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## SAFETY DATA SHEET

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### Section 1: IDENTIFICATION

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#### 1.1 PRODUCT IDENTIFIER

**Product Name:** Versabond<sup>®</sup> Fortified Thin-set Mortar

**Product Code:** Not Available

#### 1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

**Product Use:** Mortar

#### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEETS

**Name/Address:** Custom Building Products  
3490 Piedmont Road, Suite 1300  
Atlanta, GA 30329

**Telephone Number:** (562)-598-8808

#### 1.4 EMERGENCY TELEPHONE NUMBER

**Emergency Telephone Number:** INFOTRAC 1-800-535-5053 (US and Canada)  
INTERNATIONAL + 1-352-323-3500

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### Section 2: HAZARD(S) IDENTIFICATION

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#### 2.1 CLASSIFICATION OF THE CHEMICAL IN ACCORDANCE WITH PARAGRAPH (d) OF 29 CFR

1910.1200 (OSHA HAZCOM2012)

Skin Irritation	Category 2
Serious Eye Damage	Category 1
Skin sensitization	Category 1B
STOT-SE	Category 3
STOT-RE	Category 1
Carcinogenicity	Category 1A

#### 2.2 LABEL ELEMENTS ACCORDING TO OSHA HAZCOM2012

**2.2a SIGNAL WORD:**  
DANGER!

**2.2b HAZARD STATEMENTS**  
Causes skin irritation  
Causes serious eye damage  
May cause an allergic skin reaction

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May cause respiratory irritation  
 Causes damage to organs through prolonged or repeated exposure  
 May cause cancer

### 2.2c HAZARD PICTOGRAMS



### 2.2d PRECAUTIONARY STATEMENTS

<b>i. PREVENTION</b>	Wash hands thoroughly after handling. Do not breathe dust/fume/gas/mist/ vapors/spray. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear impervious gloves/protective clothing/eye protection/face protection.
<b>ii. RESPONSE</b>	If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: call a poison center/doctor. If exposed or concerned: get medical advice/attention
<b>iii. STORAGE</b>	Store in a well-ventilated place. Keep container tightly closed.
<b>iv. DISPOSAL</b>	Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations.

### 2.3 ADDITIONAL INFORMATION

#### 2.3a HNOC – HAZARDS NOT OTHERWISE CLASSIFIED

Not applicable

#### 2.3b UNKNOWN ACUTE TOXICITY

57% of the mixture consists of ingredient(s) of unknown acute toxicity.

#### 2.3c WHMIS CLASSIFICATION

Class D2B – Skin/Eye Irritant  
 Class D2A – Chronic Toxic Effects  
 Class D2A - Carcinogenicity  
 Class E – Corrosive Material

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### 2.3d LABEL ELEMENTS ACCORDING TO WHMIS

#### i. WHMIS HAZARD SYMBOLS



#### ii. SIGNAL WORD DANGER!

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 MIXTURES

Chemical Name	CAS Number	Weight %
Crystalline Silica, Quartz	14808-60-7	30 – 60%*
Portland Cement	65997-15-1	15 – 40%*
Calcium Carbonate	1317-65-3	10 – 30%*
Gypsum	7778-18-9	1 – 5%*

\*Means that the component will fall into one the ranges specified due to batch-to-batch variability.

### Section 4: FIRST-AID MEASURES

#### 4.1 DESCRIPTION OF THE FIRST-AID MEASURES

ROUTES OF EXPOSURE	DESCRIPTION
<b>Eye Contact:</b>	In case of contact, immediately flush eyes with plenty of water for several minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
<b>Skin Contact:</b>	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
<b>Inhalation:</b>	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
<b>Ingestion:</b>	If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

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### 4.2 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

ROUTES OF EXPOSURE	DESCRIPTION
<b>Eye Contact:</b>	Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
<b>Skin Contact:</b>	Causes skin irritation. Handling can cause dry skin, discomfort, irritation, and dermatitis. May cause sensitization by skin contact.
<b>Inhalation:</b>	May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a serious disabling and fatal lung disease.
<b>Ingestion:</b>	May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

