



Safety Data Sheet

1. Product Identifier and Company Identification

Product name	: Calcium Chloride, Powder	
HBCC SDS number	: CC05400	
Synonym	: Calcium Chloride, Anhydrous	
Product use and Restrictions	: Refer to label or call	
Manufacturer	: Corporate Headquarters	Corporate Safety & Compliance
Contact Address	Hill Brothers Chemical Company 1675 North Main Street Orange, California 92867 714-998-8800 800-821-7234	Hill Brothers Chemical Company 7121 West Bell Road, Suite 250 Glendale, Arizona 85308 623-535-9955 - Office 623-535-9944 - Fax
Emergency telephone Number (Chemtrec)	: 800-424-9300	
Website	: http://hillbrothers.com	

2. Hazard Identification

Classification : Acute Toxicity, Oral; Category 4
Acute Toxicity, Inhalation; Category 4
Skin Corrosion/Irritation; Category 3
Serious Eye Damage/Eye Irritation; Category 2A

Signal Word : Warning

Pictogram(s) :



Hazard Statements : H302+H332: Harmful if swallowed or if inhaled.
H316: Causes mild skin irritation.
H319: Causes serious eye irritation.

Precautionary Statements

Response : P301+P312+P330: IF SWALLOWED: Call a POISON CENTER or doctor if you Feel unwell. Rinse mouth.
P304+P340+P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.
P332+P313: If skin irritation occurs: Get medical advice/attention.

Prevention : P261: Avoid breathing dusts.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink, or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear eye protection and protective gloves.

Storage : N/A

Disposal : P501: Dispose of contents/container in accordance with local, regional, national, and international regulations.

3. Composition/Information on Ingredients

CAS Number	Ingredient Name	Weight %
10043-52-4	Calcium Chloride	93%
	Alkali Chlorides	<5%
	Moisture	<4%

4. First Aid Measures

Summary of First Aid Measures

Ingestion : If victim is conscious, have victim drink water. If victim is unconscious or having convulsions, keep victim warm. GET MEDICAL ATTENTION.

Inhalation : Move to fresh air; if discomfort persists, GET MEDICAL ATTENTION.

Skin : If necessary, remove contaminated clothing and shoes. Flush affected areas with plenty of water for at least 15 minutes. Wash clothing and thoroughly clean shoes before reuse. Seek medical attention.

Eyes : Remove any contact lenses and promptly flood with water and continue washing for at least 15 minutes. GET MEDICAL ATTENTION.

Medical Conditions : N/A

Effects of Overexposure : N/A

Summary of Acute Health Hazards : N/A

Ingestion : Causes irritation of mouth and stomach. May cause nausea and vomiting.

Inhalation : Causes irritation of the nose and throat. Inhalation of the dust may cause irritation to the respiratory tract, with symptoms of coughing and shortness of breath.

Skin : Contact of the solid with dry skin causes mild irritation. Severe irritation may be caused by moist skin.

Eyes : Contact with the eyes (particularly by dust) causes irritation and possible transient corneal injury.

Note to Physicians : N/A

Summary of Chronic Health Hazards : N/A

5. Fire Fighting Measures

Extinguishing : Use extinguishing media most appropriate for the surrounding fire.

Special Exposure Hazards : At high temperatures or when moistened under fire conditions, calcium chloride may produce toxic or irritating fumes.

Special Protective Equipment for Firefighters : In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Fire Fighting Procedures : N/A

NFPA Rating : Health - 1
Flammability - 0
Instability - 1



0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

Uniform Fire Code Rating : N/A

6. Accidental Release Measures

Personal Precautions : Avoid generating dusty conditions.

Emergency Procedures : N/A

Methods of Containment And Clean-Up : Shovel dry material into a container and remove container to a safe area.

7. Handling and Storage

Safe Handling : Store in a cool, dry, well-ventilated area away from incompatible

substances. Prevent possible eye and skin contact by wearing protective clothing and equipment.

Storage : Moist calcium chloride and concentrated solutions can corrode steel. When exposed to the atmosphere, calcium chloride will absorb water and form a solution.

Work/Hygienic Practices : Avoid contact with the eyes, skin, and mucous membranes. Wash hands before eating, drinking, or using the restroom. Shower and eyewash facilities should be accessible. Do NOT place food, coffee or other drinks in the area where dusting or splashing of solutions is possible. Dust deposits on floors and other surfaces may pick up moisture and cause the surfaces to become slippery and present safety hazards.

Ventilation : N/A

8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Chemical Name: Calcium Chloride, Powder				
	Exposure Limits (TWAs) in Air				
	CAS Number	IDLH	ACGIH TLV	OSHA PEL	STEL
	10043-52-4	N/A	N/A	N/A	N/A

Protective Equipment : Employees should use protective clothing and gloves when handling calcium chloride. Provide ventilation.

Eye Protection : Employees should wear safety goggles or face shield when handling calcium chloride.

Respiratory Protection : Avoid breathing dust. Dust mask or dust respirator may be helpful in preventing inhalation exposures. If necessary, use only MSHA- or NIOSH-approved respirators.

