



**SIMCO CALCIUM CHLORIDE PELLETS
MATERIAL SAFETY DATA SHEET**

Calcium Chloride Pellets 77%		Issue Date: 07/16/2010 Print Date: 07/20/2009 First Issued: 12/01/1998						
1. PRODUCT AND COMPANY IDENTIFICATION:								
1.1 Name of the chemical substance:	Calcium Chloride Flakes							
1.2 Commercial name:	77% Dihydrate Calcium Chloride Flakes, Technical grade							
1.3 Company Identification:	Snow and Ice Management, Inc. 2020 Knott Street Pittsburgh, PA 15233 USA							
1.4 CHEMTREC (24-Hr Emergency):	U.S. Toll Free (800) 424-9300 International +1 703-527-3887							
1.5 Non-Emergency Service:	412-321-7669							
1.6 Company Fax Number:	412-321-7663							
2. COMPOSITION, INFORMATION ON INGREDIENTS:								
2.1 Industrial Non-proprietary Name:	Calcium Chloride Flakes							
2.2 Chemical Formula:	CaCl ₂							
2.3 CAS Number:	<table style="width: 100%; border: none;"> <tr> <td style="padding-right: 20px;">Calcium chloride</td> <td>10035-04-8</td> </tr> <tr> <td>Water</td> <td>7732 -18-5</td> </tr> <tr> <td>Sodium chloride</td> <td>7647 -14-5</td> </tr> </table>		Calcium chloride	10035-04-8	Water	7732 -18-5	Sodium chloride	7647 -14-5
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3. HAZARDS IDENTIFICATION:								
3.1 Hazards of product:	WARNING! Causes eye irritation. May cause skin irritation. May be harmful if swallowed.							
3.2 OSHA Hazard Standard:	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.							
3.3 Potential Health Effects:								
3.3.1 Eye Contact:	For dust: May cause severe eye irritation. May cause corneal injury. Effects may be slow to heal.							
3.3.2 Skin Contact:	Brief contact is essentially nonirritating to skin. Prolonged contact may cause skin irritation, even a burn. Not classified as corrosive to the skin according to DOT guidelines. May cause more severe response if skin is damp. May cause more severe response if skin is abraded (scratched or cut). May cause more severe response on covered skin (under clothing, gloves).							
3.3.3 Skin Absorption::	Prolonged skin contact is unlikely to result in absorption of harmful amounts.							
3.3.4 Inhalation:	Dust may cause irritation to upper respiratory tract (nose and throat). Vapors are unlikely due to physical properties.							
3.3.5 Ingestion:	Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing							

4. FIRST AID MEASURES:	
4.1 Skin Contact:	Remove contaminated clothing and shoes. Wash affected area with soap or mild detergent.
4.2 Eye Contact:	Immediately flush eyes thoroughly with large amounts of water for 15-20 minutes. Hold eyelids open during flushing. If irritation or adverse symptoms develop, seek medical attention.
4.3 Inhalation:	Remove from exposure area to fresh air. Give artificial respiration ONLY if breathing has stopped. Obtain medical attention immediately.
4.4 Ingestion:	Do not attempt to give anything by mouth to an unconscious person. If victim is alert and not convulsing, rinse mouth out and give ½ to 1 glass of water to dilute material. Get medical attention.
4.5 Notes to Physician:	Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal/esophageal control if lavage is done. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.
5. FIRE FIGHTING MEASURES:	
5.1 Flash Point:	Not applicable
5.2 Extinguishing Media:	This material does not burn. If exposed to fire from another source, use suitable extinguishing agent for that fire.
5.3 Fire Fighting Procedures:	Move container(s) from fire area if you can do so without risk. Apply cooling water to sides of containers that are exposed to flames until well after the fire is out. Extinguish fire using agent suitable for type of surrounding fire and/or chemicals. Do not use water directly on material. Avoid breathing dusts/vapors. Keep upwind. Use self-contained breathing apparatus and protective clothing. Dike area to prevent runoff and contamination of water sources.
5.4 Explosion Hazard:	Negligible fire hazard when exposed to heat or flame.
5.5 Unusual Fire and Explosion Hazards:	Heat is generated when product mixes with water.
5.6 Products of Combustion:	Non-combustible
6. ACCIDENTAL RELEASE MEASURES:	
6.1 Personal Precautions:	Isolate area. Keep unnecessary and unprotected personnel from entering the area. Use appropriate safety equipment.
6.2 Environmental Precautions:	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater, as it could result in excessive salinity.
6.3 Evacuation and Safety:	Wear appropriate protective gear for the situation.
6.4 Cleanup and Disposal:	Minimize air borne spreading of dust. For dry spills place material in covered, clean, dry container for disposal.