### 4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Not applicable

## Section 5: FIRE-FIGHTING MEASURES

### 5.1 FLAMMABILITY

**Flammability:** Not Flammable by WHMIS/OSHA HAZCOM2012 Criteria

### 5.2 EXTINGUISHING MEDIA

**5.2a. Suitable Extinguishing Media:**  
Treat for surrounding material.

**5.2b. Unsuitable Extinguishing Media:**  
Not available.

### 5.3 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

**5.3a. Products of Combustion:**  
May include, and are not limited to: oxides of carbon and hydrogen sulfide

**5.3b. Explosion Data**

i. **Sensitivity to Mechanical Impact:**

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- Not available.
- ii. **Sensitivity to Static Discharge:**  
Not available.

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### Section 6: ACCIDENTAL RELEASE MEASURES

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#### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

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

#### 6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

**Methods for Containment:** Recover all usable material. Pick up large pieces, and then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

**Methods for Cleaning-Up:** Vacuum or sweep material and place in a disposal container. Dispose of unwanted material properly in accordance with all local, regional, national and international regulations.

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### Section 7: HANDLING AND STORAGE

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#### 7.1 PRECAUTIONS FOR SAFE HANDLING

**Handling:** Use in well-ventilated areas. Wear impervious gloves and eye protection. Do not mix with other chemical products, except as indicated by the manufacturers. Do not get in eyes. Do not get on skin or clothing. Do not breathe fumes. Do not take internally. Good housekeeping is important to prevent accumulation of dust.

**General Hygiene Advice:** Use good industrial hygiene practices and wear recommended personal protection. Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

#### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

**Storage:** Keep out of the reach of children. Keep container tightly closed. Store at room temperature and keep containers closed when not in use. Avoid any dust buildup by frequent cleaning and suitable construction of the storage area. Keep dry until use.

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### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### 8.1 CONTROL PARAMETER Exposure Guidelines

Occupational Exposure Limits		
Chemical Name	OSHA-PEL	ACGIH-TLV
Crystalline Silica, Quartz	0.1 mg/m <sup>3</sup>	0.025 mg/m <sup>3</sup>
Portland cement	5 mg/m <sup>3</sup> (resp.) 15 mg/m <sup>3</sup> (total)	10 mg/m <sup>3</sup> (resp.)
Calcium Carbonate	5 mg/m <sup>3</sup> (Resp.) 15 mg/m <sup>3</sup> (Total)	5 mg/m <sup>3</sup> (Resp.)
Gypsum	10 mg/m <sup>3</sup> (Resp.) 15 mg/m <sup>3</sup> (Total)	10 mg/m <sup>3</sup>

### 8.2 EXPOSURE CONTROLS

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

### 8.3 INDIVIDUAL PROTECTION MEASURES

#### 8.3a. Personal Protective Equipment:

- i. **Eye/Face Protection:** Wear approved eye protection [properly fitted dust- or splash-proof chemical safety goggles/face (face shield)]
- ii. **Skin Protection:**
  1. **Hand Protection:** Wear impervious gloves.
  2. **Body Protection:** Wear suitable protective clothing
- iii. **Respiratory Protection:** A NIOSH approved dust mask or filtering face piece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).
- iv. **General Health and Safety Measures:** Handle according to established industrial hygiene and safety practices.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance (physical state, color, etc.):</b>	Solid Powder (Gray or White)
<b>Odor:</b>	Characteristic
<b>Odor Threshold:</b>	Not available
<b>pH:</b>	10 – 12.5 when wet
<b>Melting point/Freezing point:</b>	Not available

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<b>Initial boiling point and boiling range:</b>	Not available
<b>Flash point:</b>	> 212°F
<b>Evaporation rate (Water=1):</b>	Not available
<b>Flammability:</b>	Not flammable
<b>Upper Flammability/Explosive Limit:</b>	Not available
<b>Lower Flammability/Explosive Limit:</b>	Not available
<b>Vapor Pressure</b>	Not available
<b>Vapor Density:</b>	Not available
<b>Relative Density:</b>	2 – 3 g/cc
<b>Solubility in Water:</b>	Slightly Soluble
<b>Partition coefficient: n-octanol/water:</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition Temperature:</b>	Not available
<b>Viscosity (cps):</b>	Not available
<b>VOC Content:</b>	0 g/L (0%)

### Section 10: STABILITY AND REACTIVITY

**10.1. REACTIVITY**

No dangerous reaction known under conditions of normal use.

