

Material Safety Data Sheet (MSDS)

BC Plaster M

High-Performance Manual Applied Premixed Cementitious Plaster

1. Identification of the Substance/Preparation and of the Company

Product Name: BC Plaster M

Chemical Family: Cementitious powder blend

Product Type: Premixed cement-based plaster for manual and spray application

Manufacturer: Building Chemistry Industry (BCI)

Emergency Contact: [Insert local emergency contact number]

2. Hazard Identification

Classification according to GHS:

- Skin Irritation, Category 2 (H315)
- Eye Damage, Category 1 (H318)
- Specific Target Organ Toxicity – Single Exposure (Respiratory Tract), Category 3 (H335)

Signal Word: *Danger*

Hazard Statements:

- H315: Causes skin irritation.
- H318: Causes serious eye damage.
- H335: May cause respiratory irritation.

Precautionary Statements:

- P261: Avoid breathing dust.
- P264: Wash hands thoroughly after handling.
- P280: Wear protective gloves, clothing, eye, and face protection.
- P302+P352: IF ON SKIN – Wash with plenty of soap and water.

- P305+P351+P338: IF IN EYES – Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P304+P340: IF INHALED – Remove person to fresh air and keep comfortable for breathing.
- P310: Immediately call a POISON CENTER or doctor/physician.

Other Hazards:

- Contains Portland cement which reacts with water to form alkaline calcium hydroxide.

3. Composition / Information on Ingredients

Component	CAS Number	% by Weight	Classification
Portland Cement	65997-15-1	30–60%	Skin Irrit. 2, Eye Dam. 1, STOT SE 3
Limestone / Calcium Carbonate	1317-65-3	20–40%	Not classified
Silica Sand (Crystalline Quartz)	14808-60-7	10–30%	STOT RE 1 (H372)
Additives (polymers, plasticizers)	Proprietary	<5%	Not classified

4. First Aid Measures

Inhalation: Move to fresh air. Seek medical attention if irritation persists.

Skin Contact: Wash thoroughly with soap and water. Remove contaminated clothing.

Eye Contact: Immediately flush eyes with clean water for at least 15 minutes. Seek medical attention immediately.

Ingestion: Do not induce vomiting. Rinse mouth and drink plenty of water. Seek medical help.

5. Fire Fighting Measures

Suitable Extinguishing Media: Product is non-combustible. Use extinguishing media appropriate to the surrounding fire (foam, CO₂, dry powder, water spray).

Special Hazards: None known; product itself will not burn.

Protective Equipment: Use self-contained breathing apparatus in enclosed areas.

6. Accidental Release Measures

Personal Precautions: Avoid creating dust. Use personal protective equipment (PPE).

Environmental Precautions: Prevent uncontrolled discharge into drains or waterways.

Spill Cleanup: Collect mechanically. Avoid dry sweeping; use vacuum or wet methods to reduce dust formation.

7. Handling and Storage

Handling:

- Avoid contact with skin and eyes.
- Do not breathe dust.
- Use in well-ventilated areas.
- Wash hands before breaks and after work.

Storage:

- Store in a cool, dry, and shaded place.
- Keep bags tightly closed and off the ground.
- Protect from moisture and direct sunlight.
- Shelf Life: 12 months from manufacturing date in unopened packaging.

8. Exposure Controls / Personal Protection

Exposure Limits:

- Portland Cement: 10 mg/m³ (TWA, total dust)
- Respirable Crystalline Silica: 0.1 mg/m³ (TWA)

Engineering Controls:

- Provide local exhaust or general ventilation.

Personal Protective Equipment:

- Respiratory Protection: Dust mask (EN 149 FFP2 or NIOSH N95).
- Eye Protection: Safety goggles or face shield.
- Hand Protection: Chemical-resistant gloves.
- Skin Protection: Long-sleeved clothing and safety footwear.

9. Physical and Chemical Properties

Property	Value
Appearance	Grey powder
Odor	Odorless
pH (wet)	>12 (alkaline)
Bulk Density	~1.40 g/cm ³
Solubility	Slightly soluble in water
Flash Point	Not applicable (non-combustible)
VOC Content	Nil

10. Stability and Reactivity

Stability: Stable under normal conditions.

Conditions to Avoid: Moisture and water before use.

Incompatible Materials: Acids, ammonium salts, aluminum, and reactive metals.

Hazardous Decomposition Products: None under normal use.

11. Toxicological Information

Likely Routes of Exposure: Skin contact, eye contact, inhalation.

Acute Effects: Causes severe eye damage and skin irritation.

Chronic Effects: Prolonged inhalation of silica dust may cause silicosis.
LD50 (oral, rat): Not available (low acute toxicity expected).

12. Ecological Information

Ecotoxicity: Not expected to be hazardous to the environment in solid form.
Persistence and Degradability: Not biodegradable.
Bio accumulative Potential: None known.
Mobility: Low – sets to an inert solid mass in contact with water.

13. Disposal Considerations

Waste Disposal: Dispose of in accordance with local regulations. Avoid release into drains. Hardened material can be treated as inert construction waste.

14. Transport Information

UN Number: Not classified as dangerous goods.
Proper Shipping Name: Not applicable.
Transport Hazard Class: Non-hazardous.
Packaging Group: Not applicable.

15. Regulatory Information

GHS Classification: Irritant / Corrosive (due to cement content).
Local Regulations: Complies with relevant GCC and EU REACH standards for cementitious materials.

16. Other Information

Abbreviations: GHS = Globally Harmonized System, PPE = Personal Protective Equipment, TWA = Time Weighted Average.
Training Advice: Workers handling cementitious materials should receive training in safe handling practices.

DISCLAIMER: The information provided is based on laboratory testing and practical experience. Variations in substrate, application method, and environmental conditions may impact performance. Building Chemistry Industry is only responsible for product replacement in cases of proven manufacturing defect.

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