IZONIL WATERPROOF & BREATHABLE PLASTER™

1. Product And Company Identification

**Supplier**
Izonil, LLC
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**Manufacturer**
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**Issue Date:** 04/10/2008

**Product Name:** IZONIL WATERPROOF & BREATHABLE PLASTER™

**CAS Number:** N/A

**Chemical Family:** dry mortar with hydraulic binder, quartz-sand additive and cement

**MSDS Number:** 849

**Product/Material Uses**
Izonil Waterproof & Breathable Plaster provides a completely waterproof barrier, sealing and preventing in the ingress of water on either side of the plaster while remaining air-permeable. It consists of a factory-prepared mixture of Type I or II Portland Cement complying with UBC (1997 Uniform Building Code TM) 21.403, sand complying with ASTM C 144, fibers and proprietary additives.

2. Composition/Information On Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS Number</th>
<th>Percent Of Total Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>calcium oxide</td>
<td>1305-78-8</td>
<td></td>
</tr>
<tr>
<td>Portland cement</td>
<td>65997-15-1</td>
<td></td>
</tr>
<tr>
<td>proprietary additives</td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>sand</td>
<td>60676-86-0</td>
<td></td>
</tr>
<tr>
<td>silica, quartz</td>
<td>14808-60-7</td>
<td></td>
</tr>
</tbody>
</table>

Cement is made from materials mined from the earth. Trace amounts of chemicals may be detected during analysis, including calcium oxide, magnesium oxide, calcium silicates, calcium sulfate, calcium carbonate, sodium sulfate and hexavalent chromium in trace amounts.

3. Hazards Identification

**Primary Routes(s) Of Entry**
inhalation, skin & eye contact

**Eye Hazards**
Contact with eyes may cause irritation or inflammation.
### 3. Hazards Identification

**Skin Hazards**
Contact with skin, particularly moist skin, can result in irritation or burns.

**Ingestion Hazards**
Ingestion of large enough amounts cause significant health hazards is considered unlikely. However, accidental ingestion of small amounts may cause irritation of the mouth, throat and gastrointestinal tract, resulting in stomach upset. Ingestion of large amounts may cause chemical burns.

**Inhalation Hazards**
Inhalation of dust may cause irritation to the nose, throat and respiratory tract. Symptoms may include coughing, sneezing, shortness of breath, chest pain, and decreased respiratory capacity.

Ingredients of cement and sand contain trace amounts of crystalline silica, a human carcinogen - Prolonged or repeated exposure to fine airborne crystalline silica dust may cause severe scarring of the lungs.

### 4. First Aid Measures

**Eye**
In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately if irritation develops.

**Skin**
DO NOT shake or blow dust off clothing or the body. In case of contact, wash skin with soap and water.

**Ingestion**
If swallowed, do not induce vomiting unless directed to do so by medical personnel. If victim is fully conscious, give one or two cups of water or milk to drink. Never give anything by mouth to an unconscious victim. If vomiting occurs naturally, repeat administration of water. Get medical attention immediately.

**Inhalation**
Remove person from source of exposure to fresh air. Get medical attention if irritation or other symptoms develop.

### 5. Fire Fighting Measures

**Flash Point Method:** Non-flammable

**Extinguishing Media**
Use the appropriate extinguishing media for the surrounding fire.

**Fire Fighting Instructions**
The use of self-contained breathing apparatus is recommended to limit exposure to smoke from any combustion products. Avoid breathing dust.

### 6. Accidental Release Measures

Pick up released product with appropriate implements and return to original container if reusable. Avoid generating dust. Avoid inhalation and skin contact. Do not attempt to wash down drains.

### 7. Handling And Storage

**Handling And Storage Precautions**
Use only with adequate ventilation, especially when mixing in a confined area. Avoid generating dust. Keep product dry until use. Promptly remove dusty clothing and launder before reuse. Wash thoroughly after handling.

### 8. Exposure Controls/Personal Protection

**Engineering Controls**
Maintain exposures below occupational exposure limits. Use with adequate general and local exhaust ventilation.

**Eye/Face Protection**
Wear safety glasses with side shields or goggles.
8. Exposure Controls/Personal Protection

**Skin Protection**
Wear protective gloves, boots and clothing to minimize skin contact. Wash periodically with soap and water. Vacuum or rinse dust from clothing - do not use compressed air.*

**Respiratory Protection**
Engineering controls should be implemented preferentially to reduce exposures. In case of inadequate ventilation, use NIOSH-approved respirator for dust, such as an N95 or N100 dust respirator.