**10.2. CHEMICAL STABILITY**

Stable under normal storage conditions. Keep dry in storage.

**10.3. POSSIBILITY OF HAZARDOUS REACTION**

No dangerous reaction known under conditions of normal use.

**10.4. CONDITIONS TO AVOID**

Heat. Incompatible materials.

**10.5. INCOMPATIBLE MATERIALS**

Strong acids. Strong Oxidizers.

**10.6. HAZARDOUS DECOMPOSITION PRODUCTS**

Upon decomposition, this product may yield oxides of carbon and hydrogen sulfide.

### Section 11: TOXICOLOGICAL INFORMATION

**11.1. LIKELY ROUTES OF EXPOSURE:**

Skin contact, skin absorption, eye contact, inhalation, and ingestion.

**11.2. SYMPTOMS RELATED TO PHYSICAL/CHEMICAL/TOXICOLOGICAL CHARACTERISTICS:**

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- Eye Contact:** Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
- Skin Contact:** Causes skin irritation. Handling can cause dry skin, discomfort, irritation, and dermatitis. May cause sensitization by skin contact.
- Inhalation:** May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a serious disabling and fatal lung disease.
- Ingestion:** May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

Acute Toxicity		
Chemical Name	LC50	LD50
Crystalline Silica, Quartz	Not available	Not available
Portland cement	Not available	Not available
Calcium Carbonate	Not available	Oral: 6450 mg/kg, rat
Gypsum	Not available	Not available

Carcinogenicity	
Chemical Name	Chemical Listed as Carcinogens or Potential Carcinogen (NTP, IARC, OSHA, ACGIH, CP65)
Crystalline Silica, Quartz	N-A2, I-1, O-1, ACGIH-A2, CP65
Portland cement	ACGIH-A4
Calcium Carbonate	Not Listed
Gypsum	Not Listed

### 11.3. DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT AND LONG-TERM EXPOSURE

SHORT-TERM	
<b>Skin Corrosion/Irritation:</b>	Causes skin irritation
<b>Serious Eye Damage/Irritation:</b>	Causes severe eye damage
<b>Respiratory Sensitization:</b>	Not available
<b>Skin Sensitization:</b>	May cause an allergic skin reaction
<b>STOT-Single Exposure:</b>	May cause respiratory irritation
<b>Aspiration Hazard:</b>	Not available
LONG-TERM	
<b>Carcinogenicity:</b>	May cause cancer
<b>Germ Cell Mutagenicity:</b>	Not available
<b>Reproductive Toxicity:</b>	Not available



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<b>STOT-Repeated Exposure:</b>	Causes damage to organs through prolonged or repeated exposure
<b>Synergistic/Antagonistic Effects:</b>	Not available

### Section 12: ECOLOGICAL INFORMATION

**12.1. ECOTOXICITY**

May cause long-term adverse effects to the aquatic environment. Keep from entry into sewers and waterways.

Ecotoxicity		
Chemical Name	EC50/NOEC-48 Hours	LC50/NOEC-96 Hours
Crystalline Silica, Quartz	Not available	Not available
Portland cement	Not available	Not available
Calcium Carbonate	Not available	Not available
Gypsum	Not available	Not available

**12.2. PERSISTENCE AND DEGRADABILITY**

Not available

**12.3. BIOACCUMULATIVE POTENTIAL**

Not available

**12.4. MOBILITY IN SOIL**

Not available

**12.5. OTHER ADVERSE EFFECTS**

Not available

### Section 13: DISPOSAL CONSIDERATIONS

**13.1. DISPOSAL METHOD**

Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations

**13.2. OTHER DISPOSAL CONSIDERATIONS**

Not available

### Section 14: TRANSPORT INFORMATION

DOT (U.S.)	TDG (CANADA)
UN NUMBER:	UN NUMBER:

