



SAFETY DATA SHEET

Section 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER

Product Name: VersaBond Flex® Professional 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 30305

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

Section 2: HAZARD(S) IDENTIFICATION

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



SAFETY DATA SHEET

2.2c HAZARD PICTOGRAMS



2.2d PRECAUTIONARY STATEMENTS

| | |
|----------------------|---|
| i. PREVENTION | 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 protective gloves/protective clothing/eye protection/face protection. |
| ii. RESPONSE | 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 |
| iii. STORAGE | Store in a well-ventilated place. Keep container tightly closed. |
| iv. DISPOSAL | 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

0% 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



SAFETY DATA SHEET

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 | 40 – 70%* |
| Portland cement | 65997-15-1 | 15 – 40%* |
| Calcium carbonate | 1317-65-3 | 10 – 30%* |
| Coal Ash | 68131-74-8 | 7 – 13%* |
| Slag | 65996-69-2 | 7 – 13%* |
| 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 |
|----------------------|--|
| Eye Contact: | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately. |
| Skin Contact: | 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. |
| Inhalation: | 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. |
| Ingestion: | 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. |

4.2 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

| ROUTES OF EXPOSURE | DESCRIPTION |
|---------------------|---|
| Eye Contact: | Causes serious eye damage. Symptoms may include discomfort or |



SAFETY DATA SHEET

| | |
|----------------------|--|
| | 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. |

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:

Not available.

ii. Sensitivity to Static Discharge:

Not available.

5.4 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS

Keep upwind of fire. Wear full fire fighting turn-out gear(full bunker gear) and respiratory protection (SCBA).



SAFETY DATA SHEET

Section 6: ACCIDENTAL RELEASE MEASURES

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.

Section 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Handling: Use in well-ventilated areas. Wear chemical resistant 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.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETER

Exposure Guidelines

| Occupational Exposure Limits | | |
|------------------------------|---|------------------------------|
| Chemical Name | OSHA-PEL | ACGIH-TLV |
| Crystalline silica, quartz | 0.1 mg/m ³ | 0.025 mg/m ³ |
| Portland cement | 5 mg/m ³ (resp.) 15 mg/m ³ (total) | 10 mg/m ³ (resp.) |
| Calcium carbonate | 5 mg/m ³ (Resp.) | 5 mg/m ³ (Resp.) |



SAFETY DATA SHEET

| | | |
|----------|--|----------------------|
| | 15 mg/m ³ (Total) | |
| Coal Ash | Not available | Not available |
| Slag | Not available | Not available |
| Gypsum | 10 mg/m ³ (Resp.) 15 mg/m ³ (Total) | 10 mg/m ³ |

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/face protection [properly fitted dust- or splash-proof chemical safety goggles/face (face shield)]
- ii. **Skin Protection:**
 1. **Hand Protection:** Wear chemical resistant 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

| | |
|--|------------------------------|
| Appearance (physical state, color, etc.): | Solid Powder (Gray or White) |
| Odor: | Characteristic |
| Odor Threshold: | Not available |
| pH: | 10 – 12.5 when wet |
| Melting point/Freezing point: | Not available |
| Initial boiling point and boiling range: | Not available |
| Flash point: | > 212°F |
| Evaporation rate (Water=1): | Not available |
| Flammability: | Not flammable |
| Upper Flammability/Explosive Limit: | Not available |
| Lower Flammability/Explosive Limit: | Not available |
| Vapor Pressure | Not available |
| Vapor Density: | Not available |
| Relative Density: | 2 – 3 g/cc |
| Solubility in Water: | Slightly Soluble |
| Partition coefficient: n-octanol/water: | Not available |



SAFETY DATA SHEET

| | |
|-----------------------------------|---------------|
| Auto-ignition temperature: | Not available |
| Decomposition Temperature: | Not available |
| Viscosity (cps): | Not available |
| VOC Content: | 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:

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

**SAFETY DATA SHEET**

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 |
| Coal Ash | Not available | Oral >2000 mg/kg, rat |
| Slag | Dusts/Mists: >5,235 mg/m ³ | Dermal: >4,000 mg/kg |
| 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 |
| Coal Ash | Not Listed |
| Slag | Not Listed |
| Gypsum | Not Listed |

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

| SHORT-TERM | |
|--|--|
| Skin Corrosion/Irritation: | Causes skin irritation |
| Serious Eye Damage/Irritation: | Causes severe eye damage |
| Respiratory Sensitization: | Not available |
| Skin Sensitization: | May cause an allergic skin reaction |
| STOT-Single Exposure: | May cause respiratory irritation |
| Aspiration Hazard: | Not available |
| LONG-TERM | |
| Carcinogenicity: | May cause cancer |
| Germ Cell Mutagenicity: | Not available |
| Reproductive Toxicity: | Not available |
| STOT-Repeated Exposure: | Causes damage to organs through prolonged or repeated exposure |
| Synergistic/Antagonistic Effects: | 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 |



