

MATERIAL SAFETY DATA SHEET
CALCIUM CHLORIDE DIHYDRATE

1. Product Identification


Product Name:	Calcium Chloride Dihydrate	Supplier:	ASES CHEMICAL WORKS.
Alternate Name:	Calcium Dichloride Dihydrate	Address:	Brahm Bagh, Jalori Gate Jodhpur - 342001 Rajasthan-India
CAS No.:	10035-04-8	Phone:	+91-9636889954
Chemical Formula:	CaCl ₂ · 2H ₂ O	Web:	www.ases.in
Product Use:	Laboratory chemicals, Manufacture of substances	Email :	ecom@ases.in

2. Hazards Identification

Classification according to Regulation (EC) No 1272/2008

Serious eye damage/eye irritation, Category 2 H319

Labeling according to Regulation (EC) No 1272/2008

Hazard pictograms:  GHS07

Signal word: Warning

Hazard statements: H319 - Causes serious eye irritation

Precautionary statements: P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Other hazards:

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

3. Composition/Information on Ingredients

Product Name	CAS No.	EC No	Mol Formula	Mol weight	Concentration%
Calcium Chloride Dihydrate	10035-04-8	233-140-8	C ₁₀ H ₁₆ N ₂ O ₃ S	147,02	100%

4. First Aid Measures

General: If you feel unwell, seek medical advice. Treat symptomatically.

Inhalation: Remove person to fresh air and keep comfortable for breathing. Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure. Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard

Ingestion: Rinse mouth. Do not induce vomiting. Call a poison centre or a doctor if you feel unwell.

Skin Contact: Wash with plenty of water. Get immediate medical advice/attention. Dust may cause irritation in skin folds or by contact in combination with tight clothing.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention. If eye irritation persists: Get medical advice/attention

5. Fire Fighting Measures

Extinguishing media: Carbon dioxide. Dry powder. Foam. Water spray. Do not use a heavy water stream.

Fire/Explosion hazard: No fire hazard. No direct explosion hazard.

Hazardous decomposition products: Toxic fumes may be released.

Advice for firefighters: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures:

Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage. Wear recommended personal protective equipment. Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes. Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. Evacuate unnecessary personnel.

Environmental precautions: Avoid release to the environment.

Methods cleanup procedures and Storage:

Using a clean shovel, put the material in a dry container and cover without compressing it. Mechanically recover the product. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers. Dispose of materials or solid residues at an authorized site.

7. Handling and Storage

Precautions for safe handling & hygiene measures :

Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe vapours. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Conditions for safe storage, including any incompatibilities:

Store in original container. Keep container tightly closed & in a dry place. Store in a well-ventilated place. Keep cool.

8. Exposure Controls/Personal Protection

Control parameters:	No additional information available
Appropriate engineering controls:	Ensure good ventilation of the work station.
Personal protection equipment:	Wear recommended personal protective equipment.
Eye and face protection:	Chemical goggles or safety glasses
Skin protection:	Wear a mask. Protective gloves
Respiratory protection:	Wear appropriate mask
Environmental exposure controls:	Avoid release to the environment.

9. Physical and Chemical Properties

Physical state:	Solid	Auto-ignition temp:	No data available
Appearance:	Crystalline powder.	Decomposition temp:	Not available
Molecular mass:	147.02 g/mol	Explosive limits:	Not applicable
Colour:	White powder.	Vapour pressure:	0.01 hPa at 20 °C
Odour:	Odourless.	Density:	1.85 g/cm ³ at 20 °C
Odour threshold:	Not available	Flammability:	Non-flammable.
Melting point:	176 °C (Decomposes)	Partition coefficient : n-octanol/water (Log Pow)	0.05
Freezing point:	Not applicable	Relative density:	Not available
Boiling point:	> 1600 °C	Solubility Water:	147 g/l at 20 °C - completely soluble
pH:	4.5 – 8.5 at 25 °C	Solubility Ethanol:	Soluble
pH sol. concentration:	5 %	Viscosity:	Not available
Relative density:	No data available		
Flash point:	Not applicable		

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10. Stability and Reactivity

Reactivity:	No data available.
Stability:	Stable under normal conditions.
Hazardous Decomposition Products:	No data available.
Hazardous Polymerization:	No dangerous reactions known under normal conditions of use.
Incompatibilities:	No additional information available
Conditions to Avoid:	Air contact. Direct sunlight. Moisture.

11. Toxicological Information

Acute toxicity (oral/dermal/inhalation) :	Not classified
Serious eye damage/irritation:	Causes serious eye irritation. pH: 4.5 – 8.5 at 25 °C
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT-single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified

12. Ecological Information

Ecology - general:	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Persistence and Degradability:	Rapidly degradable
Bioaccumulative potential:	No additional information available
Mobility in soil:	No additional information available.
Results of PBT and vPvB assessment:	No additional information available.
Other adverse effects:	No additional information available.

13. Disposal Considerations

Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.

14. Transport Information

DOT USA & ADR/IRD:	Not regulated.
IMDG:	Not regulated.
IATA:	Not regulated.

15. Regulatory Information

This Safety datasheet complies with the requirements of Regulation (EC) No 1907/2006. For this product a chemical safety assessment was not carried out

16. Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and ASES CHEMICAL WORKS assume no liability resulting from its use.