

SAFETY DATA SHEET

ACTICLEAR Moisture Absorber Refill - Calcium Chloride Pellets

SECTION 1: IDENTIFICATION

Product identifier	ACTICLEAR Moisture Absorber Refill - Calcium Chloride Pellets
Product code	SDS001
Other names	Calcium chloride dihydrate; calcium chloride pellets
Recommended use	Refill media for compatible household moisture absorber devices.
Restrictions on use	Use only as directed. Not for food, feed, pharmaceutical, or medical use. Do not ingest.
Distributed by	CARBONHUB COMMERCE CO., LIMITED
Address	RM A111, UNIT 27, 8/F, SHING YIP IND BUILDING, 19-21 SHING YIP STREET, KWUN TONG, HONG KONG
Information contact	info@acticlear.co https://acticlear.co
Information telephone	+86 192 4300 3972
Emergency telephone (U.S.)	Poison Control: 1-800-222-1222 (24 hours). For a life-threatening emergency, call 911.

SECTION 2: HAZARD(S) IDENTIFICATION

OSHA HCS classification

Serious eye damage/eye irritation - Category 2A

Signal word: WARNING

Hazard statement

H319 - Causes serious eye irritation.



Precautionary statements

- P264 - Wash hands thoroughly after handling.
- P280 - Wear protective gloves and eye protection when handling bulk material or when dust or splash exposure is possible.
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 - If eye irritation persists: Get medical advice/attention.

Hazards not otherwise classified (HNOC)

Hygroscopic solid. Dissolving in water releases heat. Wet material or concentrated brine may irritate skin and may damage leather, metal, plants, fabrics, carpets, electronics, and finished surfaces.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Formula	Concentration
Calcium chloride, supplied in dihydrate form	10035-04-8	$\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$	$\geq 74 \text{ wt\% as CaCl}_2 \text{ equivalent}^*$

*Concentration is expressed as CaCl_2 equivalent. The material is supplied in calcium chloride dihydrate form. Pure $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$ theoretically contains approximately 75.5 wt% CaCl_2 ; therefore, the stated assay corresponds to approximately 98.0-100 wt% calcium chloride dihydrate equivalent on a theoretical stoichiometric basis. This converted range is not a separately certified purity specification.

SECTION 4: FIRST-AID MEASURES

Eye contact	Immediately rinse cautiously with water for 15-20 minutes. Remove contact lenses after the first 5 minutes, if present and easy to do, then continue rinsing. Obtain medical attention if irritation persists.
Skin contact	Remove contaminated clothing. Wash exposed skin with plenty of soap and water. Obtain medical attention if irritation develops or persists.
Inhalation	Move person to fresh air and keep comfortable for breathing. Obtain medical attention if breathing difficulty or irritation persists.
Ingestion	Rinse mouth. Do not induce vomiting. Give small amounts of water only if the person is conscious. Call Poison Control at 1-800-222-1222 or obtain medical advice. Never give anything by mouth to an unconscious person.

Most important symptoms/effects

Eye exposure may cause redness, tearing, pain, and irritation. Wet skin contact may cause dryness, redness, or irritation. Dust may irritate the nose and throat. Ingestion may cause nausea, vomiting, thirst, or gastrointestinal irritation.

Immediate medical attention/special treatment

Treat symptomatically. Seek immediate medical attention for severe eye pain, persistent symptoms, breathing difficulty, or significant ingestion.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media	Product is non-combustible. Use extinguishing media appropriate for the surrounding fire.
Unsuitable extinguishing media	No specific restrictions identified. Avoid directing a high-pressure water stream into spilled bulk solid.
Specific hazards	Material does not burn. Strong heating may produce corrosive hydrogen chloride fumes and calcium oxide.
Firefighter protection	Wear full protective equipment and NIOSH-approved self-contained breathing apparatus when decomposition products may be present.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid eye and skin contact and avoid breathing dust. Provide ventilation. Wear suitable gloves and eye protection for bulk cleanup.

Containment and cleanup

Prevent dust formation. Sweep, shovel, or HEPA-vacuum dry material into a clean, dry, labeled container. Do not return contaminated material to the original container. Absorb brine with an inert material and collect for disposal. Rinse trace residue with water only after the bulk material has been removed.

Environmental precautions

Prevent large releases to storm drains, surface water, soil, or vegetation. Collected brine can damage sensitive surfaces and plants.

SECTION 7: HANDLING AND STORAGE

Safe handling	Avoid generating dust. Avoid contact with eyes and prolonged contact with wet skin. Do not eat, drink, or smoke while handling bulk material. Wash hands after handling. Keep the jug upright and close the cap immediately after refilling.
Safe storage	Keep tightly closed in a cool, dry, well-ventilated place. Protect from moisture and physical damage. Keep away from food, beverages, children, pets, and incompatible materials.
Specific precautions	Dissolution is exothermic. If intentional dilution is required, add the solid slowly to a large amount of cool water with stirring; do not pour water onto bulk solid.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Substance	OSHA PEL	ACGIH TLV
Calcium chloride	No substance-specific limit established	No substance-specific limit established
Particulates not otherwise regulated	15 mg/m ³ total dust; 5 mg/m ³ respirable fraction	Use current nuisance-dust guidance where applicable

