SAFETY DATA SHEET

CALCIUM CHLORIDE PELLETS

Product Code: B-CCPXXX
Effective Date: Nov 11, 2026
Version: 2.0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	**Calcium Chloride Pellets**	**CAS Number**	10043-52-4
Synonyms	Calcium Dichloride, Pellets Calcium Chloride	**Product Code**	B-CCPXXX
Supplier Details	**Blendmagic Products, LLC** | PO Box 220, East Islip, NY 11730 | Tel: (631) 572-3381 / (888) 605-4332		
Recommended Use	Ice and snow melting, deicing agent for cured concrete/asphalt, dust suppression, and moisture retention.		
Emergency Numbers	**24/7 CHEMTREC (USA):** (800) 424-9300 | **International:** +1 (703) 527-3887		

2. HAZARDS IDENTIFICATION

Signal Word	**WARNING**
GHS Classification	• Acute Toxicity (Oral) – Category 4 (H302) • Eye Damage / Eye Irritation – Category 2A (H319)
Hazard Statements	Harmful if swallowed. Causes serious eye irritation.

GHS PICTOGRAM



Precautionary Statements:

Prevention & Handling:

- Wash hands and exposed skin thoroughly after handling.
- Do not eat, drink, or smoke when using this product.
- Wear eye protection and protective gloves.

Response & Storage:

- **IF SWALLOWED:** Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.
- **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical help.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component Name	CAS Number	Weight %	GHS-US Classification
Calcium Chloride	10043-52-4	> 90% – < 92%	Acute Tox. 4 (Oral, H302); Eye Irrit. 2A (H319)
Water	7732-18-5	> 4% – < 6%	Not classified
Potassium Chloride	7447-40-7	> 2% – < 3%	Not classified
Sodium Chloride	7647-14-5	> 1% – < 2%	Not classified

*Potassium chloride and sodium chloride are naturally occurring mineral impurities in brine solution.

4. FIRST AID MEASURES

- **Inhalation:** If dust is inhaled, remove person to fresh air and keep comfortable for breathing. Get medical help if breathing difficulty persists.
- **Skin Contact:** Wash skin with plenty of water and mild soap. Take off contaminated clothing and wash before reuse. Get medical attention if skin irritation occurs.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Get medical help if irritation persists.
- **Ingestion:** Get immediate medical help. Rinse mouth with water. Do NOT induce vomiting unless directed to do so by medical personnel.
- **Most Important Symptoms:** Causes serious eye irritation (redness, tearing, abrasion). Heat generated upon contact with moisture can cause localized thermal irritation or burns. Ingestion causes nausea, vomiting, and gastric irritation.

5. FIRE-FIGHTING MEASURES

- **Extinguishing Media:** Material is non-combustible. Use extinguishing media suitable for surrounding fire (water spray, carbon dioxide, dry chemical, or foam).
- **Specific Fire Hazards:** Solid calcium chloride releases substantial exothermic heat when dissolved in water. Contact with zinc coating on galvanized metals may generate flammable hydrogen gas. Thermal breakdown under fire conditions yields toxic Hydrogen Chloride (HCl) gas and Calcium Oxide.
- **Protective Actions:** Avoid direct contact with water streams inside containers. Wear self-contained breathing apparatus (SCBA) in positive pressure mode and full protective turnout gear.

6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Isolate spill area. Wear appropriate safety equipment including chemical safety goggles, protective gloves, and boots (Section 8). Spilled material creates a slipping hazard on damp surfaces.
- **Environmental Precautions:** Prevent large spills from entering soil, storm sewers, ditches, waterways, or groundwater.
- **Clean-Up Methods:** Shovel or sweep up spilled solid material (avoid generating airborne dust). Recover product into clean, compatible containers (PVC, polyethylene, or lined drums) for reuse or disposal. Flush spill residue with water.

7. HANDLING AND STORAGE

Safe Handling Precautions:
Heat developed during dissolving in water is very high; use cool water (< 27°C / 80°F) when diluting. Avoid contact with eyes, skin, and clothing. Wash hands and exposed skin thoroughly after handling. Keep containers closed when not in use.

