



Safety Data Sheet

1. Product Identifier and Company Identification

Product name	: Hi 94	
HBCC SDS number	: CC05300	
Synonym	: Anhydrous Calcium Chloride, Prilled Calcium Chloride, Calcium Dichloride	
Product use and Restrictions	: Refer to label or call	
Manufacturer		
Contact Address	: Corporate Headquarters Hill Brothers Chemical Company 1675 North Main Street Orange, California 92867 714-998-8800 800-821-7234	: Corporate Safety & Compliance 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 contacts 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%

**Synonyms/
Common Names** : Anhydrous Calcium Chloride, Prilled Calcium Chloride, Calcium Dichloride

4. First Aid Measures

Summary of First Aid Measures

Ingestion : Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of water. Never give anything by mouth to an unconscious person. Get medical attention.

Inhalation : Remove from exposure area to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Skin : Remove contaminated clothing and shoes. Wash affected area with soap or mild detergent. Get medical attention.

Eyes : Flush eyes thoroughly with large amounts of water for at least 15 minutes. If irritation or adverse symptoms develop, seek medical attention.

Medical Conditions : N/A

**Effects of
Overexposure** : N/A

Summary of Acute Health Hazards

Ingestion : May cause severe gastrointestinal tract irritation with nausea, vomiting and possible burns. May cause cardiac disturbances. May be harmful if swallowed.

- Inhalation** : Dust may cause irritation to mucous membranes and respiratory system.
- Skin** : Contact with skin causes irritation and possible burns, especially if the skin is wet or moist.
- Eyes** : Contact with eyes may cause severe irritation, and possible eye burns.
- Note to Physicians** : Treat symptomatically and supportively.
- Summary of Chronic Health** : N/A

5. Fire Fighting Measures

- Extinguishing** : Dry chemical, carbon dioxide, water spray or regular foam. For larger fires, use water spray, fog or regular foam. (1996 Emergency Response Guidebook, DOT P 5800.7). Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Extinguish fire using agent suitable for type of surrounding fire and or chemicals. Do not use water directly on material. Avoid breathing corrosive vapors; keep upwind.

- Special Exposure** : Negligible fire hazard when exposed to heat or flame. Move container(s) from fire area if you can without risk. At high temperatures or when moistened under fire conditions, calcium chloride may produce toxic or irritating fumes.

Hazards

- Special Protective Equipment for Firefighters** : Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face-piece 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** : Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately.

7. Handling and Storage

- Safe Handling** : Avoid skin and eye contact and breathing dusts. Wash thoroughly after handling. Launder contaminated clothing before re-use. Always use cool water when dissolving calcium chloride. Heat evolved is significant.
- Storage** : Observe all federal, state, and local regulations when storing this product. Store in a covered, clean and dry container away from incompatible material.
- Work/Hygienic Practices** : Wash hands with soap and water before eating, drinking, smoking, or using toilet facilities. Do NOT place food, coffee or other drinks in the area where dusting or splashing of solutions is possible.
- Ventilation** : Provide local exhaust ventilation system.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits :

Chemical Name: Chlorine				
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** : Wear appropriate protective gear for the situation. Wear appropriate protective (impervious) clothing. Leather work boots and/or leather products will dehydrate with resultant shrinkage and possible destruction. Wear appropriate non-leather protective gloves and boots.
- Eye Protection** : Wear safety glasses with splash shields or safety goggles/shield. Where there is a possibility of exposure, eye wash fountain and safety shower should be provided within the immediate work area for emergency use.
- Respiratory Protection** : A respirator is not indicated under normal operating conditions. Use of a NIOSH approved respirator should be based upon the presence of nuisance dust. When warranted, use a face mask particulate respirator with a NIOSH N95 rating such as Moldex 2800N95, MSA 816581 or 3M 8576PN5 or equivalent.

9. Physical and Chemical Properties

Appearance: White pellet/Granules	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./Ft ³
% Volatiles: N/A	Loose Bulk Density: 42.45-51.20 Lb./Ft ³
Molecular Weight: 110.990	VOC: N/A

Solvent Solubility: Soluble in alcohol, acetic acid and acetone

10. Stability and Reactivity

Reactivity	: N/A
Chemical Stability	: Stable
Possibility of Hazardous Reactions or Polymerizations	: Hazardous polymerization will not occur under normal temperatures and pressures.
Conditions to Avoid	: Anhydrous form reacts exothermically with water. Dust generation, excess heat, exposure to moist air or water.
Incompatible Materials	: Strong oxidizing agents, Bromine trifluoride, 2-Furanpercarboxylic Acid.
Hazardous Decomposition Products	: Hydrogen chloride, calcium oxide

11. Toxicological Information

Acute and Chronic Effects : See Section 4

Routes of Exposure

Inhalation	: Yes
Ingestion	: Yes
Skin	: Yes
Eyes	: Yes

Symptoms related to Physical, Chemical & Toxicological Characteristics : Eye, mucous membrane and skin irritant. Moderately toxic by ingestion, slightly toxic by thermal absorption.

Numerical Measures of Toxicity : TDLO: 112 g/kg, oral, 20 weeks, rat
LDLO: 274 mg/kg, subcutaneous, dog
LD50: 1000 mg/kg, oral, rat
LD50: 264 mg/kg, intraperitoneal, rat

Chronic Toxicity : N/A

Carcinogenicity : N/A

Product Name:					
ACGIH	IARC	EPA	NIOSH	NTP	OSHA
No	No	No	No	No	No

TARGET ORGANS : N/A

12. Ecological Information

Ecotoxicity : N/A

Persistence and Degradability : N/A

Bioaccumulative Potential :

Product/Ingredient	Log _{pow}	BCF	Potential
N/A	N/A	N/A	N/A

Mobility in Soil : N/A

13. Disposal Considerations

Disposal of Container : Observe all federal, state and local regulations when disposing of this substance.

14. Transport Information

UN# : N/A
Proper Shipping Name : N/A
Hazard Class/Division : N/A
Packing Group : N/A
Marine Pollutant : N/A
Special Precautions : N/A
Emergency Response Guidebook : N/A
Placard Advisory : N/A

15. Regulatory Information

Section 302 Extremely Hazardous Substance (EHS)	: N/A
Section 304 Extremely Hazardous Substance (EHS)	: N/A
CERCLA Hazardous Substance	: N/A
Section 313 Supplier Notification	: N/A
Clean Air Act (CAA)	: N/A
California Prop 65	: N/A
Label Warning	: N/A
EPA Registration	: N/A
Reportable Quantity	: N/A
SARA Title III Section 311	: Acute Hazard, Reactivity Hazard

16. Other Information

Revision date	: 02/25/2015
Supersedes	: 08/09/2010
First Issue	: 04/04/1995
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.