



MATERIAL SAFETY DATA SHEET

CALCIUM CHLORIDE

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SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Chemical Identity: Calcium Chloride (CaCl₂)
Other Names: Calcium Chloride Prills or Powder.
Registration Numbers: REACH: 01-2119494219-28-0016
CAS: 10043-52-4
EINECS: 233-140-8
EC Index Number: 017-013-00-2
Common Uses: Road de-icing, dust suppression, cement accelerator.

SECTION 2 - HAZARDS IDENTIFICATION

Irritating to eyes with possible burns on prolonged contact. Solid may cause mild irritation and dry skin.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Component	Typical Contents	EC Number	CAS number	Classification Regulation (EC) No. 1278/2008
Calcium Chloride	94-97%	233-140-8	10043-52-4	Cat. 2, H319
Sodium Chloride	0-2%	231-598-3	7647-14-5	Nc
Potassium Chloride	0-3%	231-211-8	7447-40-7	Nc
Calcium Bromide	0-2.6%	232-164-6	7789-41-5	Nc

SECTION 4 - FIRST AID MEASURES

Symptoms and effects:

Inhalation:	Inhalation of dust may irritate the respiratory system.
Skin:	May cause moderate skin irritation.
Eyes:	May cause severe irritation with a risk of irreversible eye damage if the eye is not washed out thoroughly.
Ingestion:	May cause irritation of the oesophagus and the stomach.



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First aid:

Inhalation:	Remove from exposure area to fresh air immediately. Get medical attention, if needed.
Skin:	Remove contaminated clothing and wash off skin with water. Get medical attention, if needed. Clean clothing before re-use.
Eyes:	Remove contact lenses if present. Immediately wash eyes with wash solution or water for 15 minutes. Get medical attention if necessary.
Ingestion:	Do not induce vomiting. Wash out mouth with water and give plenty to drink. Get medical attention if necessary.

SECTION 5 - FIRE FIGHTING MEASURES

The product is non-flammable and is not an explosion hazard. Choose extinguishing media depending on surrounding fire. All extinguishing media are allowed.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Risks and spills:	Small spillage can be washed away with water, for larger spillage see Section 13.
Protective equipment:	Appropriate protective (impervious) clothing.

SECTION 7 - HANDLING AND STORAGE

Handling:	Avoid formation of dust. Avoid contact with eyes and skin and wash hands thoroughly after working with the product.
Storage:	Preferably store in a cool, dry place.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls:	Due to the low degree of health hazard anticipated in industrial handling or use, no special precautions are required.
Personal protection:	
Respiratory:	In case of dust, dust mask.
Hand:	Protective gloves.
Eyes:	Safety glasses.
Skin:	Normal working clothes are suitable.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Relative density:	2.15
pH:	7-11 (aqueous solution 10%)
Appearance:	Solid, white and odourless granular or powder material.
Solubility:	Very soluble in water, liberating heat.
Decomposition:	N/A
Vapour pressure:	0.1Pa at 20°C



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SECTION 10 - STABILITY AND REACTIVITY

Stability:	Product is stable under normal storage and use conditions.
Conditions to avoid:	Strong reducing and oxidising agents.
Materials to avoid:	Calcium Chloride may cause pitting and corrosion of some grades of stainless steel. High temperature and stress conditions can promote stress corrosion cracking.
Hazardous decomposition products:	None when used in normal conditions.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute toxicity:	LD ₅₀ Oral (rat): 2,000 mg / Kg.
Irritation:	See Section 4 and Section 8.
Sensitisation:	Not applicable.
Other toxicological effects:	None, as far as is known.
Appraisal:	Calcium Chloride is not acutely toxic by inhalation or ingestion.

SECTION 12 - ECOLOGICAL INFORMATION

Calcium chloride is made from naturally occurring minerals, which are low in toxicity and should present no unusual hazards to the environment under most circumstances. Users of calcium chloride should abide by all local and national laws and regulations concerning air and water discharges.

SECTION 13 - DISPOSAL CONSIDERATIONS

Small amounts of calcium chloride can be washed away with water. For large amounts always comply with local and national laws and regulations.

Packaging disposal – empty bags can be disposed for recycling or destruction, according to local and national laws and regulations.

SECTION 14 - TRANSPORT/LABEL INFORMATION

Not regulated for transport.

SECTION 15 - REGULATORY INFORMATION

Symbol:	Xi	Irritant
R Phrases:	R36	Irritating to eyes
S Phrases:	S22	Do not breath dust
	S24	Avoid contact with skin

SECTION 16 - OTHER INFORMATION

For more information contact the address in Section 1. The information contained in this Material Safety Data Sheet is believed to be reliable. No guarantee implied or expressed regarding the accuracy of this information or the use of the product since the conditions for use are beyond our control.

Nothing contained in this document should be construed as a recommendation to use this product in conflict with existing patents covering any material for its use.