Storage Conditions:
Hygroscopic material; protect from atmospheric moisture. Store in a cool, dry, well-ventilated area away from incompatible substances (strong oxidizers, acids, and reactive metals like zinc or aluminum).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	OSHA PEL	ACGIH TLV (PNOS Recommendation)
Calcium Chloride (10043-52-4)	15 mg/m³ (Total Dust) / 5 mg/m³ (Respirable)	10 mg/m³ (Inhalable) / 3 mg/m³ (Respirable)
Potassium & Sodium Chloride	Not established	Not established

Engineering Controls: Use local exhaust or general room ventilation to maintain airborne particulate levels below exposure limits. Safety eyewash stations should be immediately available.

Personal Protective Equipment (PPE):
• **Eye/Face:** Chemical safety goggles or full face shield.
• **Skin:** Chemically resistant neoprene, PVC, or nitrile gloves and protective work clothing.
• **Respiratory:** NIOSH-approved dust respirator (N95 or HEPA) in dusty environments.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White solid pellets
Odor	Odorless
pH Value	7.0 – 9.0 (aqueous solution)
Melting Point	772°C (1,422°F)
Boiling Point	1,935°C (3,515°F)
Flash Point	Non-flammable

Bulk Density	58 – 66 lb/ft³ (930 – 1,060 kg/m³)
Solubility in Water	Readily soluble (exothermic)
Vapor Pressure	Negligible @ 20°C
Hygroscopic	Yes (deliquescent)
VOC Content	0%
Flammability Limits	Not applicable

10. STABILITY AND REACTIVITY

- **Reactivity:** Highly hygroscopic. Generates significant exothermic heat when mixed with water or aqueous acids.
- **Chemical Stability:** Stable under normal ambient temperatures and dry storage conditions.
- **Possibility of Hazardous Reactions:** Contact with zinc or galvanized metals in moist environments may release flammable hydrogen gas. Catalyzes exothermic polymerization of methyl vinyl ether.
- **Conditions to Avoid:** Exposure to ambient moisture, high humidity, and incompatible materials.
- **Incompatible Materials:** Strong oxidizing agents, strong acids, methyl vinyl ether, bromine trifluoride, and reactive metals.
- **Hazardous Decomposition Products:** Formed under fire conditions: toxic Hydrogen Chloride (HCl) gas and Calcium Oxide.

11. TOXICOLOGICAL INFORMATION

Component Toxicity Endpoint Values:
• **Oral LD50 (Rat):** 1,000 mg/kg (Calcium Chloride).
• **Oral LD50 (ATE Mix):** 1,055 mg/kg.
• **Dermal LD50 (Rabbit):** > 5,000 mg/kg.

Health Hazards & Specific Effects:
• **Eye Irritation:** Category 2A — Causes serious eye irritation.
• **Acute Oral Toxicity:** Category 4 — Harmful if swallowed.
• **Carcinogenicity / Mutagenicity:** Not listed by IARC, NTP, ACGIH, or OSHA. Negative in mutagenicity assays.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Practically non-toxic to aquatic organisms. Bluegill Sunfish (Lepomis macrochirus) LC50 (96h): 8,350 – 10,650 mg/L; Daphnia magna EC50 (48h): 2,400 mg/L.
Persistence & Mobility: Dissociates rapidly into calcium and chloride ions in aquatic environments. Calcium ions bind to soil particulates, while chloride ions remain mobile. Bioaccumulation is not expected.

13. DISPOSAL CONSIDERATIONS

Dispose of contents and container in accordance with local, state/provincial, and federal regulations. Unused product may be recycled for deicing or dust control applications.

14. TRANSPORT INFORMATION

US DOT / TDG	Not Regulated for transport
IMDG / IATA	Not Regulated for transport
UN Number / Class	None / None

15. REGULATORY INFORMATION

US Federal Regulations: All ingredients listed on TSCA Inventory. SARA 311/312: Acute Health Hazard (Oral Toxin, Eye Irritant). SARA 313: None.
State & International Regulations: Canadian DSL listed. California Proposition 65: Product does not contain listed substances causing cancer or reproductive toxicity (trace bromates may form if combined with strong oxidizers like ozone).

16. OTHER INFORMATION

NFPA 704 Rating: Health: 1 | Flammability: 0 | Instability: 0
HMIS Rating: Health: 1 | Flammability: 0 | Physical Hazard: 0

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Prepared By: Blendmagic Products, LLC Technical Dept.