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For Emergency Product Information Call:  
Director Quality Services (704) 551-5820

**Material Safety Data Sheet**  
**PermaBase® BRAND Cement Board Products**

MSDS No: GB-1504  
Dated: January 26, 2004

**1. Product Identification**

Product Name: **PermaBase PermaBase Flex**  
Use: Underlayment for Ceramic Tile on floors, countertops, EIFS systems  
Generic Descriptions: Gray Cementitious material sandwiched between two layers of fiber mesh with a double wrapped edge

**2. Composition/Information on Hazardous Ingredients**

Contains: <u>Chemical Identity</u>	<u>CAS-NO</u>	<u>Exposure Limits</u>	
		<u>OSHA PEL</u> (mg/m3)	<u>ACGIH TLV</u> (mg/m3)
Portland Cement	65997-15-1	5	10 <sup>A</sup>
High Alumina Cement	65997-16-2	NL	3
Silica (Crystalline)	14808-60-7	B	0.1
Fiberglass Scrim	65997-17-3	5	5

**Contains no asbestos.** HMIS Hazard Class No. 0, 0, 0.

<sup>A</sup> Total dust. All others are respirable dust.

<sup>B</sup> Respirable dust. Use the formula  $\frac{10 \text{ mg/m}^3}{\% \text{ SiO}_2 + 2}$

NL Not Listed

Appearance and Odor: Gray solid with slight organic odor upon opening that dissipates quickly.

**3. Health Hazards Identification**

- Route(s) of Entry: Inhalation and Dermal
- Potential Health Effects: Skin and eye irritant

Crystalline silica (quartz) - The International Agency for Research on Cancer (IARC) classifies crystalline silica inhaled in the form of quartz or cristobalite from occupational sources as carcinogenic to humans, Group 1. The National Toxicology Program (NTP) classifies respirable crystalline silica as a substance, which may be reasonably anticipated to be a carcinogen. OSHA does not regulate crystalline silica as a human carcinogen.

The recommended method of cutting this material is to score and snap. Do not cut with a power saw. Dust generated in cutting with a power saw can also cause irritation to skin, eyes, nose, throat and respiratory system. If dust is generated, use local exhaust ventilation and wear a NIOSH approved particulate respirator and protection for eyes and skin.

Skin Contact: Continued and prolonged contact with dust generated from power cutting or machining this product may result in irritation to the skin.

Eye Contact: Contact with the dust generated from power cutting or machining this product may result in mechanical abrasion.

Inhalation: Target Organ: respiratory system. Exposure to dust generated from power cutting or machining this product may result in impaired lung function.

Signs and Symptoms of Exposure to Airborne Dust: Continued and prolonged exposure to airborne dust concentrations in excess of the PEL/TLV may result in cough, dyspnea, wheezing, and impaired pulmonary function.

Medical Conditions Generally Aggravated by Exposure: Overexposure would generally aggravate respiratory system dysfunctions.

#### 4. **First Aid Measures**

##### **First Aid Procedures:**

- **Eye:** Immediately flush eyes with water for 15 minutes and get medical attention.
- **Skin:** Flush and wash skin with soap and water. Get medical attention if irritation persists.
- **Breathing:** Move the exposed person to fresh air at once. If not breathing initiate pulmonary resuscitation. Get medical attention.

#### 5. **Fire Hazards**

- Not Combustible
- NFPA Hazard Class No: 0/0/0
- Extinguishing Media: Dry chemical, foam, water, fog or spray.

Special Fire Fighting Procedures: Wear full protective equipment and an approved pressure demand self-contained breathing apparatus (SCBA).

#### 6. **Precautions For Safe Handling**

- Steps to be taken in Case Material is Released or Spilled: Pick up to avoid tripping hazard.
- Waste Disposal Method: Dispose of in accordance with applicable federal, state, and local regulations.
- Precautions to be taken in Handling and Storing: Keep clean, dry, flat and away from excessive heat and direct sunlight.

#### 7. **Stability and Reactivity**

- Stability and Reactivity: PermaBase® and PermaBase Flex® are stable and hazardous polymerization will not occur.

#### 8. **Exposure Controls/Personal Protection**

- Work/Hygiene Practices: Avoid creating dust. Use the score and snap method of cutting. Do not use a power saw to cut.
- Ventilation: Provide local exhaust or general ventilation to maintain dust levels below the PEL/TLV.
- Respiratory Protection: A NIOSH approved particulate respirator is recommended if cutting the product with a power saw or handling/cutting generates airborne dust in excess of the PEL/TLV.
- Eye Protection: Safety glasses or goggles when applying the product; goggles if cutting the product with a power saw.

#### 9. **Transport Information**

- DOT: Not regulated

10. **Regulatory Information**  
**SARA Title III Section 313 Ingredients**

None at or above the de minimus level.

11. **Other Information**

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein. This material safety data sheet was prepared to comply with the OSHA Hazard Communication Standard (29 CFR 1910.1200) and with the Workplace Hazardous Materials Information System (WHMIS). This supersedes any previous information.

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