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Not regulated	Not regulated
<b>UN PROPER SHIPPING NAME:</b>	<b>UN PROPER SHIPPING NAME:</b>
Not regulated	Not regulated
<b>TRANSPORT HAZARD CLASS (ES):</b>	<b>TRANSPORT HAZARD CLASS (ES):</b>
Not regulated	Not regulated
<b>PACKING GROUP (if applicable):</b>	<b>PACKING GROUP (if applicable):</b>
Not regulated	Not regulated

**SUMMARY:** Product is not regulated under DOT/TDG and other transportation regulations.

**14.1. ENVIRONMENTAL HAZARDS**

Not available

**14.2. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE**

Not available

**14.3. SPECIAL PRECAUTIONS FOR USER**

Do not handle until all safety precautions have been read and understood.

### Section 15: REGULATORY INFORMATION

**15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATIONS SPECIFIC FOR THE CHEMICAL**

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

**US:** SDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

**15.2. US FEDERAL INFORMATION:**

CHEMICAL NAME	SARA TITLE III			
	SECTION 302 (EHS) TPQ (LBS)	SECTION 304 EHS RQ (LBS)	CERCLA RQ (LBS)	SECTION 313 (TRI)
Crystalline Silica, Quartz	Not Listed	Not Listed	Not Listed	Not Listed
Portland cement	Not Listed	Not Listed	Not Listed	Not Listed
Calcium Carbonate	Not Listed	Not Listed	Not Listed	Not Listed
Gypsum	Not Listed	Not Listed	Not Listed	Not Listed

**15.3. US STATE RIGHT TO KNOW LAWS:**

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<b>California Proposition 65:</b>	<b>WARNING!</b> This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm
<b>Other U.S. States "Right to Know" Lists:</b>	
<b>New Jersey:</b>	Silica, quartz: <b>CAS#14808-60-7</b> Silicate, Portland cement: <b>CAS#65997-15-1</b> Calcium carbonate: <b>CAS#1317-65-3</b> Gypsum (Calcium Sulfate): <b>CAS#7778-18-9</b>
<b>Pennsylvania:</b>	Silica, quartz: <b>CAS#14808-60-7</b> Silicate, Portland cement: <b>CAS#65997-15-1</b> Calcium carbonate: <b>CAS#1317-65-3</b> Gypsum (Calcium Sulfate): <b>CAS#7778-18-9</b>
<b>Massachusetts:</b>	Silica, Crystalline, Quartz: <b>CAS#14808-60-7</b> Portland Cement: <b>CAS#65997-15-1</b> Calcium carbonate: <b>CAS#1317-65-3</b> Gypsum: <b>CAS#7778-18-9</b>
<b>Minnesota:</b>	Silica, quartz: <b>CAS#14808-60-7</b> Cement, Portland, Chemicals: <b>CAS#65997-15-1</b> Calcium carbonate: <b>CAS#1317-65-3</b> Gypsum (Calcium Sulfate): <b>CAS#7778-18-9</b>
<b>Florida:</b>	Not Available
<b>Michigan:</b>	Not Available

### 15.4. GLOBAL INVENTORIES

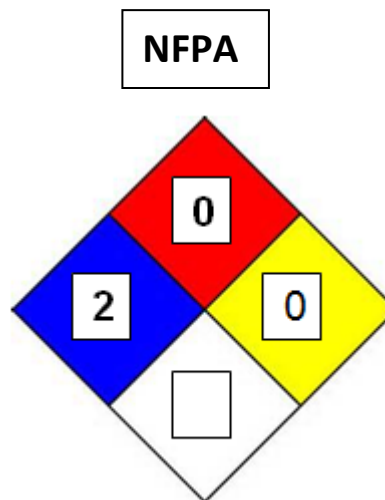
Chemical Name	USA TSCA	Canada DSL/NDSL
Crystalline Silica, Quartz	Yes	DSL
Portland cement	Yes	DSL
Calcium Carbonate	Yes	DSL(*)
Gypsum	Yes	DSL

