

## Safety Data Sheet

### Section 1: Identification

**Product Name:** Calcium Chloride

**Product Form:** Solid

**Recommended Uses:** Ice Melt

**Company Identification:**

Origination Inc.  
1300 McKnight Road North  
Maplewood, MN 55119

**For information, call:** 1-800-625-6079

**Emergency Number:** 1-800-625-6079

**For CHEMTREC assistance, call:** 1-800-424-9300

**For International CHEMTREC assistance, call:** 703-527-3887

### Section 2: Hazard(s) Identification

**Classification of the Substance or Mixture**

**GHS-US classification:**

Skin Irrit. Category 3

Eye Irrit. Category 2A

Acute Toxicity, oral Category 4

**Hazard pictograms (GHS-US):** GHS07



**Signal word (GHS-US):** Warning

**Hazard statements (GHS-US):**

**Physical Hazards:** None

**Health Hazards:**

H302 Harmful if swallowed

H315 Causes skin mild irritation

H319 Causes serious eye irritation

**Environmental Hazards:** None

**Precautionary statements (GHS-US):**

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

P264 - Wash ... thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection /face protection

P301+310+331: If swallowed: USA immediately call the National Poison Center at 800-222-1222

P305+351: If in eyes rinse cautiously with water for at least 15 minutes

P403+233: Store in a well-ventilated place, Keep container tightly closed when not in use

**Other hazards:** No additional information available.

**Unknown acute toxicity (GHS-US):** No data available.

## Section 3: Composition / Information on Ingredients

**Substance:** Not Applicable

Mixture Name	Product Identifier	%	Other Identifiers
Calcium Chloride	(CAS No) 10043-52-4	94-100	Calcium dichloride

## Section 4: First Aid Measures

**First-aid measures general:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid measures after inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.

**First-aid measures after skin contact:** Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see ... on this label).

**First-aid measures after eye contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**First-aid measures after ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

**Most important symptoms and effects, both acute and delayed:**

**Symptoms/injuries after inhalation:** May cause respiratory irritation.

**Symptoms/injuries after skin contact:** Causes skin irritation.

**Symptoms/injuries after eye contact:** Causes eye irritation.

**Indication of any immediate medical attention and special treatment needed:** No additional information available.

## Section 5: Fire Fighting Measures

**Extinguishing Media**

**Suitable extinguishing media:** Foam. Dry powder. Carbon dioxide. Water spray. Sand.

**Unsuitable extinguishing media:** Do not use a heavy water stream.

**Special hazards arising from the substance or mixture:** No additional information available.

**Advice for Firefighters**

**Firefighting instructions:** Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

**Protection during firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

## Section 6: Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures For non-emergency personnel**

**Emergency procedures:** Evacuate unnecessary personnel.

## For emergency responders

**Protective equipment:** Equip cleanup crew with proper protection.

**Emergency procedures:** Ventilate area.

**Environmental precautions:** Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

**Methods and material for containment and cleaning up:** On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

**Reference to other sections:** See Heading 8. Exposure controls and personal protection

## Section 7: Handling and Storage

**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.

**Hygiene measures:** Wash thoroughly after handling.

### Conditions for Safe Storage, Including Any Incompatibilities

**Storage conditions:** Store in a cool, dry, well-ventilated area, out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel.

**Conditions to avoid:** Exposure to moisture may affect product quality.

**Incompatible materials:** Strong acids, Borane/boron oxides, Zinc, Calcium oxide, Methyl vinyl ether, Calcium Chloride is attacked by bromine trifluoride.

**Specific end use(s):** No additional information available.

## Section 8: Exposure Controls, Personal Protection

**Control Parameters:** No additional information available

### Exposure Controls

**Personal protective equipment:** Avoid all unnecessary exposure.

**Hand protection:** Wear protective gloves.

**Eye protection:** Chemical goggles or safety glasses.

**Skin and body protection:** Wear suitable protective clothing.

**Respiratory protection:** Wear appropriate mask.

**Other information:** Do not eat, drink or smoke during use.

## Section 9: Physical and Chemical Properties

### Information on basic physical and chemical properties:

**Physical state:** Solid

**Appearance:** Pellet

**Colour:** White

**Odour:** Characteristic

**Odour threshold:** No data available

**pH:** 9

**Relative evaporation rate (butylacetate=1):** No data available

**Melting point:** No data available

**Freezing point:** No data available

**Boiling point:** 3038 F 1670 C

**Flash point:** No data available

**Auto-ignition temperature:** No data available

**Flammability (solid, gas):** No data available

**Vapour pressure:** No data available

**Relative vapour density at 20 °C:** No data available

**Relative density:** 1.3 (Water = 1)

**Solubility:** Water Soluble

**Log Pow:** No data available

**Log Kow:** No data available

**Viscosity, kinematic:** No data available

**Viscosity, dynamic:** No data available

**Explosive properties:** No data available

**Oxidising properties:** No data available

**Explosive limits:** No data available

## Section 10: Stability and Reactivity

**Reactivity:** No additional information available

**Chemical stability:** Stable under ordinary conditions of use and storage.

**Conditions to avoid:** Exposure to moisture may affect product quality.

**Incompatible materials:** Strong acids, Borane/boron oxides, Zinc, Calcium oxide, Methyl vinyl ether, Calcium Chloride is attacked by bromine trifluoride.

**Hazardous Decomposition:** When heated to decomposition, calcium chloride emits toxic fumes of hydrogen chloride.

**Hazardous Polymerization:** Violent polymerization occurs when mixed with Methyl Vinyl Ether.

## Section 11: Toxicological Information

**Routes of Entry:** Absorbed through skin. Inhalation. Ingestion.

**Toxicity to Animals:** Acute oral toxicity (LD50): 1000 mg/kg [Rat].

**Chronic Effects on Humans:**

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

**Other Toxic Effects on Humans:** Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

**Special Remarks on Toxicity to Animals:** Lowest Published Lethal Dose: LDL [Rabbit] - Route: Oral; Dose: 1384 mg/kg

**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:** May cause severe irritation and possible burns, especially if skin is wet. Contact with dry skin causes mild irritation. Contact of solid with moist/wet skin or skin contact with strong solutions may cause marked irritation or possible burns.

**Eyes:** May cause severe irritation, possible transient corneal injury, and possible eye burns.

**Inhalation:** May cause severe irritation of the upper respiratory tract with pain, inflammation and possible burns.

**Ingestion:** May cause severe gastrointestinal (digestive) tract irritation with nausea, vomiting and possible burns. May affect cardiovascular system (cardiac disturbances, slow heart beat), behavior (seizures), metabolism, blood, and brain, respiration (rapid respiration).

**Chronic Potential Health Effects:** effects may be delayed.

## Section 12: Ecological Information

**Ecotoxicity:** Ecotoxicity in water (LC50): 100 mg/l 96 hours [Fish].

**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 products of degradation are less toxic than the product itself.

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

## Section 13: Disposal Considerations (non-mandatory)

**Waste disposal recommendations:** Dispose in a safe manner in accordance with local/national regulations.

**Ecology - waste materials:** Avoid release to the environment.

## Section 14: Transport Information

**In accordance with DOT:** Not regulated for transport.

**Transport by sea:** No additional information available

**Air transport:** No additional information available

## Section 15: 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 16: Additional Information

**Prepared by:** Origination, Inc.

**Prepared:** November 2016

### Disclaimer:

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