



# MATERIAL SAFETY DATA SHEET

## IZONIL WATERPROOF & BREATHABLE PLASTER™

<b>1. Product And Company Identification</b>	
<b>Supplier</b> Izonil, LLC P.O. Box 3271 Livermore, CA 94551  <b>E-Mail:</b> info.us@izonil.com <b>Web Site:</b> www.izonil.com	<b>Manufacturer</b> Izonil, LLC P.O. Box 3271 Livermore, CA 94551  <b>E-Mail:</b> info.us@izonil.com <b>Web Site:</b> www.izonil.com
<b>Supplier Emergency Contacts &amp; Phone Number</b> Izonil Technical Dept.: 888-249-6645	<b>Manufacturer Emergency Contacts &amp; Phone Number</b> Izonil Technical Dept.: 888-249-6645

**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.

<b>2. Composition/Information On Ingredients</b>			
Ingredient Name	CAS Number		Percent Of Total Weight
calcium oxide	1305-78-8		
Portland cement	65997-15-1		
proprietary additives	NA		
sand	60676-86-0		
silica, quartz	14808-60-7		
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.			

**EMERGENCY OVERVIEW**

**CAUTION: IRRITANT, CORROSIVE**

May be very irritating to moist skin and the eyes upon contact. Inhalation of dust is irritating to the nose, throat and upper airways. Prolonged exposure to wet cement or to dry cement on moist skin can cause serious chemical burns. Dust may contain crystalline silica causing lung damage - avoid inhalation of dust.

<b>3. Hazards Identification</b>
<b>Primary Routes(s) Of Entry</b> inhalation, skin & eye contact
<b>Eye Hazards</b> Contact with eyes may cause irritation or inflammation.

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### 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 laundry 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.

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### 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.

#### Ingredient(s) - Exposure Limits

calcium oxide

ACGIH TLV-TWA: 2 mg/m<sup>3</sup>

OSHA PEL-TWA: 5 mg/m<sup>3</sup>

Portland cement

ACGIH TLV-TWA: 10 mg/m<sup>3</sup>

OSHA PEL-TWA: 15 mg/m<sup>3</sup>, total dust

OSHA PEL-TWA: 5 mg/m<sup>3</sup>, respirable dust

sand

OSHA PEL-TWA: 30 / (%SiO<sub>2</sub> + 2) mg/m<sup>3</sup>, total dust

OSHA PEL-TWA: 10/ (%SiO<sub>2</sub> + 2) mg/m<sup>3</sup>, respirable dust

silica, quartz

ACGIH TLV-TWA: 0.05 mg/m<sup>3</sup>, respirable

OSHA PEL-TWA 10/%SiO<sub>2</sub>+2 mg/m<sup>3</sup>, respirable

OSHA PEL-TWA 30/%SiO<sub>2</sub>+2 mg/m<sup>3</sup>, total dust

\* 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/m<sup>3</sup>

**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.

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### 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

Massachusetts - Hazardous Substance

New York City - Hazardous Substance

Portland cement

New Jersey - Workplace Hazard

Pennsylvania - Workplace Hazard

sand

New Jersey - Workplace Hazard

Massachusetts - Hazardous Substance

silica, quartz

New Jersey - Workplace Hazard

Pennsylvania - Workplace Hazard

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### 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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