

Material Safety Data Sheet

Revision Issued: 8/09/2010 Supercedes: 7/02/2008 First Issued: 4/04/1995

Section I - Chemical Product And Company Identification

Product Name: Hi 94

CAS Number: N/A

HBCC MSDS No. CC05300



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Section II - Composition/Information On Ingredients

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

Section III - Hazard Identification

Routes of Exposure: Inhalation, Skin

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.

Chronic Exposure: N/A

Summary of Chronic Health Hazards: N/A

Signs and Symptoms of Exposure: N/A

Effects of Overexposure: N/A

Medical Conditions Generally Aggravated by Exposure: N/A

Note to Physicians: Treat symptomatically and supportively.

Section IV - 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.

Section V - Fire Fighting Measures

Flash Point: N/A

Autoignition Temperature: N/A

Lower Explosive Limit: N/A

Upper Explosive Limit: N/A

Unusual Fire and Explosion Hazards: Negligible fire hazard when exposed to heat or flame.

Extinguishing Media: 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).

Special Firefighting Procedures: Move container(s) from fire area if you can without risk. 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. 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. At high temperatures or when moistened under fire conditions, calcium chloride may produce toxic or irritating fumes.

Section VI - Accidental Release Measures

Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately. Avoid generating dusty conditions. Wear appropriate protective gear for the situation. See personal protection information in Section 8.

Section VII - Handling and Storage

Avoid skin and eye contact and breathing dusts. Wash thoroughly after handling. Launder contaminated clothing before re-use. Observe all federal, state, and local regulations when storing this product. Store in a covered, clean and dry container away from incompatible material. Always use cool water when dissolving calcium chloride. Heat evolved is significant.

Section VIII - Exposure Controls/Personal Protection

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.

Ventilation: Provide local exhaust ventilation system.

Protective Clothing: Wear appropriate protective (impervious) clothing. Leather work boots and/or leather products will dehydrate with resultant shrinkage and possible destruction.

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.

Other Protective Clothing or Equipment: Wear appropriate non-leather protective gloves and boots.

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.

Section IX - Physical and Chemical Properties

Physical State: Solid **pH:** 9-10
Melting Point/Range: 187°C; 369°F **Boiling Point/Range:** 2912°F
Appearance/Color/Odor: White pellet/flakes, odorless.
Solubility in Water: 40% @ 20°C (68°F) with evolution of heat.
Specific Gravity(Water=1): 1.85 **Molecular Weight:** 111.0 – 150.0
Vapor Density(Air=1): N/A **% Volatiles:** N/A
How to detect this compound : N/A **Vapor Pressure(mmHg):** N/A
Solvent Solubility: Soluble in alcohol, acetic acid and acetone

Section X - Stability and Reactivity

Stability: Stable **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.
Materials to Avoid: Strong oxidizing agents, Bromine trifluoride, 2-Furanpercarboxylic Acid.
Hazardous Decomposition Products: Hydrogen chloride, calcium oxide

Section XI - Toxicological Information

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
Local Effects: Eye, mucous membrane and skin irritant.
Health Effects: Moderately toxic by ingestion, slightly toxic by thermal absorption.

Section XII - Ecological Information

N/A

Section XIII - Disposal Considerations

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

Section XIV - Transport Information

DOT Proper Shipping Name: N/A
DOT Hazard Class/ I.D. No.: N/A

Section XV - 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 XVI - Other Information

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

Chemical Family/Type: Inorganic Salt

Sections changed since last revision: X

IMPORTANT! Read this MSDS 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 MSDS has been prepared according to the OSHA Hazard Communication Standard [29 CFR 1910.1200]. The MSDS information is based on sources believed to be reliable. However, since 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. Also, 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 prior to use, and then to exercise appropriate precautions for protection of employees and others.