

Safety Data Sheet

Section 1: Identification

Product Name: Calcium Chloride Granular

Product Form: Solid

Recommended Uses: Ice Melt

Company Identification:

Origination, LLC
1802 Wooddale Drive, Suite 200
Woodbury, MN 55125

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: Granular

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, LLC

Prepared: February 4, 2021

Disclaimer:

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 Origination 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 Origination has been advised of the possibility of such damages.