - 1 0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme Carcinogenicity Lists: No NTP: No IARC Monograph: No OSHA Regulated: No SARA Title III: Section 311: Acute Hazard, Reactivity Hazard	
Section 16: OTHER INFORMATION	