SAFETY DATA SHEET

| | | |
|-------------------|-------------------------------|------------------|
| Portland cement | Not available | Not available |
| Calcium carbonate | Not available | Not available |
| Coal Ash | LC50 > 100 mg/L Daphnia Magna | LC50: > 100 mg/L |
| Slag | LC50 > 100 mg/L Daphnia Magna | LC50: > 100 mg/L |
| 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: Not regulated | UN NUMBER: Not regulated |
| UN PROPER SHIPPING NAME: Not regulated | UN PROPER SHIPPING NAME: Not regulated |
| TRANSPORT HAZARD CLASS (ES): Not regulated | TRANSPORT HAZARD CLASS (ES): Not regulated |
| PACKING GROUP (if applicable): Not regulated | PACKING GROUP (if applicable): 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



SAFETY DATA SHEET

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 (29 CFR 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 |
| Coal Ash | Not Listed | Not Listed | Not Listed | Not Listed |
| Slag | 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:

| | |
|---|--|
| California Proposition 65: | WARNING! This product contains a chemical known to the State of California to cause cancer, birth defects and other reproductive harm |
| Other U.S. States "Right to Know" Lists: | |
| New Jersey: | Silica, quartz: CAS#14808-60-7 Silicate, Portland cement: CAS#65997-15-1 Calcium carbonate: CAS#1317-65-3 Gypsum (calcium sulfate): CAS#7778-18-9 |
| Pennsylvania: | Silica, quartz: CAS#14808-60-7 Cement, Portland, chemicals: CAS#65997-15-1 Calcium carbonate: CAS#1317-65-3 Gypsum: CAS#7778-18-9 |
| Massachusetts: | Quartz: CAS#14808-60-7 Portland cement: CAS#65997-15-1 Limestone: CAS#1317-65-3 Plaster of Paris: CAS#7778-18-9 |
| Minnesota: | Silica, quartz: CAS#14808-60-7 Cement, Portland, chemicals: CAS#65997-15-1 Calcium carbonate: CAS#1317-65-3 Gypsum: CAS#7778-18-9 |
| Florida: | Not Available |



SAFETY DATA SHEET

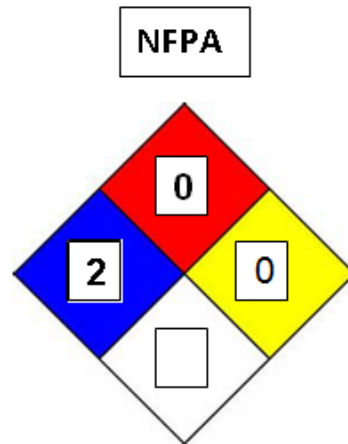
| | |
|-----------|---------------|
| Michigan: | Not Available |
|-----------|---------------|

15.4. GLOBAL INVENTORIES

| Chemical Name | USA TSCA | Canada DSL/NDSL |
|----------------------------|----------|-----------------|
| Crystalline silica, quartz | Yes | DSL |
| Portland cement | Yes | DSL |
| Calcium carbonate | Yes | NDSL |
| Coal Ash | Yes | DSL |
| Slag | Yes | DSL |
| Gypsum | Yes | DSL |

15.5. NFPA AND HMIS RATINGS:

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



HMIS

| Hazard Index | |
|--------------|-----------------|
| 4 | Severe Hazard |
| 3 | Serious Hazard |
| 2 | Moderate Hazard |
| 1 | Slight Hazard |

| | | |
|-----------------------|---|----------|
| 2 HEALTH | PROTECTIVE EQUIPMENT INDEX | |
| ● FLAMMABILITY | A | G |
| ● REACTIVITY | B | H |
| ○ PERSONAL PROTECTION | C | I |
| E | D | J |
| | F | K |
| | X Ask your supervisor for special handling instructions. | |



SAFETY DATA SHEET

15.6. SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

| | |
|------------------|--|
| CP65 | California Proposition 65 |
| OSHA (O) | Occupational Safety and Health Administration |
| ACGIH (G) | American Conference of Governmental Industrial Hygienists <ul style="list-style-type: none"> • A1 – Confirmed human carcinogen • A2 – Suspected human carcinogen • A3 – Animal carcinogen • A4 – Not classifiable as a human carcinogen • A5 – Not suspected a human carcinogen |
| IARC (I) | International Agency for Research on Cancer <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • 1 – Known to be carcinogens • 2 – Reasonably anticipated to be carcinogens |

Section 16: OTHER INFORMATION

Date of Preparation: June 14, 2016

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.

Prepared by: Custom Building Products
Phone: (562)-968-2980
www.custombuildingproducts.com

End of Safety Data Sheet