

## Material Safety Data Sheet

Revision Issued: 11/24/2010 Supercedes: 11/29/2006 First Issued: 5/26/1992

### Section I - Chemical Product And Company Identification

#### Product Name: Hico Thaw

CAS Number: 10043-52-4

HBCC MSDS No. CC05956



# HILL BROTHERS Chemical Co.

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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:** Hico Thaw can affect the body if it is ingested or if it comes in contact with the eyes or skin.

**Summary of Acute Health Hazards**

**Ingestion:** Causes irritation of mouth and stomach.

**Inhalation:** Causes irritation of nose and throat.

**Skin:** Causes mild irritation.

**Eyes:** Causes irritation and possible transient corneal injury.

**Summary of Chronic Health Hazards:** May cause perforation of the nasal septum and nosebleeds. Contact with heated product can cause thermal burns with resultant corneal injury.

**Effects of Overexposure:** Possible superficial burns and transient corneal injury.

**Medical Conditions Generally Aggravated by Exposure:** N/A

### Section IV - First Aid Measures

**Ingestion:** If swallowed will cause nausea and vomiting. If victim is conscious, have victim drink water or milk. If victim is unconscious or having convulsions, do nothing except 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.

**Eyes:** Promptly flood with water and continue washing for at least 15 minutes.

Consult an ophthalmologist.

## Section V - Fire Fighting Measures

**Flash Point:** Not flammable      **Autoignition Temperature:** Not flammable

**Lower Explosive Limit:** N/A      **Upper Explosive Limit:** N/A

**Unusual Fire and Explosion Hazards:** N/A

**Extinguishing Media:** This product is non-flammable.

**Special Firefighting Procedures:** Avoid breathing corrosive vapors; keep upwind. Dike area to prevent runoff and contamination of water sources. For firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

## Section VI - Accidental Release Measures

Dike the spilled liquid, and either pump back into original container or cover with clay-type substance for absorption.

## Section VII - Handling and Storage

Store at ambient temperature. Prevent possible eye and skin contact by wearing protective clothing and equipment. Launder contaminated clothing before re-use.

## Section VIII - Exposure Controls/Personal Protection

**Respiratory Protection:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection as indicated by your risk assessment process. In misty atmospheres, use an approved particulate respirator.

**Ventilation:** Use local exhaust in enclosed areas. Natural ventilation for outdoor areas.

**Protective Clothing:** Employees should be provided with and use impervious clothing, rubber gloves, and rubber boots. Leather work boots and/or leather products will dehydrate with resultant shrinkage and possible destruction.

**Eye Protection:** Employees should be provided with and required to use splash-proof safety goggles where there is any possibility of calcium chloride contacting the eyes.

**Other Protective Clothing or Equipment:** N/A

**Work/Hygienic Practices:** Avoid Wash hands thoroughly 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:** Liquid

**pH:** 5 to 7

**Melting Point/Range:** N/A

**Boiling Point/Range:** N/A

**Appearance/Color/Odor:** Clear liquid, odorless

**Solubility in Water:** 100%

**Vapor Pressure(mmHg):** N/A

**Specific Gravity(Water=1):** 1.347 @ 60°F

**Molecular Weight:** 110. 99 (for pure CaCl<sub>2</sub>)

**Vapor Density(Air=1):** N/A

**% Volatiles:** N/A

**How to detect this compound :** N/A

### Section X - Stability and Reactivity

**Stability:** Stable

**Hazardous Polymerization:** Will not occur

**Conditions to Avoid:** N/A

**Materials to Avoid:** Metals will slowly corrode in aqueous solutions. Boric acid and calcium oxide are incompatible.

**Hazardous Decomposition Products:** If liquid completely dries from fire, thermal decomposition products may include toxic and corrosive fumes of chlorine and hydrogen chloride. Product may react with some metals (aluminum, zinc, tin, etc.) to release flammable hydrogen gas.

### Section XI - Toxicological Information

Toxicity Data (anhydrous calcium chloride):

TDLO: 112 g/kg, oral, 20 weeks, rat

LDLO: 274 mg/kg, oral, rat

LD50: 1000 mg/kg, oral, rat

LD50: 264 mg/kg, intraperitoneal, rat

Moderately toxic by ingestion, slightly toxic by dermal absorption.

### Section XII - Ecological Information

N/A

### Section XIII - Disposal Considerations

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. Route to sewage plant. Use as landfill sludge. Notify local sewage plant and solid waste authority.

### 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 - 0

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

**Carcinogenicity Lists:** No **NTP:** No **IARC Monograph:** No **OSHA Regulated:** No  
TSCA Inventory

### Section XVI - Other Information

**Synonyms/Common Names:** Calcium Chloride-Liquid, Hico Thaw, Corrosion Inhibitive Calcium Chloride

**Chemical Family/Type:** Inorganic Salt

Sections changed since last revision: III, V, VII, VIII, IX, XI

**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

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