

## CALCIUM CHLORIDE (DIHYDRATE)

### SECTION 1: PRODUCT IDENTIFICATION

**Product Name:** CALCIUM CHLORIDE (DIHYDRATE)

**Product Code:** 291

**CAS#:** 10035-04-8.

**Chemical Formula:** CaCl<sub>2</sub>.2H<sub>2</sub>O

**Molecular Formula:** Not available

**Formula Weight:** 147.02

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

**Composition:**

**Name:** Calcium Chloride Dihydrate

**Toxicological Data on Ingredients:**

Eye irritation (Category 2), H319, R36.

### SECTION 3: HAZARDS IDENTIFICATION

**Potential Acute Health Effects:** Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

**Potential Chronic Health Effects:**

**CARCINOGENIC EFFECTS:** Not Available

**MUTAGENIC EFFECTS:** Not Available

**TERATOGENIC EFFECTS:** Not Available

**DEVELOPMENTAL TOXICITY:** Not Available. The substance may be toxic to heart. Repeated or prolonged exposure to the substance can produce target organs damage.

### SECTION 4: FIRST AID MEASURES

**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 if irritation occurs.

**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.

**Serious Skin contact:** Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

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

**Serious Inhalation:** Not Available.

**Ingestion:** If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

**Serious Ingestion:** Not available

### SECTION 5: FIRE FIGHTING MEASURES

**Flammability of the Product:** Non-flammable.

**Auto-Ignition Temperature:** Not Applicable

**Flash Points:** Not Applicable.

**Flammable Limits:** Not Applicable.



**Products of Combustion:** Hydrogen chloride gas, Calcium oxide.

**Fire Hazards in Presence of Various Substances:** Not Applicable.

**Explosion Hazards in Presence of Various Substances:**

**Risks of explosion of the product in presence of mechanical impact:** Not available.

**Fire Fighting Media and Instructions:**

**SMALL FIRE:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**LARGE FIRE:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special Remarks on Fire Hazards:** Not Available.

**Special Remarks on Explosion Hazards:** Not Available.

## SECTION 6: 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 7: HANDLING AND STORAGE

**Precautions:** Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes. Keep away from incompatibles such as metals, acids.

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

## SECTION 8: 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:** Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

**Personal Protection in Case of a Large Spill:** Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:** TWA: 5 (mg/m<sub>3</sub>) [Canada].

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state and appearance Form</b>	: Solid, granular powder
<b>Odour</b>	: Odorless
<b>Taste</b>	: Not available
<b>Molecular Weight</b>	: Not available
<b>Colour</b>	: White
<b>pH</b>	: Not available
<b>Boiling Point</b>	: Not available
<b>Melting Point</b>	: Not available
<b>Critical Temperature</b>	: Not available
<b>Specific Density</b>	: Not Available
<b>Vapor Pressure</b>	: Not Available
<b>Vapor Density</b>	: Not available
<b>Volatility</b>	: Not Available
<b>Odor Threshold</b>	: Not Available



Water/Oil Dist. Coeff.	: Not Available
Ionicity (in Water)	: Not Available
Dispersion Properties	: Not Available
Solubility	: Easily soluble in water

#### SECTION 10: STABILITY AND REACTIVITY DATA

**Stability:** The product is stable.

**Instability Temperature:** Not available.

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

**Incompatibility with various substances:** Reactive with metals, acids

**Corrosivity:** Non-corrosive in presence of glass.

**Special Remarks on Reactivity:** Methyl Vinyl Ether, Zinc, Reacts violently with Boric acid and Calcium Oxide, Bromine Trifluoride, 2-Furanpercarboxylic acid, boron oxides, solutions attack some metals.

**Special Remarks on Corrosivity:** Not Available

**Polymerization:** Will not occur

#### SECTION 11: TOXICOLOGICAL INFORMATION

**Routes of Entry:** Ingestion, Inhalation.

**Toxicity to Animals:**

LD<sub>50</sub>: Not Available.

**Chronic Effects on Humans:** May cause damage to the following organ: Heart.

**Other Toxic Effects on Humans:** Not Available.

**Special Remarks on Toxicity to Animals:** Not Available.

**Special Remarks on Chronic Effects on Humans:** Not Available.

**Special Remarks on other Toxic Effects on Humans:** Causes skin irritation with possible burning sensation especially if skin is wet or moist. Causes respiratory tract and mucous membrane irritation with burning sensation and pain in nasal cavities, occasional nose bleeding and tickling in the throat. May cause severe gastrointestinal tract irritation with nausea, and vomiting. May cause cardiac disturbances (slowing of heart rate, arrhythmia, tachycardia, heart fibrillation)

#### SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** Not Available.

**BOD 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 13: DISPOSAL CONSIDERATIONS

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

#### SECTION 14: TRANSPORT INFORMATION

**DOT Classification:** Not a DOT controlled material (United States).

**Identification:** Not Applicable.

**Special Provisions for Transport:** Not Available

#### SECTION 15: OTHER REGULATORY INFORMATION



**Federal and State Regulations:** TSCA 8(b) inventory: Exempt from TSCA 8(b) Inventory since it is a hydrate.

**Other Regulations:** Not available.

**Other Classifications:**

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

**DSCL (EEC):** R36.

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

**Health Hazard:** 2

**Fire Hazard:** 0

**Reactivity:** 0

**Personal Protection:** E

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

**Health:** 2

**Flammability:** 0

**Reactivity:** 0

**Specific hazard:**

**Protective Equipment:** Gloves, Lab coat, Safety glasses, Dust respirator - be sure to use an approved/certified respirator or equivalent

#### SECTION 16: OTHER INFORMATION

**References: Full text of H AND R-Statements.**

H319, R36 – Causes serious eye irritation.

**Other Special Considerations:** Not available.

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