

MSDS - Material Safety Data Sheet

Product Name: Calcium Chloride Ice Melt

MSDS No.: 220

I. Basic Information:

Manufacturer: Dow Chemical
Address:
City, ST Zip: Midland, MI 48674



Last Update:

Chemical State: Liquid Gas Solid

Chemical Type: Pure Mixture

1	Health
0	Flammability
0	Reactivity
B	Pers. Protection

II. Ingredients:

CAS No.	Chemical Name	% Range	EHS	NTP	IARC	SARA SUB Z 313	OSHA PEL	ACGIH TLV	Other Limits
10043524	Calcium chloride	90-97%							
7447407	Potassium chloride	2-3%							
7647145	Sodium chloride	1-2%							
10476854	Strontium chloride	0-1%							
7732185	Water								

III. Hazardous Identification:

Hazard Category:

Acute Chronic Fire Pressure Reactive

Hazardous Identification Information:

Pellets may cause slight eye irritation. Dust may cause severe irritation with corneal injury. Effects may be slow to heal. When dissolving, the heat produced may cause more intense effects as well as thermal burns. Short single exposure not likely to cause significant skin irritation. Prolonged or repeated exposure may cause skin irritation, even a burn. May cause more severe response if skin is damp or if material is confined to skin. May cause more severe response if skin is abraded.

IV. First Aid Measures:

Route(s) of Entry:

Eyes, skin, ingestion, inhalation.

Health Hazards (Acute and Chronic):

Systemic and other effects-No relevant information found.

Signs and Symptoms:

Pellets may cause slight eye irritation. Dust may cause severe irritation with corneal injury. Effects may be slow to heal. When dissolving, the heat produced may cause more intense effects as well as thermal burns. Short single exposure not likely to cause significant skin irritation. Prolonged or repeated exposure may cause skin irritation, even a burn. May cause more severe response if skin is damp or if material is confined to skin. May cause more severe response if skin is abraded.

Medical Conditions Generally Aggravated by Exposure:

MSDS - Material Safety Data Sheet

Product Name: Calcium Chloride Ice Melt

MSDS No.: 220

Emergency and First Aid Procedures:

Eyes-Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel. Skin-Wash off in flowing water or shower. Ingestion-If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel. Inhalation-Remove to fresh air if effects occur. Consult a physician. Note to physician-If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Supportive care. Treatment based on judgement of the physician

Other Health Warnings:

V. Fire Fighting Measures:

Flash Point: NA **Lower Explosive Limit:** NA **Upper Explosive Limit:** NA

Fire Extinguishing Media: This material does not burn. If exposed to fire from another source, use suitable extinguishing agent for that fire.

Special Fire Fighting Procedures:

Keep people away. Isolate fire area and deny unnecessary entry.

Unusual Fire and Explosion:

None.

VI. Accidental Release Measures:

Steps to be Taken in Case Material is Released or Spilled:

Protect people. Isolate area. Avoid contact with eyes and skin. May be a slipping hazard. Stop leak if it can be done safely. Wash exposed body areas thoroughly after handling. Use appropriate safety equipment. Protect the environment-For small spills-Losses incidental to correct applications of this product in its intended uses are not expected to be harmful to the environment. For large spills-Avoid contamination of drinking water, natural water, ground water or any waterway. Losses incidental to correct applications of the product in its intended uses are not expected to be harmful to the environment. Cleanup-For small spills-Contain if possible. Collect material in a suitable and properly labeled container. Flush residue with plenty of water. For large spills-Dike and transfer to suitable and properly labeled containers, flush residue with plenty of water.

VII. Handling and Storage:

Precautions to be Taken:

Handling-Heat developed during diluting or dissolving is very high. Use cool water when diluting or dissolving. Storage-Keep container tightly closed when not in use. Store in dry place. Protect from atmospheric moisture.

Other Precautions:

VIII. Exposure Controls/Personal Protection:

Ventilation Requirements:

Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

Personal Protective Equipment:

Eye/Face Protection-Use chemical goggles. Skin-When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material. Selection of specific items such as faceshield, gloves, boots, apron, or full body suit will depend on operation. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse. If hands are cut or scratched, use glove impervious to this material even for brief exposures.

MSDS - Material Safety Data Sheet

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MSDS No.: 220

IX. Physical and Chemical Properties:

Boiling Point: >1500F **Melting Point:** 1424F **Evaporation Rate:** ND
Vapor Pressure (mm Hg.): .005mg **Vapor Density (AIR = 1):** ND
Solubility In Water: Very soluble
Appearance and Odor: White solid pellet. Odorless.
Other Information:

X. Stability and Reactivity:

Stability:

Stable. Hygroscopic.

Incompatibility (Materials to Avoid):

Corrosive to some metals. Corrosive when wet. Flammable hydrogen may be generated from contact with metals such as zinc, or sodium. Avoid contact with sulfuric acid. Heat is generated when mixed with water. Spattering or boiling can occur.

Decomposition/By Products:

Does not decompose.

Hazardous Polymerization:

Will not occur.

XI. Toxicological Information:

Acute-Skin-The LD50 for skin absorption in rabbits is >5000 mg/kg.

Ingestion-The oral LD50 for rats is between 967-1668 mg/kg.

Mutagenicity (effects on genetic material): For CACL2, in vitro mutagenicity studies were negative.

XII. Ecological Information:

Environmental fate-Movement and partitioning: Partitioning from water to n-octanol is not applicable. Degradation and Persistence-Inhibitory concentration (IC50) in OCECD activated sludge respiration inhibition test is greater than 1000 mg/l.

XIII. Disposal Considerations:

All disposal methods must be in compliance with all federal, state and local regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. The Dow Chemical Company has no control over the management practices of manufacturing processes of parties handling or using this material. The information presented here pertains only to the product as shipped in its intended condition as described in MSDS section 2.

XIV. Transport Information:

This product is not regulated by D.O.T. when shipped domestically by land.

XV. Regulatory Information:

MSDS - Material Safety Data Sheet

Product Name: Calcium Chloride Ice Melt

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SARA 313 Information-To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements. SARA Hazard Category-This product has been reviewed according to the EPA "Hazard Category" promulgated under Sections 311, 312 of the superfund amendment and reauthorization act of 1986 and is considered, under applicable definitions, to meet the following categories: An immediate health hazard due to the possibility of eye or skin irritation.

TSCA-All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory. State Right to Know-This product is not known to contain any substances subject to the disclosure requirements. OSHA Hazard Communication Standard-This product is a Hazardous Chemical as defined by OSHA hazardous communication standard. This product has been categorized as a hazardous chemical due to the possibility of eye or skin irritation.

XVI. Other Information:

EMERGENCY TELEPHONE NUMBER 517-636-4400

Distributed by: The Janton Company 1288 N. High St. Columbus, Ohio 43201
G&L Supply Company 139 N. Diamond St. Mansfield, Ohio 44902