Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: WonderBoard® Backerboard 1/4” & 1/2"
Product Use: Cement board.
Manufacturer/Supplier: Custom Building Products
13001 Seal Beach Blvd
Seal Beach, CA 90740
Phone Number: (562) 598-8808
Emergency Phone: INFOTRAC 1-800-535-5053 (US and Canada)
INTERNATIONAL + 1-352-323-3500
Date of Preparation: March 27, 2012
Revision Date: March 27, 2012

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION
Cutting, sanding, or otherwise working with this product may generate large amounts of dust. Dust can be irritating to the eyes, skin, and respiratory system.

Potential Health Effects: See Section 11 for more information.

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

Eye: Dust may cause eye irritation.
Skin: Dust may cause skin irritation.
Ingestion: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.
Inhalation: Dust may cause respiratory tract irritation.

Chronic Effects: Prolonged or repeated contact may dry skin and cause irritation.

Signs and Symptoms: Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Medical Conditions Aggravated By Exposure: Because of irritating properties, dust and glass fibers may aggravate preexisting skin, eye, and respiratory conditions.

Target Organs: Skin, eyes and respiratory system.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential Environmental Effects: May cause long-term adverse effects in the aquatic environment. See Section 12 for more information.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS #</th>
<th>Wt. %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portland cement</td>
<td>65997-15-1</td>
<td>10 - 30</td>
</tr>
<tr>
<td>Silica, crystalline, quartz</td>
<td>14808-60-7</td>
<td>3 - 7</td>
</tr>
<tr>
<td>Calcium carbonate</td>
<td>1317-65-3</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Fiberglass</td>
<td>65997-17-3</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>
Section 4: FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.

Skin Contact: If irritation occurs, flush skin with plenty of water. Get medical attention if irritation persists.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Ingestion: May result in obstruction and irritation if ingested. Get medical attention.

General Advice: In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).

Note to Physicians: Symptoms may not appear immediately.

Section 5: FIRE FIGHTING MEASURES

Flammability: Not flammable by WHMIS/OSHA criteria.

Means of Extinction:

Suitable Extinguishing Media: Powder, water spray, foam, carbon dioxide.

Unsuitable Extinguishing Media: Not available.

Products of Combustion: May include, and are not limited to: oxides of carbon.

Explosion Data:

Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available.

Protection of Firefighters: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental Precautions: Keep out of drains, sewers, ditches, and waterways.

Methods for Containment: Pick up large pieces, then place in a suitable container. Use appropriate Personal Protective Equipment (PPE).

Methods for Clean-Up: Scoop up material and place in a disposal container. Use wet methods, if appropriate, to minimize dust

Other Information: Not available.

Section 7: HANDLING AND STORAGE

Handling:
Avoid contact with skin and eyes. Do not breathe dust. Use only in well-ventilated areas, use mechanical ventilation, or work outdoors. Launder contaminated clothing before reuse. When using do not eat or drink. Wash hands before eating, drinking, or smoking.

Storage:
Keep out of the reach of children. Store in dry area.
Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>OSHA-PEL</th>
<th>ACGIH-TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portland cement</td>
<td>15 mg/m³ (total); 5 mg/m³ (resp)</td>
<td>1 mg/m³ (no asbestos and &lt;1% crystalline silica respirable fraction)</td>
</tr>
<tr>
<td></td>
<td>((10 mg/m³)/(%SiO₂+2) (resp));</td>
<td></td>
</tr>
<tr>
<td></td>
<td>((30 mg/m³)/(%SiO₂+2) (total));</td>
<td></td>
</tr>
<tr>
<td>Silica, crystalline, quartz</td>
<td>((250)/(%SiO₂+5) mppcf (resp))</td>
<td>0.025 mg/m³</td>
</tr>
<tr>
<td>Calcium carbonate</td>
<td>15 mg/m³ (total); 5 mg/m³ (resp)</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>Fiberglass</td>
<td>15 mg/m³ (total)</td>
<td>10 mg/m³ (total)</td>
</tr>
</tbody>
</table>

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Personal Protective Equipment:
- Eye/Face Protection: Wear eye/face protection.
- Hand Protection: Wear suitable gloves.
- Skin and Body Protection: Wear suitable protective clothing.
- Respiratory Protection: Wear appropriate NIOSH approved dust mask or filtering facepiece if dust is generated.

General Hygiene Considerations: Handle according to established industrial hygiene and safety practices.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

- Appearance: Solid board.
- Color: White to gray.
- Odour: Low to no odour.
- Odour Threshold: Not available.
- Physical State: Solid.
- pH: Not available.
- Viscosity: Not available.
- Freezing Point: Not available.
- Boiling Point: Not available.
- Flash Point: Not available.
- Evaporation Rate: Not available.
- Lower Flammability Limit: Not available.
- Upper Flammability Limit: Not available.
- Vapor Pressure: Not available.
- Vapor Density: Not available.
- Specific Gravity: 0.9 - 1.2
- Solubility in Water: Not available.
- Coefficient of Water/Oil Distribution: Not available.
MATERIAL SAFETY DATA SHEET
WonderBoard® Backerboard 1/4” & 1/2”

Auto-ignition Temperature: Not available.
Percent Volatile, wt. %: Not available.
VOC content, wt. %: 0%, Not applicable; 0 wt, Not applicable.