9. Physical and Chemical Properties

Appearance: White Powder	Odor: Odorless
Odor Threshold: N/A	---
Melting Point/Freezing Point: 773°C; 1424°F	Initial Boiling Point/Range: 1935°C (3515°F)
Flash Point: N/A	Evaporation Rate (BuAc=1): N/A
Flammability: N/A	Lower/Upper Explosive Limit: N/A
Vapor Pressure (mmHg): N/A	Vapor Density (Air=1): N/A
Heat of Fusion: 110.6 Btu/Lb.; 61.5 cal./g	Solubility in Water: 40% @ 20°C (68°F) with evolution of heat.
Heat of Solution in H2O: -317.2 Btu/Lb.; -176.2 cal./g; (exothermic reaction)	Heat Capacity at 25°C (77°F): 0.16 Btu/Lb. or cal./g
Decomposition Temperature: N/A	Density at 25°C (77°F): 134.84 Lb./Ft³
% Volatiles: N/A	Loose Bulk Density: N/A
Molecular Weight: 110.990	VOC: N/A

10. Stability and Reactivity

- Reactivity** : It is highly hygroscopic, releasing heat when solved in water
- Chemical Stability** : Stable product under normal conditions
- Possibility of Hazardous Reactions or Polymerizations** : Hazardous polymerization will not occur
- Conditions to Avoid** : Dust generation, excess heat, exposure to moist air or water.
- Incompatible Materials** : Bromine Trifluoride and mixtures of bone acid and lime. 2
-Furanpercarboxylic Acid.
- Hazardous Decomposition Products** : Emits toxic chlorine fumes when heated to decomposition. May form hydrogen chloride in presence of sulfuric or phosphoric acids or with water at elevated temperatures. Calcium Oxide.

11. Toxicological Information

Acute and Chronic Effects : See Section 4

Routes of Exposure

- Inhalation** : Yes
- Ingestion** : Yes
- Skin** : Yes, though not absorbed through skin
- Eyes** : Yes

Symptoms related to Physical, Chemical & Toxicological Characteristics : Possible superficial burns and transient corneal injury.

Numerical Measures of Toxicity : N/A

Chronic Toxicity : N/A

Carcinogenicity : N/A

Product Name: Calcium Chloride, Powder					
ACGIH	IARC	EPA	NIOSH	NTP	OSHA
No	No	No	No	No	No

TARGET ORGANS : N/A

12. Ecological Information

Ecotoxicity : The LC50/96-hour values for fish are over 100 mg/l.

Persistence and Degradability : N/A

Bioaccumulative Potential :

Product/Ingredient	Log _{POW}	BCF	Potential
-	-	-	-

Mobility in Soil : N/A

13. Disposal Considerations

Disposal of Container : Add to large volume of water. Stir in light excess soda ash. (Add slaked lime in presence of fluoride.) Decant and neutralize in second container with 6M -HCL. Dispose of in accordance with any local, state, and federal regulations.

14. Transport Information

This product is not regulated as a hazardous material, substance or dangerous good.

15. Regulatory Information

SARA 302 Extremely Hazardous Substances (EHS) : No chemical in this product is listed as an Extremely Hazardous Substance (EHS) under Section 302 of EPCRA.

SARA 304 Extremely Hazardous Substances (EHS) Release Notification : No chemical in this product is listed as an Extremely Hazardous Substance (EHS) which, if released to the environment in quantities at or above the substance's Reportable Quantity (RQ), would require reporting to the SERC and LEPC under Section 304 of EPCRA.

SARA 311/312 Hazards :

SARA 311/312 Hazards				
Acute	Chronic	Flammability	Pressure	Reactivity
No	No	No	No	No

SARA 313 Reportable Chemicals : No chemical in this product is subject to annual emissions, transfers, or waste management reporting under the Community-Right-to-Know provisions of EPCRA Section 313, also known as the Toxic Release Inventory (TRI) Report or Form R.

CERCLA Hazardous Substances : No chemical in this product is listed as a CERCLA hazardous substance subject to the National Response Center (NRC) release reporting requirements.

Clean Air Act (CAA) Section 112(r) Air Pollutants : No chemical in this product is listed as an air pollutant under the U.S. Clean Air Act, Section 112(r) (40 CFR 61).

- California Prop 65 Chemicals** : This product does not contain any chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.
- Hazard Label Warning** : This product does not require hazard label warnings.
- TSCA (Toxic Substances Control Act)** : All chemical substances in this product are listed on the U.S. TSCA Inventory List.

ACRONYMS:

- CAS # – Chemical Abstract Services Registry Number
CFR – Code of Federal Regulations
CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act
EPCRA – Emergency Planning and Community Right-to-Know Act
LEPC – Local Emergency Planning Committee
SERC – State Emergency Response Commission

16. Other Information

- Revision date** : 05/21/2015
Supersedes : 02/25/2015
First Issue : 12/01/1985
- Chemical Family/Type** : Inorganic Salt
- Section(s) changed since last revision** : MSDS to First Issue SDS Conversion

IMPORTANT! Read this SDS before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure. This SDS has been prepared in accordance with the Globally Harmonized System of Chemical and Labeling of Chemicals (GHS) Fifth Edition and the OSHA Hazard Communication Standard [29 CFR 1910.1200]. The SDS information is based on sources believed to be reliable. Available data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control; **Hill Brothers Chemical Company** makes no warranty, either expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Additional information may be necessary or helpful for specific conditions and circumstances of use. It is the user's responsibility to determine the suitability of this product and to evaluate risks and exercise appropriate precautions for protection of employees and others prior to use.