


Safety Data Sheet

Section 1. Identification		
Product Identifier	Calcium Chloride	Version: 6 Effective Date: 8 February, 2016
Other Means Of Identification	None	
Initial Supplier Identifier	Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055	
Recommended Use And Restrictions on Use	Dust control, concrete curing agent. No restrictions	
Product Family	Inorganic Salt	
24 Hour Emergency	Canutec (613) 996-6666	

Section 2. Hazard Identification	
Hazard Classification	
Health Hazards	Skin Damage/Irritation – Category 2 Eye Damage/Irritation – Category 2B Acute Toxicity (oral) – Category 4
Signal Word	Warning
Hazard Statement	Causes skin irritation. Causes eye irritation. Harmful if swallowed.
Precautionary Prevention Statement	Wash hands thoroughly after handling. Wear protective gloves. Do not eat, drink or smoke when using this product.
Precautionary Response Statement	IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse Specific treatment: treat as a thermal burn after decontamination. Do not induce vomiting unless directed by medical personnel. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF SWALLOWED: Call a doctor if you feel unwell. Rinse mouth.



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Precautionary Storage Statement	None
Precautionary Disposal Statement	Dispose of contents/container in accordance with local regulations.
Other Hazards	None

Section 3. Composition / Information on Ingredients

Chemical Name	Common Name or Synonyms	CAS NO. and Other Unique Identifiers	% by weight
Calcium Chloride	None	10043-52-4	90

Section 4. First-Aid Measures

Eye Contact	Flush eyes with water for 15 minutes. Seek medical attention.
Skin Contact	Flush area with water. If irritation persists seek medical attention. Launder clothing before reuse.
Inhalation	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
Ingestion	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
Most Important Symptoms and Effects Both Acute and Delayed	May cause skin and eye burns.
Immediate Medical Attention and Special Treatment	If burns are presented, treat as a thermal burn after decontamination.

Section 5. Fire-Fighting Measures

Suitable and Unsuitable Extinguishing Media	Use extinguishing media suitable for surrounding fire. Do not use direct water jet.
Hazardous Combustion Products	None known.
Specific Hazards Arising From the Product	Dissolves exothermically in water.



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Special Protective Equipment and Precautions for Fire-Fighting	Fire-fighters should wear self-contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire.
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Section 6. Accidental Release Measures	
Personal Precautions, Protective Equipment and Emergency Procedures	Gloves, coveralls, safety glasses. Evacuate all unnecessary personnel, secure area and carefully sweep up spilt material.
Environmental Precautions	Do not allow spilled material to enter sewers and surface watercourses.
Methods and Materials for containment and Clean-Up	Carefully sweep up spilled material, avoid creating dust. Place material in a suitable container for disposal. Wash area thoroughly with water to remove residues.

Section 7. Handling and Storage	
Precautions For Safe Handling	Handle with care. Heat is generated in contact with water, this can be extremely high – try and keep temperature below 27 °C.
Conditions For Safe Storage	Store in a cool dry place. Keep containers tightly closed when not in use. Protect against moisture.

Section 8. Exposure Controls / Personal Protection				
Control Parameters	TWA: 8 Hr	STEL: 15 min	Ceiling	IDLH *
Calcium Chloride	15 mg/m ³ (Total)	5 mg/m ³ (Respirable)		
	OSHA * Immediately Dangerous to Life and Health			
Exposure Controls	Local exhaust ventilation			
Appropriate Engineering Controls	Ensure eye wash station and safety shower are available.			
Individual Protective Measures				
Eye / Face Protections	Safety glasses			
Skin Protection	Chemical resistant coveralls and gloves			
Respiratory Protection	Dust mask.			

Section 9. Physical and Chemical Properties	
Appearance	White pellets
Odour	No odour
Odour Threshold	Not applicable.
pH	No data.
Flash Point	No data
Boiling Point and Boiling Range	>815 °C
Melting Point / Freezing Point	260 °C
Evaporation Rate	Not applicable.
Flammability (solid, gas)	Not flammable
Upper and Lower flammability or Explosive Limits	No data
Vapour Pressure	Not applicable.
Vapour Density	Not applicable.
Relative Density	2.2
Solubility	Soluble
Partition co-efficient, n-Octanol/Water	No data
Auto-ignition Temperature	No data
Decomposition Temperature	No data
Viscosity	No data

Section 10. Stability and Reactivity	
Reactivity	Stable
Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur
Conditions to Avoid	Exposure to moisture.
Incompatible Materials	Heat is generated when mixed with water. Spattering and boiling can occur. Sulphur acid. Flammable hydrogen gas may be generated from contact with metals such as zinc or sodium. Reaction of bromide impurity with oxidizing metals may generate trace levels of impurities such as bromate.



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Hazardous Decomposition Products Not expected to decompose under normal conditions of use.

Section 11. Toxicological Information			
Component Toxicity	LD50 Oral	LD50 Dermal	LC50 Inhalation
Calcium Chloride	1.0g/kg (Rat)	2.63g/kg (Rabbit)	
Likely Routes of Exposure			
Skin:	Prolonged and repeated exposure may cause irritation especially if the skin is damp. May present as a thermal burn.		
Eyes:	May cause severe irritation. May cause corneal injury. Effects may be slow to heal.		
Inhalation:	Dust may be irritating to the respiratory tract.		
Ingestion:	Harmful if ingested in large quantities. May cause digestive tract irritation and ulceration.		
Acute Toxicity Estimates (ATE)	Not classified		
STOT (Specific Target Organ Toxicity) – Single Exposure	Not classified		
Aspiration Toxicity	Not classified		
STOT (Specific Target Organ Toxicity) – Repeated	Not classified		
Skin Corrosion / Irritation	Corrosive		
Serious Eye Damage / Irritation	Corrosive		
Respiratory or Skin Sensitization	Not classified		
Carcinogenicity	Not listed		
Reproductive Toxicity			
- Sexual Function and Fertility	Not classified		
- Development of Offspring	Not classified		
- Effects on or via Lactation	Not classified		
Germ Cell Mutagenicity	Not classified		
Interactive Effects	Not classified		
Other Information	None known		



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Section 12. Ecological Information	
Ecotoxicity	LC50: 10650 mg/L (Lepomis macrochirus)
Persistence and Degradability	Not readily degradable
Bioaccumulative Potential	No data
Biodegradability	No data
Mobility in Soil	Not available
Other Adverse Effects	None

Section 13. Disposal Considerations	
Disposal Considerations	Dispose of contents/container in accordance with local, provincial and federal regulations

Section 14. Transport Information	
UN Number	Not applicable
UN Proper Shipping Name	Not applicable
Transport Hazard Class(es)	Not applicable
Packaging Group	Not applicable
Environmental Hazards	Not applicable
Bulk Transport	Not applicable
Special Precaution	Not applicable
DOT Erg#	Not applicable

Section 15. Regulatory Information	
Canada – DSL Inventory	All components of this product are either on the Domestic Substances List (DSL), Non-Domestic Substances List (NDSL) or exempt
TSCA	All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt
Additional Information	None



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Section 16. Other Information	
NFPA Rating	Health-1/ Flammability-0/Reactivity-0/Special Hazard-Not applicable
HMIS Rating	Health-1/Flammability-0/Reactivity-0/Personal Protection-See Section 8.
Prepared by:	Chemfax Products Ltd., Technical Department
Date Prepared:	27 September, 2012
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