



## Safety Data Sheet

**Product Name:** BECX-12<sup>®</sup> Calcium Silicate Insulation

**Revision Date:** May 7, 2026

**Revision Number:** Rev. 1.0.8 (Replaces Rev. 1.0.7)

**Manufacturer:** BEC Industrial (Shanghai) Co., Ltd.

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### Section 1 — Identification

- **Product Identifier:** BECX-12<sup>®</sup> Calcium Silicate Insulation
- **Recommended Use:** Industrial high-temperature pipe and block insulation.
- **Restrictions on Use:** For professional users only.
- **Manufacturer Information:** BEC Industrial (Shanghai) Co., Ltd., No. 2, Chuangye Road, Xinduo Town, Xinghua City, Jiangsu Province, China.
- **Emergency Phone Number:** +86 0523-80959939 (Mon-Fri, 8:00 a.m. to 4:00 p.m. local time).

### Section 2 — Hazard Identification

#### GHS Classification:

- **Skin Irritation:** Category 3 (Mechanical)
- **Eye Irritation:** Category 2B (Mechanical)
- **Specific Target Organ Toxicity (Single Exposure):** Category 3 (Respiratory tract irritation).

## GHS Label Elements:

- **Signal Word:** WARNING
- **Hazard Pictogram:**



- **Hazard Statements:**
  - H335: May cause respiratory irritation (dust).
  - H316: Causes mild skin irritation (mechanical).
  - H320: Causes eye irritation (mechanical).
- **Precautionary Statements:**
  - **Prevention:** P261: Avoid breathing dust. P280: Wear protective gloves/eye protection/face protection.
  - **Response:** P304+P340: IF INHALED: Remove person to fresh air. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.
  - **Storage:** P403+P233: Store in a dry, well-ventilated area. Keep containers tightly closed.

## Section 3 — Composition/Information on Ingredients

- **Synthetic Calcium Silicate (CAS #1344-95-2):** >90%.
- **Cellulose (CAS #9004-34-6):** 0-4%.

## Section 4 — First-Aid Measures

- **Inhalation:** Remove to fresh air. Seek medical attention if irritation persists.
- **Eye Contact:** Flush with water for 15 minutes. Remove contact lenses if present.

## Section 5 — Fire-Fighting Measures

- **Flammability:** Non-combustible (ASTM E136). 0/0 Flame Spread and Smoke Developed Indices (ASTM E84).
- **Extinguishing Media:** Use media appropriate for surrounding fire

## Section 6 — Accidental Release Measures

- **Cleanup:** Pick up large pieces. Use HEPA-filtered vacuum or wet sweeping of dust. Do **not** use compressed air for cleanup.

## Section 7 — Handling and Storage

- **Handling:** Avoid creating dust. Use good housekeeping to prevent dust accumulation.
- **Storage:** Keep material dry and protected from elements.

## Section 8 — Exposure Controls/Personal Protection

- **Occupational Exposure Limits:**
  - **Calcium Silicate (Synthetic):** OSHA PEL (8-hour TWA) is 15 mg/m<sup>3</sup> for total dust and 5 mg/m<sup>3</sup> for the respirable fraction. ACGIH TLV is 10 mg/m<sup>3</sup> (inhalable fraction).
  - **Cellulose:** OSHA PEL (8-hour TWA) is 15 mg/m<sup>3</sup> for total dust.
- **Engineering Controls:** Use local exhaust ventilation or dust collection systems during fabrication to maintain airborne levels below exposure limits.
- **Personal Protective Equipment (PPE):**
  - **Eye Protection:** Wear safety glasses with side shields or goggles to prevent mechanical irritation from dust.
  - **Skin Protection:** Use leather or cotton gloves and wear long-sleeved clothing to minimize skin contact and irritation.
  - **Respiratory Protection:** If dust concentrations exceed PELs, use a NIOSH-approved N95 particulate respirator.
- **Hygiene Measures:** Wash face and hands thoroughly with soap and water after handling and before eating or smoking.

## Section 9 — Physical & Chemical Properties

- **Appearance and Odor:** Odorless, yellow/tan solid insulation in semi-circle pipe or block form with coloring throughout to indicate asbestos-free product.
- **Solubility:** Insoluble in water.

## Section 10 — Stability & Reactivity

- **Stability:** Stable under normal conditions. No hazardous polymerization.
- **Reactivity:** Non-reactive. No hazardous decomposition.

## Section 11 — Toxicological Information

- **Acute Toxicity:** Mechanical irritation of the skin and eyes. Skin dryness.
- **Chronic Effects:** None known. Contains no asbestos, mercury or lead.
- **Carcinogenicity:** OSHA, NTP, IARC, and ACGIH have not classified this product or its components as a carcinogen.

## Section 12 — Ecological Information

- **Ecotoxicity:** No known adverse effects.

## Section 13 — Disposal Considerations

- **Waste:** Dispose of as a non-hazardous industrial waste per local regulations.

## Section 14 — Transport Information

- **Status:** Not regulated by DOT, IMDG or IATA.

## Section 15 — Regulatory Information

- **TSCA:** All components are listed on the TSCA Inventory.
- **SARA Title III (Section 311/312):** This product does not contain any substances subject to the reporting requirements of SARA Section 313 (40 CFR 372) at or

above de minimis concentrations.

- **California Proposition 65:** This product does not contain chemicals known to the State of California to cause cancer or reproductive toxicity.

## Section 16 — Other Information

- **Updated:** May 7, 2026.
- **Compliance Statement:** This SDS has been updated to meet the OSHA Hazard Communication Standard (2024) and GHS requirements.

*As of the date of preparation of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state law(s). However, no warranty or representation with respect to such information is intended or given.*

**IMPORTANT SAFETY NOTICE:** *The information in this SDS relates only to the specific material described herein and does not relate to use in combination with any other material or substance or in any process. Because of the use of this information and the conditions of use of this product are not within the control of BEC Industrial, it is the user's obligation to determine the conditions of safe use of this product. Users of this product should study this SDS and become aware of the product hazards and safety information before using this product. Users should also notify their employees, agents, and contractors regarding information contained in this SDS and any product hazards and safety information in order to provide for safe use of this product.*