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>calcium oxide</td>
<td>ACGIH TLV-TWA: 2 mg/m³</td>
</tr>
<tr>
<td></td>
<td>OSHA PEL-TWA: 5 mg/m³</td>
</tr>
<tr>
<td>Portland cement</td>
<td>ACGIH TLV-TWA: 10 mg/m³</td>
</tr>
<tr>
<td></td>
<td>OSHA PEL-TWA: 15 mg/m³, total dust</td>
</tr>
<tr>
<td></td>
<td>OSHA PEL-TWA: 5 mg/m³, respirable dust</td>
</tr>
<tr>
<td>sand</td>
<td>OSHA PEL-TWA: 30 / (%SiO₂ + 2) mg/m³, total dust</td>
</tr>
<tr>
<td></td>
<td>OSHA PEL-TWA: 10 / (%SiO₂ + 2) mg/m³, respirable dust</td>
</tr>
<tr>
<td>silica, quartz</td>
<td>ACGIH TLV-TWA: 0.05 mg/m³, respirable</td>
</tr>
<tr>
<td></td>
<td>OSHA PEL-TWA 10/%SiO₂+2 mg/m³, respirable</td>
</tr>
<tr>
<td></td>
<td>OSHA PEL-TWA 30/%SiO₂+2 mg/m³, total dust</td>
</tr>
</tbody>
</table>

* To minimize exposure to respirable airborne crystalline silica, occupational health and safety regulations generally require measures, such as work practice controls, personal hygiene practices, protective clothing and respiratory protection, to minimize exposures below occupational limits.

9. Physical And Chemical Properties

**Appearance**
Gray dust

**Odor**
Odorless or slightly irritating odor

**Chemical Type:** Mixture
**Physical State:** Solid
**Percent Volatiles:** 0
**Packing Density:** approx. 1530 kg/m³
**pH Factor:** 12.5
**Solubility:** slight - solidifies with addition of water

10. Stability And Reactivity

**Stability:** stable
**Hazardous Polymerization:** will not occur

**Conditions To Avoid (Stability)**
Avoid contact with water or excessive moisture

**Incompatible Materials**
Creates an alkaline reaction with water. Dissolves in hydrofluoric acid producing corrosive silicon tetrafluoride gas. Silicates react with strong oxidizers, such as fluorine, chlorine trifluoride and oxygen difluoride.
11. Toxicological Information

**Chronic/Carcinogenicity**

Cements and sand can contain trace amounts of crystalline silica. Cements can also contain trace amounts of hexavalent chromium. Both are classified as a human carcinogens:

- * International Agency for Research on Cancer (IARC) - Group 1 known human carcinogen
- * National Toxicology Program (NTP) - known human carcinogen
- * American Conference of Governmental Industrial Hygienists (ACGIH) - Crystalline silica is a group A2 suspect human carcinogen; hexavalent chromium is a group A1 known human carcinogen.

Crystalline silica can cause silicosis, a seriously disabling and possibly fatal lung disease. Silicosis increases the risk of tuberculosis.

12. Ecological Information

**Other Environmental Information**

When hardened, product is harmless to the environment. Because of its high pH value, do not allow product to enter sewers or waterways in large amounts.

13. Disposal Considerations

Hardened product is not normally regulated. Dispose in accordance with applicable federal, state and local government regulations. Waste must not be put down drains, sewers or waterways. Due to its high pH, bulk disposal of unused product may be considered as hazardous waste for disposal purposes.

14. Transport Information

**Proper Shipping Name**

Not regulated as a Hazardous Material under U.S. DOT or Canadian TDG regulations.

15. Regulatory Information

**U.S. Regulatory Information**

This product is considered to be a hazardous chemical by OSHA/MSHA and should be included in the employer's Hazard Communication program.

**SARA Hazard Classes**

- Acute Health Hazard
- Chronic Health Hazard

**SARA Section 313 Notification**

This product does not contain any ingredients regulated under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 or 40 CFR 372.

**Ingredient(s) - State Regulations**

- calcium oxide
  - New Jersey - Workplace Hazard
  - Pennsylvania - Workplace Hazard
- Portland cement
  - New Jersey - Workplace Hazard
  - Pennsylvania - Workplace Hazard
- sand
  - New Jersey - Workplace Hazard
- silica, quartz
  - New Jersey - Workplace Hazard
  - Pennsylvania - Workplace Hazard
15. Regulatory Information

**Ingredient(s) - State Regulations**
- California - Proposition 65
- Massachusetts - Hazardous Substance

**Ingredient(s) - Canadian Regulatory Information**
- calcium oxide
  - WHMIS - Ingredient Disclosure List
- silica, quartz
  - WHMIS - Ingredient Disclosure List

**European Union (EU) Regulatory Information**
- European Union Risk Phrases -
  - R36/38 - Irritating to eyes and skin.
  - R43 - May cause sensitization by skin contact
- European Union Safety Phrases -
  - S1/2 - Keep locked up and out of reach of children
  - S22 - Do not breathe dust
  - S24/25 - Avoid contact with skin and eyes
  - S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
  - S28 - After contact with skin, wash immediately with plenty of soap and water
  - S37 - Wear suitable gloves

16. Other Information

**NFPA Rating**
- Health: 0
- Fire: 0
- Reactivity: 0

**HMIS Rating**
- Health: *2
- Fire: 0
- Reactivity: 0

Disclaimer

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Izonil, LLC