# SAFETY DATA SHEET

**LIQUID CALCIUM CHLORIDE (35%)**

**Product Code:** B-LCPXXX
**Effective Date:** Oct 29, 2026
**Version:** 2.0

## 1. PRODUCT AND COMPANY IDENTIFICATION

| | | | |
|---|---|---|---|
| **Product Name** | **Liquid Calcium Chloride (35%)** | **CAS Number** | 10043-52-4 |
| **Product Code** | B-LCPXXX | **Formula** | $CaCl_2$ (aq) |
| **Supplier Details** | **Blendmagic Products, LLC** \| PO Box 220, East Islip, NY 11730 \| Tel: (631) 572-3381 / (888) 605-4332 | | |
| **Recommended Use** | Industrial snow and ice melting, liquid deicing pre-wetting, brine treatment, and dust control. | | |
| **Restrictions on Use** | Not Food Grade. Not for Ingestion or direct contact with human food items. | | |
| **Emergency Numbers** | **24/7 CHEMTREC (USA):** (800) 424-9300 \| **International:** +1 (703) 527-3887 | | |

## 2. HAZARDS IDENTIFICATION

| | |
|---|---|
| **Signal Word** | **WARNING** |
| **GHS Classification** | • Serious Eye Damage / Eye Irritation – Category 2A (H319) |
| **Hazard Statements** | Causes serious eye irritation. |

GHS HAZARD



### Precautionary Statements:

**Prevention:**

- Wash hands and working surfaces thoroughly after handling.
- Wear protective gloves, protective clothing, and eye/face protection.
- Do not eat, drink, or smoke when using this product.

**Response & Storage:**

- **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 advice/attention.
- Store in accordance with local and national storage regulations.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Component Name | CAS Number | EC Number | Weight % | GHS-US Classification |
|---|---|---|---|---|
| **Calcium Chloride** | 10043-52-4 | 233-140-8 | 35% w/w | Eye Irrit. 2A (H319) |
| **Water / Aqueous Solution Matrix** | 7732-18-5 | 231-791-2 | 65% w/w | Not classified |

## 4. FIRST AID MEASURES

- **Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if symptoms or irritation persist.
- **Skin Contact:** Remove contaminated clothing immediately. Rinse skin with plenty of water or shower. Wash clothing before reuse.
- **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. Seek immediate medical attention.
- **Ingestion:** Rinse mouth thoroughly with water. Do NOT induce vomiting. Give 200–300 mL (half pint) of water to drink. Seek medical advice immediately.
- **Most Important Symptoms:** Causes severe eye irritation with redness, tearing, and stinging pain. Mild mechanical skin irritation upon prolonged contact.

## 5. FIRE-FIGHTING MEASURES

- **Extinguishing Media:** Non-flammable liquid. In case of fire, use extinguishing media appropriate to surrounding fire conditions (water spray, dry chemical, carbon dioxide, or foam).
- **Specific Fire Hazards:** Material will not burn. Thermal decomposition under extreme heat may release hydrogen chloride gas and calcium oxide fumes.
- **Protective Actions:** Wear full protective clothing and NIOSH-approved positive-pressure SCBA. Contain runoff water.

## 6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Wear suitable protective clothing, boots, nitrile gloves, and chemical eye goggles. Spilled liquid creates slippery surfaces.
- **Environmental Precautions:** Avoid release of large concentrated volumes into the aquatic environment, public sewers, or soil.
- **Clean-Up Methods:** Absorb liquid spill with inert absorbent material (sand, earth, vermiculite). Scoop absorbed material into labeled containers for proper disposal. Clean spillage area thoroughly with plenty of water.

## 7. HANDLING AND STORAGE

**Safe Handling Precautions:**
Avoid contact with eyes, skin, and clothing. Wear protective equipment. Handle and open containers with care. Do not eat, drink, or smoke when using this product. Wash thoroughly after handling.

