



**Chief Medical Supplies Ltd.**  
411 – 19 Street, S. E.  
Calgary, AB., Canada.  
T2E 6J7  
1.866.620.6034

## Safety Data Sheet Calcium Chloride Dihydrate

Document No. M-D6-006

### Section I – Product and Company Identification

<b>Synonym:</b> NA	<b>Company Identification:</b>
<b>CAS No.:</b> 10035-04-8	Chief Medical Supplies Ltd.
<b>Molecular Weight:</b> 147.01g/mol	411 – 19 Street, S. E.
<b>Chemical Formula:</b> CaCl <sub>2</sub> ·2H <sub>2</sub> O	Calgary, AB., Canada.
<b>Product Code:</b> CaCl-74, CaCl-0827, CaCl-1489, CaCl-4135-5	T2E 6J7 1.866.620.6034
	<b>For information, call:</b> 1-403-207-6034
	<b>Emergency Number:</b> 1-403-207-6034

### Section II – Hazards Identification

**Appearance:** Crystalline Solid

**Physical State:** Solid

**Odor:** Odorless

**Hazards of Product:** Slightly hazardous in case of skin contact, of eye contact (irritant), of ingestion, of inhalation

**Potential Health Hazards:** Not available

### Section III – Composition/Information on Ingredients

Ingredient Name	Chemical Formula	CAS No.	% by weight
Calcium chloride dihydrate	CaCl <sub>2</sub> • 2H <sub>2</sub> O	10035-04-8	100%

### Section IV – First Aid Measures

**Skin Contact:** In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

**Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

## Section V – Fire Fighting Measures

<b>Conditions of flammability:</b>	Not flammable
<b>Means of extinction:</b>	Not flammable
<b>Flash point and method of determination:</b>	Not flammable
<b>Upper flammable limit:</b>	Not available
<b>Lower flammable limit:</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Hazardous combustion products:</b>	Not available
<b>Explosion data - sensitivity to mechanical impact:</b>	Not available
<b>Explosion data - sensitivity to static discharge:</b>	Not available

## Section VI – Accidental Release Measures

### **Small Spill:**

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

### **Large Spill:**

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

## Section VII – Handling and Storage

**Handling Procedures:** Not available

**Storage Requirements:** Hygroscopic. Keep container tightly closed. Keep container in a cool, well-ventilated area.

## Section VIII – Exposure Controls/Personal Protection

### **Engineering Controls:**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### **Personal Protection**

**Eyewear:** Safety glasses or goggles

**Gloves:** Protective gloves

**Clothing:** Lab coat

## Section IX – Physical and Chemical Properties

**Physical state:** Solid

**Odour and appearance:** Odorless

**Odour threshold:** Not Available

**Specific gravity:** 0.835 (Water = 1)

**Vapour pressure:** Not Applicable

**Vapour density:** Not Available

**Evaporation rate:** Not Available

**Boiling point:** Not Available

**Freezing point:** 175.5°C (347.9°F)

**pH: (1% soln/water):** Not Available

**Coefficient of water/oil distribution:** Not Available

## Section X – Stability and Reactivity

**Stability:** Stable

**Conditions to avoid:** Dust generation, exposure to moist air or water, incompatible materials.

**Incompatible materials:** Reactive with metals, acids.

**Conditions of reactivity:** Not available

**Hazardous decomposition products:** Not available

## Section XI – Toxicological Information

**Route of entry:** Inhalation. Ingestion

**Effects of acute exposure: Acute oral toxicity (LD50): 1000 mg/kg [Rat].**

**Effects of chronic exposure: MUTAGENIC EFFECTS:** Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. May cause damage to the following organs: heart, cardiovascular system

**Special Remarks on Chronic Effects on Humans:**

May affect genetic material based on animal data. May cause cancer (tumorigenic) based on animal data

**Special Remarks on other Toxic Effects on Humans:**

Acute Potential Health Effects: Skin: Causes skin irritation with possible burning sensation especially if skin is wet or moist. Eyes: Causes eye irritation. Inhalation: Causes respiratory tract and mucous membrane irritation with burning sensation and pain in nasal cavities, occasional nose bleeding and tickling in the throat. Ingestion: May be harmful if swallowed. May cause severe gastrointestinal tract irritation with nausea, and vomiting. May cause cardiac disturbances (slowing of heart rate, arrhythmia, tachycardia, heart fibrillation). May affect behavior (somnolence, convulsions). Chronic Potential Health Effects: Ingestion: May affect the musculoskeletal system, blood, brain, heart, and metabolism (weight loss).

## Section XII – Ecological Information

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The product itself and its products of degradation are not toxic.

**Special Remarks on the Products of Biodegradation:** Not available.

### Section XIII – Disposal Considerations

**Waste disposal:** Waste must be disposed of in accordance with federal, state and local environmental control regulations

### Section XIV – Transport Information

**Special shipping information:** Not available

**Transport of Dangerous Goods (TDG):** None

**Department of Transportation (DOT):** None

**International Maritime Dangerous Goods (IMO):** None

**International Civil Aviation Organization (ICAO):** None

### Section XV – Regulatory Information

**Federal and State Regulations:** TSCA 8(b) inventory: Calcium chloride, Anhydrous

**Other Regulations: EINECS:** This product is on the European Inventory of Existing Commercial Chemical Substances.

**Other Classifications:**

**WHMIS (Canada):** CLASS D-2B: Material causing other toxic effects (TOXIC).

**DSCL (EEC):**

R36- Irritating to eyes. S2- Keep out of the reach of children. S22- Do not breathe dust. S24- Avoid contact With skin.

**HMIS (U.S.A.):**

Health Hazard: 2

Fire Hazard: 0

Reactivity: 1

Personal Protection: C

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 0

Reactivity: 2

Specific hazard:

**Protective Equipment:**

Gloves (impervious). Synthetic apron. Wear appropriate respirator when ventilation is inadequate.  
Safety glasses

## Section XVI – Other Information

*SDS creation date: Sep 08, 2013*

*Last revision date: Jan 08, 2016*

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Chief Medical Supplies be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Chief Medical Supplies has been advised of the possibility of such damages.

***This product has been classified in accordance with the hazard criteria of the CPR  
and the SDS contains all of the information required by the CPR***