

# Material Safety Data Sheet

## Tuscan Stoneworx Bag Products

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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#### PRODUCTS COVERED BY THIS MSDS:

- Tuscan Stone Limestone Coating
- Tuscan Plaster Limestone Coating
- Tuscan Cast Stone Mix
- Cold Stone Cast Mix
- Tuscan Fiber Reinforced Concrete (TFRC)
- Envision Concrete Countertop Mix

#### COMPANY CONTACT INFORMATION:

##### **Tuscan Stoneworx USA, LLC**

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### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

#### INGREDIENTS:

<u>CASE NO.</u>		<u>% WT</u>
65997-15-1	Hydraulic Cement	20%-35%
1317-65-3	Calcium Carbonate	5%-70%
14808-60-7	Crystalline Silica (Quartz)	5%-70%
1332-58-7	Kaolin	<1%
7778-18-9	Gypsum	<2%
N/A	Proprietary ingredients	<2%

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### SECTION 3: HAZARDS IDENTIFICATION

#### ROUTES OF ENTRY & POTENTIAL HEALTH EFFECTS:

**EYES:** May cause eye irritation. Wear tight fitting goggles in dusty conditions.

**SKIN:** May cause skin irritation. Wear protective clothing in dusty conditions.

**INGESTION:** May be harmful if swallowed.

**INHALATION: WARNING:** This product contains crystalline silica. Long-term overexposure to crystalline silica causes silicosis, a form of pulmonary fibrosis. Continued overexposure to silica can lead to cardiopulmonary impairment. Crystalline silica has been reviewed by IARC. IARC found sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the form of quartz or cristobalite from occupational sources.

**CHRONIC HEALTH HAZARDS:** None known.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** None known.

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#### SECTION 4: FIRST AID MEASURES

EYES: If contact with the eyes, immediately flush eyes with plenty of water. Seek medical attention if irritation occurs.

SKIN: If contact with the skin, immediately wash skin with plenty of water. Seek medical attention if irritation occurs.

INGESTION: If swallowed, do not induce vomiting. Drink water. Seek medical attention.

INHALATION: If inhaled, move person to fresh air. Seek medical attention if symptoms occur.

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#### SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES: None

FLASH POINT: Not Applicable.

EXTINGUISHING MEDIA: Water, Carbon Dioxide, or Fire Extinguishers.

HMS HAZARD CLASSIFICATION

HEALTH: 1\*

FLAMMABILITY: 1

REACTIVITY: 0

*Hazard Scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe \*=Chronic Hazard*

FIRE FIGHTING PROCEDURES: This material will not burn.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

HAZARDOUS COMBUSTION PRODUCTS: None.

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#### SECTION 6: ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Scoop up dry material. Scrape wet material and place in appropriate container. Avoid dust formation. Do not breathe dust. Dispose of according to local, state and federal regulations.

PERSONAL PRECAUTIONS: Wash thoroughly after contact with dust or wet mixtures.

ENVIRONMENTAL PRECAUTIONS: None listed.

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#### SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Handle this product in accordance with good industrial hygiene and safety practices. Use proper and adequate ventilation with dust collection to maintain airborne levels of crystalline silica to below the PEL. Keep out of reach of children. Keep containers tightly closed. Store in a well ventilated area. Avoid dust formation. Do not breathe dust.

Note: Quartz is incompatible with oxidizers such as hydrofluoric acid, fluorine, chlorine trifluoride, or oxygen difluoride.

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#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: Use with adequate ventilation.

EYE PROTECTION: Wear tight fitting goggles if there is potential for exposure to particles which could cause eye discomfort.

SKIN PROTECTION: Wear protective clothing in dusty conditions. Anti-static clothing is recommended.

WORK HYGIENIC PRACTICES: Do not consume food in work area. Wash hands before smoking or eating.

RESPIRATORY PROTECTION: Use a NIOSH approved respiratory protection when there is a potential to exceed exposure guidelines (see table below). Appropriate respiratory protection for respirable crystalline silica is based on the airborne exposure concentration and duration of exposure for the particular use of a respirator. A respiratory protection program in accordance with OSHA Standard 29 CFR 1910.134 must be implemented whenever workplace conditions warrant use of a respirator. NIOSH recommends the use of respiratory protection when effective engineering controls are not feasible, or while they are being installed to control workplace exposure to crystalline silica.