Section 10: STABILITY AND REACTIVITY

Stability: Stable under normal storage conditions.
Incompatible Materials: None known.
Hazardous Decomposition Products: May include, and are not limited to: oxides of carbon.
Possibility of Hazardous Reactions: No dangerous reaction known under conditions of normal use.

Section 11: TOXICOLOGY INFORMATION

EFFECTS OF ACUTE EXPOSURE

Component Analysis

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>LD$_{50}$ (oral)</th>
<th>LC$_{50}$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portland cement</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Silica, crystalline, quartz</td>
<td>120 g/kg, rat (TD$_{50}$)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Calcium carbonate</td>
<td>6450 mg/kg, rat</td>
<td>Not available.</td>
</tr>
<tr>
<td>Fiberglass</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Eye: Dust may cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Skin: Dust may cause skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Ingestion: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

Inhalation: Dust may cause respiratory tract irritation.

EFFECTS OF CHRONIC EXPOSURE

Target Organs: Silica may cause cancer or delayed lung injury (silicosis) if inhaled.

Carcinogenicity: Hazardous by WHMIS/OSHA criteria.

Ingredient

<table>
<thead>
<tr>
<th>Chemical Listed as Carcinogen or Potential Carcinogen *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portland cement</td>
</tr>
<tr>
<td>Silica, crystalline, quartz</td>
</tr>
<tr>
<td>Calcium carbonate</td>
</tr>
<tr>
<td>Fiberglass</td>
</tr>
</tbody>
</table>

* See Section 15 for more information.

Mutagenicity: Not hazardous by WHMIS/OSHA criteria.

Reproductive Effects: Not hazardous by WHMIS/OSHA criteria.

Developmental Effects:

Teratogenicity: Not hazardous by WHMIS/OSHA criteria.

Embryotoxicity: Not hazardous by WHMIS/OSHA criteria.

Respiratory Sensitization: Not hazardous by WHMIS/OSHA criteria.
Skin Sensitization: Not hazardous by WHMIS/OSHA criteria.
Toxicologically Synergistic Materials: Not available.

**Section 12: ECOLOGICAL INFORMATION**

Ecotoxicity: May cause long-term adverse effects in the aquatic environment.
Persistence / Degradability: Not available.
Bioaccumulation / Accumulation: Not available.
Mobility in Environment: Not available.

**Section 13: DISPOSAL CONSIDERATIONS**

Disposal Instructions:
This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

**Section 14: TRANSPORTATION INFORMATION**

DOT Ground Classification
Not regulated
TDG Ground Classification
Not regulated
IATA Classification
Not regulated
IMDG Classification
Not regulated

**Section 15: REGULATORY INFORMATION**

Federal Regulations

**Canadian:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.


**SARA Title III**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Section 302 (EHS) TPQ (lbs.)</th>
<th>Section 304 EHS RQ (lbs.)</th>
<th>CERCLA RQ (lbs.)</th>
<th>Section 313</th>
</tr>
</thead>
</table>

**State Regulations**

**California Proposition 65:**
This product contains a chemical or chemicals known to the State of California to cause cancer.
Global Inventories

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Canada</th>
<th>USA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portland cement</td>
<td>DSL</td>
<td>Yes.</td>
</tr>
<tr>
<td>Silica, crystalline, quartz</td>
<td>DSL</td>
<td>Yes.</td>
</tr>
<tr>
<td>Calcium carbonate</td>
<td>NDSL</td>
<td>Yes.</td>
</tr>
<tr>
<td>Fiberglass</td>
<td>DSL</td>
<td>Yes.</td>
</tr>
</tbody>
</table>

All ingredients are on DSL/NDSL and TSCA inventories or are exempt from listing.

HMIS - Hazardous Materials Identification System

- Health - 1*
- Flammability - 1
- Physical Hazard - 0
- PPE – E

NFPA - National Fire Protection Association:

- Health - 1
- Fire - 1
- Reactivity - 0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

WHMIS Classification(s):

- Class D2A - Carcinogenicity
- Class D2A - Chronic Toxic Effects

WHMIS Hazard Symbols:

![WHMIS Symbol]

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

OSHA (O) Occupational Safety and Health Administration.

ACGIH (G) American Conference of Governmental Industrial Hygienists.

- A2 - Suspected human carcinogen.
- A3 - Animal carcinogen.
- A4 - Not classifiable as a human carcinogen.
- A5 - Not suspected as a human carcinogen.

IARC (I) International Agency for Research on Cancer.

- 1 - The agent (mixture) is carcinogenic to humans.
- 2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.
- 2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.
- 3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.
- 4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N) National Toxicology Program.

- 1 - Known to be carcinogens.
- 2 - Reasonably anticipated to be carcinogens.
Disclaimer:
The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user’s responsibility to satisfy oneself as to the suitability and completeness of this information for the user’s own particular use.

Expiry Date:  March 27, 2015

Version #:  1.0

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