

# PROFESSIONAL STRENGTH

94% Pure CaCl<sub>2</sub> Pellets

Form No. SJ-MELT-S.D.S-R2

## SAFETY DATA SHEET (S.D.S)

Snow Joe®, LLC



FAST ACTING • INSTANT HEAT • SAFER ON SIDEWALKS \*

\*when used as directed

## CALCIUM CHLORIDE PELLETS

Premium Snow + Ice Melter

### Section 1: Product Information

Product Name	-----	Calcium Chloride 94%
Appearance	-----	White flakes/pellet/powder
Purity as CaCl <sub>2</sub>	-----	Specification: 94% min., Result: 95.6
Alkalinity as Ca(OH) <sub>2</sub>	-----	Specification: 0.25% max., Result: 0.13
Total Alkali Chloride (as NaCl)	-----	Specification: 5.0% max., Result: 2.8
Water Insoluble	-----	Specification: 0.25% max., Result: 0.02
Fe	-----	Specification: 0.006 max., Result: 0.002
PH	-----	Specification: 7.5-11.0, Result: 8.8
Total Magnesium (as MgCl <sub>2</sub> )	-----	Specification: 0.5% max., Result: 0.25
Sulfate (as CaSO <sub>4</sub> )	-----	Specification: 0.05% max., Result: 0.03

### Section 2: Product + Company Identification

Trade Name	-----	Calcium Chloride
Chemical Name and/or Synonym	-----	Calcium Chloride, Anhydrous
Formula	-----	CaCl <sub>2</sub> CAS No. 10043-52-4
Product Use	-----	Delcer, dust control, mud drilling lubricant, freeze-proofing of ores and aggregates, thawing agent, concrete conditioner

Food grade material is used as a food additive

### Section 3: Composition + Data on Components

Chemical Characterization Description	-----	Calcium Chloride-Granules (10043-52-4)
Identification Number(s)	-----	None allocated

### Section 4: Hazards Identification

Inhalation	-----	Dust or mist inhalation may irritate nose, throat and lungs
Ingestion	-----	Low in toxicity. May irritate gastrointestinal tract and cause nausea and vomiting
Skin	-----	May cause skin irritation. Prolonged contact when moisture is present may result in superficial burns. Contact with abraded skin or cuts can cause severe necrosis.
Eyes	-----	May irritate or burn eyes

## Section 5: First Aid Measures

Inhalation	-----	Promptly remove to fresh air. Get medical attention.
Ingestion	-----	If conscious, immediately give 2 to 4 glasses of water, and induce vomiting under medical supervision.
Skin	-----	Remove contaminated clothing. Wash with plenty of soap and running water. Get medical attention if irritation persists.
Eyes	-----	Flush eyes promptly with plenty of running water, continuing at least 15 minutes. Get medical attention.
Respiratory Protection	-----	For dusty or misty conditions wear NIOSH approved dust or mist respirator.

## Section 6: Fire Fighting Measures

Conditions of Flammability	-----	Not applicable
Flash Point Method	-----	Not applicable
Hazardous Combustion Products	-----	None
% By Vol in Air	-----	Upper Flammable Limit: n/a Lower Flammable Limit: n/a
Auto Ignition Temperature	-----	°C
Explosion Hazards	-----	See section E – Incompatibility
Sensitivity to Mechanical Impact	-----	Not applicable
Sensitivity to Static Discharge	-----	Not available
Fire Extinguishing Procedures	-----	Use extinguishing media appropriate for surrounding fire.

For fire fighting wear NIOSH approved self contained breathing apparatus.

## Section 7: Accidental Release Measures

Spill or Leak (Always wear personal protective equipment)

Shovel up dry chemical and place in metal drum with cover. Cautiously spray residue with plenty of water. Keep contaminated water from entering sewers and water course.