**Storage Conditions:**
Bulk storage: store in mild steel, carbon steel, polypropylene, GRP, or HDPE containers at normal ambient temperatures. Keep away from moist air and incompatible materials.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| Component | OSHA PEL | ACGIH TLV | WEL Guidelines (Inert Dust/Mist) |
|---|---|---|---|
| **Calcium Chloride (10043-52-4)** | Not established | Not established | 10 mg/m³ (Total dust) / 4 mg/m³ (Respirable dust) |

**Engineering Controls:** General mechanical ventilation is adequate. Safety eyewash stations and safety showers should be readily accessible.

**Personal Protective Equipment (PPE):**
- **Eye/Face:** Chemical safety goggles or full face shield.
- **Skin:** Rubber/nitrile gloves and long-sleeve protective clothing.
- **Respiratory:** Approved dust/mist respirator if mists exceed guidelines.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Appearance** | Clear, colorless liquid |
| **Odor** | Odorless |
| **pH Value** | 8.0 – 10.0 |
| **Boiling Point** | 100°C – 120°C (212°F – 248°F) |
| **Flash Point** | Non-flammable |
| **Specific Gravity** | 1.155 – 1.420 g/cm³ @ 20°C |

| | |
|---|---|
| **Vapor Pressure** | Negligible |
| **Vapor Density** | Not applicable |
| **Solubility in Water** | Miscible in water (100%) |
| **Dynamic Viscosity** | 2 – 10 mPa·s @ 20°C |
| **Flammability Limits** | Not applicable |
| **VOC Content** | 0% |

## 10. STABILITY AND REACTIVITY

- **Reactivity:** Hygroscopic liquid solution. Stable under normal conditions.
- **Chemical Stability:** Stable under recommended storage and handling conditions.
- **Possibility of Hazardous Reactions:** No hazardous reactions known if used for intended industrial purposes.
- **Conditions to Avoid:** Exposure to excessive moisture, air drying, or extreme temperatures.
- **Incompatible Materials:** Strong oxidizing agents, strong reducing agents, and reactive metals.
- **Hazardous Decomposition Products:** No hazardous decomposition products known under ambient conditions. Thermal breakdown emits hydrogen chloride.

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity Endpoint Values:**
• **Oral LD50 (Rat):** 2,301 mg/kg.
• **Dermal LD50 (Rabbit):** 5,000 mg/kg.
• **Inhalation LC50:** Not irritating to respiratory system.

**Health Hazards & Specific Effects:**
• **Eye Contact:** Category 2A — Causes severe irritation.
• **Skin Contact:** No irritating effect.
• **Carcinogenicity / Mutagenicity:** Not classified as a carcinogen or mutagen.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** LC50 Fish (96h): 4,630 mg/L; EC50 Algae (72h): 2,900 mg/L.
**Persistence & Mobility:** Dissociates in water into calcium and chloride ions. Miscible in water. Does not bioaccumulate. Not a PBT or vPvB substance under REACH Annex XIII.

## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and national environmental legislation. Do not mix with acid solutions (S50).

## 14. TRANSPORT INFORMATION

| | |
|---|---|
| **US DOT / IATA** | Not classified as hazardous for transport |
| **IMDG / MARPOL** | Not regulated under IBC Code |
| **Environmental Hazard** | None |

## 15. REGULATORY INFORMATION

**US Federal Regulations:** All ingredients listed on TSCA Inventory. SARA 311/312: Eye Irritation. SARA 313: None.
**Canadian / International:** Listed on Canadian DSL. EINECS EC # 233-140-8. Hazard symbols: No significant hazard beyond eye warning.

## 16. OTHER INFORMATION

**NFPA 704 Rating:** Health: 2 | Flammability: 0 | Instability: 0
**HMIS Rating:** Health: 2 | Flammability: 0 | Physical Hazard: 0

**Effective Date:** October 29, 2026 (Version 2.0)
**Prepared By:** Blendmagic Products, LLC Technical Dept.