

SAFETY DATA SHEET

According to WHMIS 2015 (Hazardous Products Regulations)

BenchMark Cements
8661 201 St, 2nd Floor, Langley, BC, V2Y 0G9
Phone: 778-879-7925
Emergency (CANUTEC 24h): 1-613-996-6666

SECTION 1 — IDENTIFICATION

Product Identifier: Cement Based Powdered Mixture (Self-Leveling Concrete)

Recommended Use: Construction material; dry mortar; cementitious blend.

Restrictions on Use: Industrial use only. Not for consumer use without proper PPE.

Manufacturer / Supplier: BenchMark Cements, 8661 201 St, 2nd Floor, Langley, BC, Canada V2Y 0G9 | Tel: 778-879-7925

Emergency Phone: CANUTEC (24-hour): 1-613-996-6666 or local emergency services

SECTION 2 — HAZARD IDENTIFICATION

Classification (WHMIS 2015 / HPR):

- Skin Irritation — Category 2
- Eye Irritation — Category 2A
- Specific Target Organ Toxicity (Single Exposure) — Category 3 (Respiratory irritation)
- Carcinogenicity — Category 1A (Crystalline silica)



SIGNAL WORD: DANGER

Hazard Statements:

- Causes skin irritation
- Causes serious eye irritation
- May cause respiratory irritation
- May cause cancer through inhalation

Precautionary Statements:

- Avoid breathing dust.
- Wear protective gloves, eye protection, and respiratory protection.
- Wash hands thoroughly after handling.
- Use only outdoors or in a well-ventilated area.

Other Hazards: Wet cement may cause severe skin burns. Dust may aggravate pre-existing asthma or lung conditions.

SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	% by Weight	CAS Number
Conch silicate cement	15 – 25%	65997-15-1
Sulphoaluminate cement	18 – 30%	65997-16-2
Heavy calcium carbonate	9 – 14%	471-34-1
Quartz sand (crystalline silica)	40 – 52%	7631-86-9

SECTION 4 — FIRST-AID MEASURES

Inhalation: Move to fresh air. Seek medical attention if symptoms persist.

Skin Contact: Brush off dry material. Wash thoroughly with soap and water. Seek medical attention for persistent irritation or chemical burns.

Eye Contact: Rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek immediate medical attention.

Ingestion:

Rinse mouth with water. Do not induce vomiting. Seek medical attention if the person feels unwell.

Key Symptoms/Effects: Eye redness and irritation; skin dryness or burns (when wet); respiratory irritation; long-term inhalation may cause silicosis.

SECTION 5 — FIRE-FIGHTING MEASURES

Flammability: Product is non-combustible.

Extinguishing Media: Use extinguishing media appropriate for surrounding fire conditions.

Specific Hazards: None inherent to the dry product mixture.

Protective Equipment: Firefighters must wear full protective gear and Self-Contained Breathing Apparatus (SCBA).

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid generating or breathing dust. Wear appropriate respirator, chemical-resistant gloves, and safety goggles.

Clean-up Methods: Sweep or vacuum material carefully without creating airborne dust. Do not wash material into municipal drains or waterways. Place collected waste into a clean, dry container for disposal according to local regulations.

SECTION 7 — HANDLING AND STORAGE

Handling: Avoid breathing dust. Ensure handling areas have adequate ventilation. Avoid contact with skin and eyes. Do not eat, drink, or smoke in work areas.

Storage: Store in a cool, dry, well-ventilated area. Keep containers tightly closed. Protect the product from moisture and humidity.

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Limits: Crystalline Silica (Respirable fraction): ACGIH TLV: 0.025 mg/m³; OSHA PEL: 50 µg/m³.

Engineering Controls: Use local exhaust ventilation and dust suppression systems to maintain exposures below occupational limits.

PPE - Respiratory: Wear an N95 or better particulate respirator when handling or mixing dry powder.

PPE - Skin & Eyes: Wear chemical-resistant gloves, protective clothing, and tightly fitting safety goggles or a face shield.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Grey/white powder	Odor: Odorless	pH (wet mixture): 11 – 13
Melting / Boiling Point: Not applicable	Flash Point: Not applicable	Evaporation / Flammability: Not applicable
Vapor Pressure / Density: Not applicable	Solubility: Partially soluble in water	Density / VOC: ~2.5 g/cm ³ / Negligible

SECTION 10 — STABILITY AND REACTIVITY

Stability & Reactivity: Stable under normal storage conditions. Reacts with water to form a strongly alkaline paste.

Incompatible Materials: Strong acids, ammonium salts, and aluminum.

Decomposition: Hazardous decomposition products: None under normal conditions of use.

SECTION 11 — TOXICOLOGICAL INFORMATION

Routes of Exposure: Inhalation, skin contact, eye contact.

Acute Effects: Direct contact causes irritation to eyes, skin, and respiratory tract. Severe exposure to wet mixture can cause chemical burns.

Chronic Effects: Prolonged or repeated inhalation of respirable crystalline silica can cause silicosis. Crystalline silica is classified by IARC as a Group 1 carcinogen (carcinogenic to humans).

SECTION 12 — ECOLOGICAL INFORMATION

Ecotoxicity: Not expected to be acutely toxic to the environment; however, high pH (alkalinity) of wet cementitious material may harm aquatic life if discharged directly.

Persistence / Bioacc.: Not applicable to inorganic mineral components. Not bioaccumulative. Low mobility in dry form.

SECTION 13 — DISPOSAL CONSIDERATIONS

Disposal Methods: Dispose of contents and container in accordance with local, provincial, and federal regulations. Do not flush waste into waterways or sewer systems. Fully cured/hardened material can generally be disposed of as inert construction waste.

SECTION 14 — TRANSPORT INFORMATION

TDG / DOT / IMDG / IATA: Not regulated as dangerous goods for transport. Keep dry during transport.

SECTION 15 — REGULATORY INFORMATION

WHMIS 2015 Status: Compliant with the Hazardous Products Regulations (HPR).

Inventory & Carcinogen: All components listed on Canadian DSL or equivalent. Crystalline silica is listed as a human carcinogen by IARC and NTP.

SECTION 16 — OTHER INFORMATION

Prepared By: BenchMark Cements | **Revision Date:** November 18, 2025

***Disclaimer:** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. BenchMark Cements makes no warranties, express or implied, regarding the accuracy of the data and assumes no liability resulting from its use.*