7. HANDLING AND STORAGE:	
7.1 General Handling:	Heat developed during diluting or dissolving is very high. Use cool water when diluting or dissolving (temperature less than 80°F, 27°C). Avoid contact with eyes, skin, and clothing. Do not swallow. Wash thoroughly after handling. Keep container closed.
7.2 Storage:	Observe all federal, state, and local regulations when storing this product. Store in a covered, clean and dry container away from incompatible materials.
8. EXPOSURE CONTROLS / PERSONAL PROTECTION:	
8.1 Eye/Face Protection:	Use safety glasses. For dusty operations or when handling solutions of the material, wear chemical goggles.
8.2 Skin Protection:	Wear appropriate protective (impervious) clothing. Leather work boots and/or leather products will dehydrate with resultant shrinkage and possible destruction.
8.3 Hand and Feet protection:	Use gloves chemically resistant to this material. If hands are cut or scratched, use gloves chemically resistant to this material even for brief exposures. Examples of preferred glove barrier materials include: Neoprene. Polyvinyl chloride ("PVC" or "vinyl"). Nitrile/butadiene rubber ("nitrile" or "NBR"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.
8.4 Body protection:	Wear appropriate protective (impervious) clothing. Leather work boots and/or leather products will dehydrate with resultant shrinkage and possible destruction.
8.5 Respiratory Protection:	Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air-purifying respirator. In dusty or misty atmospheres, use an approved particulate respirator.
9. PHYSICAL AND CHEMICAL PROPERTIES:	
9.1 Chemical Properties:	77%
CaCl ₂ – Flakes	4.00% max
Total Alkali Chlorides (as NaCl ₂)	0.50% max
Total Magnesium (as MgCl ₂)	0.50% max
Other impurities	0.10% max
Calcium Hydroxide	0.07% max
Sulfate (as SO ₄)	0.001% max
Heavy Metals (as Pb)	0.003% max
Iron (as Fe)	0.10% max
Calcium Carbonate	
9.2 Physical Properties:	
Appearance	White Flake
Bulk Density	0.80g/cm ³ (20 C)
Sizing Range	1 – 6mm 95%min
Odor	Odorless

10. STABILITY AND REACTIVITY:	
10.1 Stability:	Stable under ordinary conditions of use and storage. Substance will pick up moisture from the air and go into solution if exposed in open containers.
10.2 Hazardous Decomposition Products:	Emits toxic chlorine fumes when heated to decomposition. May form hydrogen chloride in presence of sulfuric or phosphoric acids or with water at elevated temperatures.
10.3 Hazardous Polymerization:	Will not occur.
10.4 Incompatibilities:	Methyl vinyl ether, water, zinc, bromine trifluoride, mixtures of lime and boric acid, barium chloride, and 2-furan percarboxylic acid. Metals will slowly corrode in aqueous calcium chloride solutions. Aluminum (and alloys) and yellow brass will be attacked by calcium chloride.
10.5 Conditions to Avoid:	Incompatibles.
11. TOXICOLOGICAL INFORMATION:	
11.1 Developmental Toxicity:	For the major component(s): Did not cause birth defects or any other fetal effects in laboratory animals.
11.2 Local Effects:	Calcium Chloride is an alkaline compound, highly hygroscopic, dusty in the form of powder. Dusts and mists will cause irritation of nasal mucosa, burning sensation and redness of eyes, skin dryness and irritation of gastrointestinal tract.
11.3 Risks to living organisms:	LD ₅₀ , Rat 900 - 2,100 mg/kg LD ₅₀ , Rabbit > 5,000 mg/kg
12. ECOLOGICAL INFORMATION:	
12.1 Environmental Summary:	No data available.
12.2 Degradability:	Product will not biodegrade or accumulated.
13. DISPOSAL INFORMATION:	
Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.	
14. TRANSPORT INFORMATION:	
14.1 DOT Non-Bulk:	Not Regulated
14.2 DOT Bulk:	Not Regulated
14.3 IMDG:	Not Regulated
14.4 ICAO/IATA:	Not Regulated
15. REGULATORY INFORMATION:	
15.1 OSHA Hazard Communication Standard:	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
15.2 Immediate (Acute) Health Hazard:	Yes
15.3 Delayed (Chronic) Health Hazard:	No
15.4 Fire Hazard:	No
15.5 Reactive Hazard:	No

15.6 Sudden Release of Pressure Hazard:	No
15.7 IMDG:	Not Regulated
15.8 ICAO/IATA:	Not Regulated
15.9 US. Toxic Substances Control Act:	All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30
15.10 CEPA - Domestic Substances List	All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.
* To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.	
* This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.	
* All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30	
* All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.	
16. OTHER INFORMATION:	
Recommended Uses and Restrictions:	
A calcium chloride product - SIMCO recommends that you use this product in a manner consistent with the listed use. If the intended use is not consistent with SIMCO's stated use, please contact Customer Service.	