## Section 8: Handling + Storage

Storage	-----	Cool, dry area. Prolonged storage may cause product to cake and become wet from atmospheric moisture.
Normal Handling	-----	Avoid contact with eyes, skin or clothing. Avoid breathing dust. Use good personal hygiene and housekeeping.
Ventilation	-----	Provide general and/or local exhaust ventilation to maintain dust or fume levels below exposure limits. Eye wash facility should be provided in storage and general work area.

## Section 9: Exposure Controls + Personal Protection

Eyes and Face	-----	For dusty or misty conditions, or when handling solutions where there is reasonable probability of eye contact, wear chemical safety goggles and hard hat. Under these conditions do not wear contact lenses.
Hands/Arms and Body	-----	As a minimum, wear long-sleeved shirt, trousers, rubber boots and gloves for routine product use. Cotton gloves permitted for dry product, impervious gloves when using solutions.

## Section 10: Physical + Chemical Properties

Material is at Normal Conditions	-----	Solid
Appearance and Colour	-----	White Granules
Odour	-----	Odourless
Boiling Point	-----	>1600
Freezing Point	-----	Not applicable
Melting Point	-----	Not applicable
Specific Gravity		
Vapor Density (Air=1)	-----	Not applicable
Vapor Pressure	-----	(mm Hg @ 20 ) Not applicable
Flash Point (Closed cup)	-----	Not Available
Solubility in Water	-----	97.7 g/100 ml 036 g/100 ml 60
PH	-----	Neutral to slightly alkaline
Evaporation Rate (Ether=1.0)	-----	Not applicable
% Volatiles by Volume	-----	Not applicable
Molecular Wght	-----	Not applicable

## Section 11: Stability + Reactivity

Stability: Stable Conditions to Avoid	-----	Not Applicable
Incompatibility	-----	Reacts violently with bromine trifluoride (BrF <sub>3</sub> ), or a mixture of boron trioxide and calcium oxide (B <sub>2</sub> O <sub>3</sub> +CaO). Sulfuric acid, yields hydrogen chloride gas, which is corrosive, irritating and reactive. Water-reactive materials such as sodium causes an exothermic reaction. Methyl vinyl ether starts runaway polymerization reaction. Zinc as in galvanized iron yield hydrogen gas with solutions, which may explode under these conditions.
Hazardous Decomposition Products	-----	Fumes of Chlorides (C1-) are given off at temperatures above 1600.
Hazardous Polymerization	-----	Will not occur
Other Precautions	-----	Will undergo violent polymerization with methyl vinyl ether. The anhydrous, monohydrate, dihydrate and tetrahydrate forms of calcium chloride, when dissolved in water, product considerable amounts of heat.

## Section 12: Toxicological Information

Acute Toxicity	-----	Moderately toxic LD50 (oral-rat): 1000 mg/kg LD50 (oral-mouse): 1940 mg/kg
Chronic Toxicity	-----	Not applicable
Exposure Limits	-----	Ontario Ministry of Labour Time-Weighted average exposure value (TWAEV) for nuisance particulate 10 mg/m <sup>3</sup>

## Section 13: Ecological Information:

Degradability	-----	Not applicable
Aquatic Toxicity	-----	Harmful to aquatic life at concentrations greater than 500 ppm. CaCl <sub>2</sub> does not bioaccumulate. TLM 96>1000 mg/l

## Section 14: Disposal Considerations

Waste Disposal ----- Consistent with the requirements of local waste disposal authorities

## Section 15: Transport information

Not a hazardous material for transportation.

DOT Regulation

Hazard Class ----- None

Land Transport ADR/RID

ADR/RID class ----- None

Maritime Transport IMDG

IMDG Class ----- None

Air Transport ICAO-TI and IATA-DGR

ICAO/IATA Class ----- None

Transport/Additional Information ----- Not dangerous according to the above specifications.

## Section 16: Regulations

National Regulations ----- All components of this product are not listed in the Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.

U.N.NO. ----- None allocated

DG Class ----- None allocated

Sub Risk ----- None allocated

HAZCHEM ----- None allocated

Poison Schedule ----- None allocated

## Section 17: Other Information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.



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