

SnowClear — Safety Data Sheet

Prilled calcium chloride ice and snow melting compound

Supplied by: Chemical Solutions, Cottesmore House, 42 Kennel Lane, Fetcham, Surrey · Tel 0845 2500 943

Revision: February 2008 · **Prepared in accordance with** Directive 91/155/EEC · **Conforms to** CHIP 3 (2002)

SnowClear Safety Data Sheet (Calcium Chloride De-Icer)

This safety data sheet (SDS) covers **SnowClear**, the professional non-salt de-icer supplied by **Chemical Solutions**. SnowClear is a prilled calcium chloride ice and snow melting compound, supplied in 20 kg tubs or in pallets of 30 × 20 kg tubs. The information below is provided to support COSHH assessments and the safe handling, storage, use and disposal of SnowClear in commercial, industrial and public-sector workplaces.

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1. Identification of the product and the supplier

Trade name	SnowClear (Snow Clear)
Product description	Prilled calcium chloride ice and snow melting compound
Supplier	Chemical Solutions, Cottesmore House, 42 Kennel Lane, Fetcham, Surrey
Telephone	0845 2500 943
Pack sizes	20 kg tubs, or 1 pallet of 30 × 20 kg tubs

2. Composition and information on ingredients

Component	CAS no.	Concentration	Symbol	Risk phrase
Calcium chloride	10043-52-4	70–100%	Xi	R36

SnowClear is based on prilled calcium chloride (**CAS 10043-52-4**) at a concentration of 70–100%. Calcium chloride is produced from naturally occurring minerals that are low in toxicity and should present no unusual hazards to the environment under most circumstances.

3. Hazards identification

Classification: Irritant (Xi). **Risk phrases:** R36/38 – irritating to eyes and skin.

- Irritating to eyes, with possible burns on prolonged contact.
- The solid may cause mild irritation on dry skin; strong solutions, or the solid in contact with moist skin, may cause severe irritation or even burns.
- May be harmful if ingested.

Under the CHIP classification the corresponding hazard symbol is Xi (irritant). The equivalent modern GHS/CLP pictogram is GHS07 (exclamation mark).



GHS07 – irritant / harmful (corresponds to the Xi classification on this data sheet).

4. First aid measures

Eyes	Wash with plenty of water for 15 minutes. If irritation persists, seek medical advice.
Skin	Wash with plenty of water. If any irritation occurs, seek medical advice.
Ingestion	May cause diarrhoea and vomiting when large quantities are ingested. Dilute by drinking water.
Inhalation	Remove from the exposure area to fresh air immediately. Get medical attention if needed.

5. Fire fighting measures

SnowClear is non-flammable and is not an explosion hazard. Exposure to temperatures above 175 °C can form toxic chloride gases. In the event of a fire in the surrounding area, preferably do not extinguish with water.

6. Accidental release measures

Personal precautions	Wear appropriate protective (impervious) clothing.
Environmental precautions	Stop leaks if possible. Take up with sand or another absorbent material and place into containers for later disposal.
Spillages	Small amounts can be washed away with water. Dispose of large amounts in accordance with local regulations.

7. Handling and storage

Handling: avoid the formation of dust, and avoid contact with skin and eyes.

Storage: store in a cool, dry place in a tightly closed container, away from incompatible substances such as acids.

8. Personal protective equipment and exposure controls

Respiratory protection	Dust mask (where dust may be generated).
Hand protection	Protective gloves.
Eye protection	Wear safety goggles or a face shield.
Skin protection	Work overalls.

9. Physical and chemical properties

Appearance / colour	Colourless to white, granular powder
Odour	Odourless
pH value	10 (aqueous solution, 10%)
Boiling range	>1600 °C
Melting point	780 °C
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Explosive limits in air	Not applicable
Vapour pressure at 20 °C	Not applicable
Relative density at 20 °C	2.15
Water solubility	Soluble, with evolution of heat
Bulk density	600 kg/m ³

10. Stability and reactivity

Conditions to avoid	Temperatures above 100 °C and contact with water.
Materials to avoid	Acids.
Hazardous decomposition	Emits toxic chlorine fumes when heated to decomposition.

11. Toxicological information

Acute toxicity: LD50 oral rat 1,000 mg/kg (100% calcium chloride). The product is moderately toxic by ingestion and slightly toxic by dermal absorption.

Sensitisation: not applicable. For eye, skin, ingestion and inhalation effects, see the first aid measures in section 4 above.

12. Ecological information

No biodegradability, toxicity, distribution or mobility data is available for SnowClear. Calcium chloride is made from naturally occurring minerals that are low in toxicity and should present no unusual hazards to the environment under most circumstances.

13. Disposal considerations

Product	Observe all state and local regulations.
Packaging	Dispose of according to local regulations.

14. Transport information

Classification for transport	Irritant, Xi
UN number	—
UN proper shipping name	Calcium chloride
ADR/RID class	Not applicable
ADR/RID item no.	Not applicable
IMDG packaging group	3
IMDG class	8

15. Regulatory information

EEC classification	Irritant, Xi
Risk phrases	R36/38 – irritating to eyes and skin
Safety phrases	S2: keep out of reach of children. S22: do not breathe dust. S24/25: avoid contact with eyes and skin.

16. Other information

This data sheet was prepared in accordance with Directive 91/155/EEC and conforms to CHIP 3 (2002). Revision date: February 2008. SnowClear is supplied by Chemical Solutions as a 20 kg tubbed de-icer for paths, driveways, roads, runways, steps, loading bays and parking bays.

Frequently asked questions about SnowClear

What is SnowClear made of?

SnowClear is a prilled calcium chloride de-icer containing calcium chloride (CAS 10043-52-4) at 70–100%. It contains no rock salt and leaves no gritty residue.

Is SnowClear hazardous?

SnowClear is classified as an irritant (Xi) under CHIP and carries risk phrase R36/38 – irritating to eyes and skin. It may be harmful if ingested. It is not flammable.

What should I do if SnowClear gets in my eyes?

Wash with plenty of water for 15 minutes. If irritation persists, seek medical advice. For skin contact, wash with plenty of water and seek advice if irritation occurs.

How should SnowClear be stored?

Store SnowClear in a cool, dry place in a tightly closed container, away from acids. Avoid temperatures above 100 °C and contact with water.

Is SnowClear flammable?

No. SnowClear is non-flammable and is not an explosion hazard. At temperatures above 175 °C it can form toxic chloride gases.

Do I need a COSHH assessment for SnowClear?

Yes. As with any substance hazardous to health, employers should carry out a COSHH assessment before SnowClear is used at work. This data sheet provides the hazard, handling, storage and first aid information needed to complete that assessment.

Where can I get the full SnowClear safety data sheet?

The full safety data sheet is summarised on this page. If you need a copy by email or post, please [contact Chemical Solutions](#) or call 0845 2500 943.

Regulations and guidance

The following official UK and EU sources are relevant to this data sheet:

- [HSE – COSHH \(Control of Substances Hazardous to Health\)](#)
- [HSE – Chemical classification \(CHIP and CLP\)](#)
- [ECHA – European Chemicals Agency](#)
- [CLP Regulation \(EC\) No 1272/2008 \(EUR-Lex\)](#)
- [UNECE – Transport of dangerous goods \(ADR\)](#)

Official sources: HSE (UK), ECHA, EUR-Lex and UNECE. Links open in a new tab.