Safety Data Sheet
Calcium Chloride Dihydrate

Section I – Product and Company Identification

Synonym: NA
CAS No.: 10035-04-8
Molecular Weight: 147.01 g/mol
Chemical Formula: CaCl₂ • 2H₂O
Product Code: CaCl-74, CaCl-0827, CaCl-1489, CaCl-4135-5

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

For information, call: 1-403-207-6034
Emergency Number: 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

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Chemical Formula</th>
<th>CAS No.</th>
<th>% by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium chloride dihydrate</td>
<td>CaCl₂ • 2H₂O</td>
<td>10035-04-8</td>
<td>100%</td>
</tr>
</tbody>
</table>

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

**Conditions of flammability:** Not flammable

**Means of extinction:** Not flammable

**Flash point and method of determination:** Not flammable

**Upper flammable limit:** Not available

**Lower flammable limit:** Not available

**Auto-ignition temperature:** Not available

**Hazardous combustion products:** Not available

**Explosion data - sensitivity to mechanical impact:** Not available

**Explosion data - sensitivity to static discharge:** 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.