

Safety Data Sheet

Calcium Chloride Dihydrate

Section I – Product and Company Identification

Product Name: CALCIUM CHLORIDE.
CaCl-74, CaCl-0827, CaCl-1489
Synonyms: Calcium Chloride, Dihydrate
Chemicals present: See components below
Recommended use: Professional use

Company Identification:
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Section II – Hazards Identification

Hazard classification:

Causes skin irritation (Category 2)
Causes serious eye irritation (Category 2A)
Harmful if swallowed (Category 4)

Signal word:

Warning

Symbol:



Hazard statement:

H315 – Causes skin irritation.
H319 – Causes serious eye irritation.
H302 – Harmful if swallowed.

Precautionary statement(s):

P301 + 310 – IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302 + 352 – IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + 313 – If eye irritation persists get medical advice/attention.
P332 + 313 – If skin irritation occurs: Get medical advice/attention.
P362 + 364 – Take off contaminated clothing and wash it before reuse.

Other hazards which do not result in classification: No additional information available.

Label elements: Safety data sheet available on request.

Section III – Composition/Information on Ingredients

Ingredient Name	Chemical Formula	CAS No.	% by weight
Calcium Chloride Dihydrate	CaCl ₂ .2H ₂ O	10035-04-8	100

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Section IV – First Aid Measures

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.

Symptoms and effects:

Inhalation: Inhaling dust may cause irritation to upper respiratory tract (nose and throat). Nasal mucosal and oropharyngeal erythema.

Skin contact: Skin Irritation. Direct abrasion of skin from solid, erythema and burn from reaction with water. Prolonged contact and occlusion may cause more severe symptoms. Damage is localized to contact areas.

Eye contact: Eye Irritation. Direct abrasion of cornea from solid, erythema and burn from reaction with water, conjunctival swelling and cornea opacification from hypertonic solution and heat. Corneal eye pain, redness, acute corneal thickening or whitening.

Ingestion: Consumption of solids or hypertonic solutions causes nausea, vomiting, and increased thirst.

Immediate medical attention and special treatment:

Symptoms may not appear immediately. In case of accident or feeling of illness, seek medical advice immediately (show the label or SDS where possible).

Section V – Fire Fighting Measures

Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media:

Not known.

Specific hazards arising from the hazardous product:

Not known.

Hazardous combustion products:

Not known.

Special protective equipment and precautions for fire-fighters:

Wear self-contained breathing apparatus for firefighting if necessary.

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Section VI – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

General measures: Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Keep product out of drains, sewers, ditches, and waterways.

Methods and materials for containment and cleaning up:

Containment: Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flames.

Spills: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately. Prevent spills from entering sewers or waterways.

Section VII – Handling and Storage

Precautions for safe handling: Wash thoroughly after handling. Use with adequate ventilation. Do not get on skin or in eyes. Do not ingest or inhale. Always use cool water when dissolving calcium chloride. Heat evolved is significant. Avoid breathing dust, vapor, mist, or gas.

Conditions for safe storage (including incompatible materials): No specific storage is required. Store capped at room temperature. Protect from heat and incompatibles.

Section VIII – Exposure Controls/Personal Protection

Control parameters:

Magnesium chloride Hexahydrate

ACGIH (TLV)	NIOSH (REL)	OSHA (PEL)
N/A	N/A	N/A

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.

Individual protection measures (Personal Protection Equipment):

Eyewear: Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear appropriate protective eyeglasses or chemical safety goggles as described in 29 CFR 1910.133.

Gloves: Protective gloves.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respiratory protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

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Section IX – Physical and Chemical Properties

Physical state:	Solid
Appearance:	White Crystal
Odour:	None
Odour threshold:	No data available
pH:	No data available
Melting point/Freezing point:	175.5°C (347.9°F)
Initial boiling point/boiling range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid; gas):	No data available
Lower flammable/explosive limit:	No data available
Upper flammable/explosive limit:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	0.835
Solubility:	Soluble
Partition coefficient:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available

Section X – Stability and Reactivity

Reactivity:

Nonreactive in normal condition.

Chemical stability:

Stable in normal condition.

Possibility of hazardous reactions:

None in normal condition.

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

Incompatible materials: Reactive with metals, acids.

Hazardous decomposition products: Hydrogen chloride gas, calcium oxides.

Hazardous polymerization: No data available.

Section XI – Toxicological Information

Route of exposure:

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Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

Symptoms related to the physical, chemical and toxicological characteristics:

Skin: Not expected to cause skin irritation for short-term exposure. Irritation can be expected from a long-term exposure.

Eyes: May causes irritation to the eyes.

Inhalation: Formation of mists may by slightly irritating to the nose and throat.

Ingestion: Not toxic by ingestion. May cause gastrointestinal discomfort.

Effects of chronic exposure:

Not known.

Acute toxicity:

ACUTE ANIMAL TOXICITY DATA:

Chemical Substance	Oral LD50 (mg/kg)
Calcium Chloride	1000mg/kg [Rat]

Carcinogenicity: CAS# 10035-04-8: Not listed by ACGIH, IARC, NTP, or CA Proposition 65.

Reproductive toxicity: Not available.

Teratogenicity: Not available.

Mutagenicity: Not available.

Toxicologically synergistic products: Not available.

Section XII – Ecological Information

Ecotoxicity: No additional information available.

Persistence and degradability: No additional information available.

Bioaccumulative potential: No additional information available.

Mobility in soil: No additional information available.

Other adverse effects: No additional information available.

Section XIII – Disposal Considerations

Waste disposal: This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

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Section XIV – Transport Information

UN number: No data available

UN proper shipping name: No data available

Transport hazard class(es): No data available

Packing group: No data available

Environmental hazards: No data available.

Special shipping information: No data available

Section XV – Regulatory Information

No data available

Section XVI – Other Information

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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