\*Exemption: Natural occurring chemical





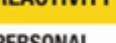






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## 15.5. NFPA AND HMIS RATINGS:

<b>HEALTH HAZARD</b> <b>4</b> <b>EXTREME</b> - Highly toxic - May be fatal on short-term exposure. <b>3</b> <b>SERIOUS</b> - Toxic - Full protective suit and breathing apparatus should be worn. <b>2</b> <b>MODERATE</b> - Breathing apparatus and face mask must be worn. <b>1</b> <b>SLIGHT</b> - Breathing apparatus may be worn. <b>0</b> <b>MINIMAL</b> - No precautions necessary.	<b>FLAMMABILITY HAZARD</b> <b>4</b> <b>EXTREME</b> - Extremely flammable gas or liquid. Flash Point below 73°F. <b>3</b> <b>SERIOUS</b> - Flammable. Flash Point 73°F to 100°F. <b>2</b> <b>MODERATE</b> - Combustible. Requires moderate heating to ignite. Flash Point below 200°F. <b>1</b> <b>SLIGHT</b> - Slightly combustible. Requires strong heating to ignite. <b>0</b> <b>MINIMAL</b> - Will not burn under normal conditions.
<b>SPECIFIC HAZARD</b>  OXIDIZER <b>OXY</b>  ACID <b>ACID</b>  ALKALI <b>ALK</b>  CORROSIVE <b>COR</b>  Use NO WATER <b>W</b>  RADIATION ☸	<b>INSTABILITY HAZARD</b> <b>4</b> <b>EXTREME</b> - Explosive at room temperature. <b>3</b> <b>SERIOUS</b> - May detonate if shocked or heated under confinement or mixed with water. <b>2</b> <b>MODERATE</b> - Unstable. May react with water. <b>1</b> <b>SLIGHT</b> - May react if heated or mixed with water. <b>0</b> <b>MINIMAL</b> - Normally stable. Does not react with water.



**HMIS**

<b>2</b> <b>HEALTH</b>	<b>PROTECTIVE EQUIPMENT INDEX</b>	
<b>0</b> <b>FLAMMABILITY</b>	<b>A</b> 	<b>G</b> 
<b>0</b> <b>REACTIVITY</b>	<b>B</b> 	<b>H</b> 
<b>0</b> <b>PERSONAL PROTECTION</b>	<b>C</b> 	<b>I</b> 
<b>B</b>	<b>D</b> 	<b>J</b> 
	<b>E</b> 	<b>K</b> 
	<b>F</b> 	<b>X</b> Ask your supervisor for special handling instructions.

Hazard Index	
<b>4</b>	<b>Severe Hazard</b>
<b>3</b>	<b>Serious Hazard</b>
<b>2</b>	<b>Moderate Hazard</b>
<b>1</b>	<b>Slight Hazard</b>

### CLASSIFICATIONS:

<b>CP65</b>	California Proposition 65
<b>OSHA (O)</b>	Occupational Safety and Health Administration
<b>ACGIH (G)</b>	American Conference of Governmental Industrial Hygienists <ul style="list-style-type: none"> <li>A1 – Confirmed human carcinogen</li> <li>A2 – Suspected human carcinogen</li> <li>A3 – Animal carcinogen</li> <li>A4 – Not classifiable as a human carcinogen</li> <li>A5 – Not suspected a human carcinogen</li> </ul>

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<b>IARC (I)</b>	International Agency for Research on Cancer <ul style="list-style-type: none"> <li>• 1 – The agent (mixture) is carcinogenic to humans</li> <li>• 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.</li> <li>• 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.</li> <li>• 3 – The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.</li> <li>• 4 – The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.</li> </ul>
<b>NTP (N)</b>	National Toxicology Program <ul style="list-style-type: none"> <li>• 1 – Known to be carcinogens</li> <li>• 2 – Reasonably anticipated to be carcinogens</li> </ul>

### Section 16: OTHER INFORMATION

**Date of Preparation:** June 1, 2015

**Version:** 1.0

**Revision Date:** N/A

**Disclaimer:** The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.

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## End of Safety Data Sheet