Exposure controls and personal protective equipment

Engineering controls	Normal household use requires no special ventilation. For bulk transfer, provide adequate general or local exhaust ventilation and minimize dust.
Eyeface protection	Safety glasses with side shields for bulk handling; chemical splash goggles where dust or brine splash is possible.
Hand protection	Protective gloves recommended for prolonged contact, spill cleanup, or handling wet material/brine.
Respiratory protection	Not normally required when used as directed. If dust is generated and ventilation is inadequate, use a NIOSH-approved particulate respirator (for example, N95) in accordance with 29 CFR 1910.134.
Hygiene measures	Wash hands and exposed skin after handling. Launder contaminated clothing before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value	Property	Value
Physical state	Solid pellets/crystals	Color	White to off-white
Odor	Odorless	Odor threshold	Not applicable
pH	Approx. 4.5-6.5 (100 g/L aqueous solution; reference data)	Melting point	Approx. 175°C
Boiling point	Not applicable; decomposes	Flash point	Not applicable
Evaporation rate	Not applicable	Flammability	Non-combustible
Explosive limits	Not applicable	Vapor pressure/density	Not applicable (solid)
Relative density	No product-specific data available	Water solubility	Freely soluble
Partition coefficient	log Pow approx. 0.05	Auto-ignition	Not applicable
Decomposition temp.	No product-specific data available	Viscosity	Not applicable (solid)
Particle characteristics	Pellets; particle-size data not available	Molecular weight	147.02 g/mol
Molecular formula	CaCl ₂ · 2H ₂ O	VOC content	Not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Dissolution in water is exothermic. Material is hygroscopic.
Chemical stability	Stable under recommended storage conditions when kept dry and tightly closed.
Hazardous reactions	Hazardous polymerization will not occur. Rapid addition of water to bulk material may cause significant heat and splattering.
Conditions to avoid	Moisture exposure, excessive heat, dust generation, and contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Concentrated calcium chloride solutions or brine may attack some metals.
Hazardous decomposition products	Hydrogen chloride fumes and calcium oxide may form during strong heating.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely routes of exposure	Eye contact, skin contact, inhalation of dust, and ingestion.
Acute toxicity	Based on available reference data, classification criteria are not met. Reference oral LD50 (rat) for calcium chloride: 2,301 mg/kg.
Skin corrosion/irritation	Classification criteria are not met. Wet material or concentrated brine may cause irritation.
Serious eye damage/irritation	Causes serious eye irritation - Category 2A.
Respiratory/skin sensitization	Classification criteria are not met based on available data.
Germ cell mutagenicity	Classification criteria are not met based on available data.
Carcinogenicity	Not listed as a carcinogen by OSHA, NTP, or IARC.
Reproductive toxicity	Classification criteria are not met based on available data.
STOT - single/repeated exposure	Classification criteria are not met based on available data.
Aspiration hazard	Not applicable to a solid inorganic salt.

Symptoms related to exposure

Eye redness, tearing, pain, and irritation; skin dryness or redness; nose and throat irritation from dust; nausea, vomiting, thirst, or gastrointestinal discomfort after ingestion.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	Not classified as environmentally hazardous based on available data. Large releases may increase chloride concentration and harm vegetation or freshwater organisms.
Reference aquatic data	Calcium chloride: fish LC50 10,650 mg/L (96 h); aquatic invertebrate EC50 3,005 mg/L (48 h).
Persistence/degradability	Inorganic substance; biodegradation is not applicable. Dissociates into calcium and chloride ions in water.
Bioaccumulative potential	Bioaccumulation is not expected.
Mobility in soil	Highly water soluble and mobile; chloride may migrate with water.
Other adverse effects	No ozone-depletion potential. Avoid uncontrolled release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Recover usable dry product where uncontaminated. Dispose of contaminated material and packaging in accordance with applicable federal, state, and local requirements. For normal household use, collected brine may be discharged to a sanitary drain with plenty of running water only where local rules permit. Do not discharge to storm drains, soil, plants, lawns, surface water, or sensitive surfaces. Do not reuse the refill jug for food or beverages.

SECTION 14: TRANSPORT INFORMATION

Mode	Classification	UN number / class / packing group
U.S. DOT	Not regulated as dangerous goods	Not applicable
IMDG	Not regulated as dangerous goods	Not applicable
IATA	Not regulated as dangerous goods	Not applicable

SECTION 15: REGULATORY INFORMATION

OSHA Hazard Communication	Hazardous chemical due to serious eye irritation classification. This SDS follows the 16-section sequence in 29 CFR 1910.1200 Appendix D.
SARA 302 / 313	No components known to be subject to reporting at the stated concentration.
CERCLA	No reportable quantity established for the supplied calcium chloride product.
California Proposition 65	No Proposition 65-listed substances are identified for the stated composition.
TSCA	Calcium chloride (CAS 10043-52-4) is listed as active on the TSCA Inventory.
Consumer product note	Household consumer labeling may also be subject to the U.S. Consumer Product Safety Commission and the Federal Hazardous Substances Act. Consumer label requirements differ from workplace SDS classification.

SECTION 16: OTHER INFORMATION

Preparation/revision date	August 15, 2026
Revision	1.4 - Added the theoretical calcium chloride dihydrate equivalent range for the supplier-supported assay.
Key references	Supplier MSDS for Calcium Chloride Dihydrate 74% min Pellet (revision November 19, 2018); Fisher Scientific calcium chloride dihydrate SDS (revision December 19, 2025); PubChem calcium chloride dihydrate record; Sigma-Aldrich calcium chloride dihydrate safety information; OSHA 29 CFR 1910.1200 Appendix D.
Abbreviations	ACGIH - American Conference of Governmental Industrial Hygienists; DOT - Department of Transportation; GHS - Globally Harmonized System; HCS - Hazard Communication Standard; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; NIOSH - National Institute for Occupational Safety and Health; OSHA - Occupational Safety and Health Administration; PEL - Permissible Exposure Limit; STOT - Specific Target Organ Toxicity.