



# American International Chemical, Inc.

Corporate Offices: (800) 238-0001

Internet: [www.aicma.com](http://www.aicma.com) Email: [info@aicma.com](mailto:info@aicma.com)

## MATERIAL SAFETY DATA SHEET

### CALCIUM CHLORIDE DIHYDRATE

#### SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc. 135 Newbury Street Framingham, MA 01701	Emergency Number: Chemtrec Information Number:	800-424-9300 703-527-3887 800-238-0001
---	---	--

Date: August 2007

Synonyms: None

CAS #: 10035-04-8

DOT Hazard Class: Not Regulated

#### SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Calcium Chloride Dihydrate 99.5% min.

#### SECTION 3 - HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** White, odorless crystals or powder, that can cause irritation to the skin, eyes and respiratory tract especially in humid conditions. Slipper when wet. Aqueous solutions are corrosive. Material is highly hygroscopic.

**POTENTIAL HEALTH EFFECTS:**

**Eyes:** Will cause irritation and reddening.

**Skin:** Will cause irritation, contact with abraded skin or cuts may cause severe Necrosis (tissue destruction).

**Inhalation:** Will cause irritation to the respiratory tract.

**Ingestion:** Will cause stomach upset and burning feeling.

**CARCINOGENICITY:** Not listed under OSHA, IARC, or NTP.

#### SECTION 4 - FIRST AID MEASURES

**Eyes:** Flush with plenty of water for at least 15 minutes.

**Skin:** Remove contaminated clothing and wash off skin with soap and water.

**Inhalation:** Remove to the fresh air.

**Ingestion:** Dilute with several glasses of water or milk.

**On All Of The Above:** Seek medical assistance if symptoms persist.

---

### **SECTION 5 - FIRE FIGHTING MEASURES**

Flash Point: Not Applicable

Flammable Limits: Not Applicable

Extinguishing Media: Use media that is appropriate to treat surrounding fire.

Special Fire Fighting Procedures: Use fire fighting procedure that is appropriate to treat surrounding fire.

Unusual Fire Explosion Hazard: Material is slippery when wet. Upon decomposition, will emit toxic chlorine fumes.

Auto Ignition Temperature: Not Applicable

---

### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Isolate hazard area and deny entry to unnecessary or unprotected personnel.

Contain spill, sweep up, collect and place in a non metal disposal container. Avoid runoff into storm sewers and ditches which lead to waterways.

---

### **SECTION 7 - HANDLING AND STORAGE**

Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use normal personal hygiene and housekeeping. Store in cool dry area away from other incompatible materials. Product is highly hygroscopic and should be stored in a dry area to prevent moisture pick up and caking. Product is slippery when wet.

---

### **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirators.

VENTILATION REQUIREMENTS: Ventilate as necessary to eliminate dust from the work area.

SKIN AND EYE PROTECTION:

Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin from dust.

WORK, HYGIENIC PRACTICES:

As required to protect skin and eyes from dust, safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE LIMITS: None Established

---

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point: 1600°C or 2912°F

Vapor Pressure (MM Hg): Not Applicable

Vapor Density (AIR=1): Not Applicable

Specific Gravity (H2O=1): 2.5

Bulk Density: Not Available

Percent Volatile by Volume (%): Not Applicable

Melting Point: Not Applicable

Evaporation Rate (Butyl Acetate=1): Not Applicable

Solubility in Water: Complete

pH: Acidic in Aqueous solutions

---

## **SECTION 10 - STABILITY AND REACTIVITY**

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Upon decomposition, will emit toxic chlorine fumes. May form hydrogen chloride in the presence of sulfur, phosphoric acid or water at elevated temperatures.

KEEP AWAY FROM: Methyl vinyl ether, water, zinc, bromine, trifluoride, mixtures of lime and boric acid, barium chloride, and 2-furan percarboxylic acid. Metals will slowly corrode in aqueous calcium chloride solutions. Aluminum (and alloys) and yellow brass will be attacked by calcium chloride.

---

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

Not Available

---

## **SECTION 12 - ECOLOGICAL INFORMATION**

Not available

---

## **SECTION 13 - DISPOSAL CONSIDERATIONS**

Dispose of in accordance with all federal, state and local regulations.

RCRA WASTE #: Not Listed

---

**SECTION 14 - TRANSPORTATION INFORMATION**

D.O.T. SHIPPING NAME:.....Calcium Chloride - Not Regulated

---

**SECTION 15 - REGULATORY INFORMATION**

TSCA (TOXIC SUBSTANCE CONTROL ACT):

State: This product is listed on the TSCA Inventory.

CERCLA REPORTABLE REQUIREMENTS: (RQ) None

SARA TITLE III INFORMATION:

Section 302 Extremely hazardous Substance: Unlisted

Section 313 Toxic Chemicals: Unlisted

Section 311/312 Hazard Category: Immediate (acute) Health Hazard.

---

**SECTION 16 - OTHER INFORMATION**

Reason for Issue: Changed Date

**This information is given without any warranty or representation. It is believed to be correct but does not claim to be all inclusive and shall be used only as a guide. American International Chemical, Inc., shall not be held liable for any damage resulting from handling or contact with the above product. It is offered solely for your consideration, investigation and verification.**

---