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<b>AIRBORNE CRYSTALLINE SILICA CONCENTRATION</b>	<b>MINIMUM RESPIRATORY PROTECTION</b>
Up to 0.5 mg/m <sup>3</sup>	Any air-purifying respirator with a high efficiency particulate (HEPA) air filter.
Up to 1.25 mg/m <sup>3</sup>	Any powered, air-purifying, full-face piece respirator with a HEPA filter. Any supplied-air respirator operated in a continuous-flow mode.
Up to 2.5 mg/m <sup>3</sup>	Any powered, air-purifying, full-face piece respirator with a HEPA filter. Any powered, air-purifying respirator with a tight fitting face piece and HEPA filter.
Up to 25 mg/m <sup>3</sup>	Any supplied-air respirator operated in a pressure-demand or other positive pressure mode.
Emergency or Planned Entry into Unknown Concentrations or Immediately Dangerous to Life or Health (IDLH) Conditions	Up to 500mg/m <sup>3</sup> : Any self-contained breathing apparatus with a full-face piece and is operated in pressure-demand mode or other positive pressure mode. Any supplied-air respirator that has a full face piece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus.
Escape	Any air-purifying, full-face piece respirator with a HEPA filter. Any appropriated escape-type, self-contained breathing apparatus.

*Use only NIOSH-approved respiratory protection. See 29 CFR 1910.134 and 42 CFR 84. See also ANSI standard Z88.2 (latest revision) "American National Standard for Respiratory Protection."*

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE: Powder – Paste.

ODOR: Odorless.

MELTING POINT: Not applicable.

FREEZING POINT: Not applicable.

VAPOR PRESSURE (mmHg): Not applicable.

VAPOR DENSITY (AIR = 1): Not applicable.

SPECIFIC GRAVITY (H<sub>2</sub>O = 1): 2.79

PERCENT SOLIDS BY WEIGHT: >99%

SOLUBILITY IN WATER: Hydration process.

EVAPORATION RATE: Not applicable.

SOLUBILITY IN WATER: .01-1.0%

PERCENT VOLATILE: 0%

VISCOSITY: Not applicable.

## **SECTION 10: STABILITY AND REACTIVITY**

STABILITY: Stable under recommended storage conditions.

CONDITIONS TO AVOID (STABILITY): < 32 degrees Fahrenheit / 0 degrees Celsius (freezing).

INCOMPATIBILITY (MATERIAL TO AVOID): Avoid contact with oxidizing materials, ammonium salts, aluminum metal, alum, fluorine and mercury/hydrogen mixtures.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: If stored and handled under recommended conditions, none known.

HAZARDOUS POLYMERIZATION: Will not occur.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY: Acute ingestion may result in mild gastrointestinal distress. Oral LD<sub>50</sub> Rat: 500mg/kg.

SKIN ABSORPTION: May produce irritation to eyes, skin and respiratory system.

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REPEATED DOSE TOXICITY: There may be a relationship between silicosis and certain cancers.  
CHRONIC TOXICITY AND CARCINOGENICITY: Simple silicosis can occur after many years of exposure to relatively low concentrations of airborne respirable crystalline silica dust. Chronic exposure may result in hypercalcemia, alkalosis and renal impairment.  
DEVELOPMENTAL TOXICITY: None known.  
REPRODUCTIVE TOXICITY: None known.  
GENETIC TOXICITY: None known.

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## **SECTION 12: ECOLOGICAL INFORMATION**

MOVEMENT AND PARTITIONING: No bioaccumulation or food chain concentration toxicity potential.  
ECOTOXICITY: No recognized unusual toxicity to plant and animals.  
PERSISTENCE AND DEGRADABILITY: No appreciable biodegradation is expected.

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## **SECTION 13: DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHOD: Do not dump into any sewers, on the ground, or into any body of water. All disposal practices must be in compliance with all local, state and federal laws and regulations.

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## **SECTION 14: TRANSPORT INFORMATION**

US DOT NON-BULK: Not regulated for transport.  
TRANSPORT BY SEA IMDG-CODE: Not regulated for transport.  
AIR TRANSPORT ICAO-TI/IATA-DGR: Not regulated for transport.

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## **SECTION 15: REGULATORY INFORMATION**

### U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): The components of this material are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

OSHA HAZARD COMMUNICATION STANDARD: This material contains Portland cement which is considered a "hazardous chemical" under this regulation as a nuisance dust. This material also contains crystalline silica (Quartz) which is listed under 29 CFR 1910.1000 as a toxic hazardous substance.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): This material does not contain any CERCLA regulated chemicals.

SARA 311/312 HAZARD CATEGORIES: This material contains Portland cement which qualifies as a "hazardous substance" with delayed health effects.

313 REPORTABLE INGREDIENTS: The components of this material do not contain any SARA 313 chemicals above de minimus levels.

### HAPS HAZARDOUS AIR POLLUTANTS:

108-05-4	Vinyl acetate
75-07-0	Acetaldehyde
141-78-6	Ethyl Acetate

### STATE REGULATIONS

#### CALIFORNIA PROPOSITION 65 CARCINOGENS:

75-07-0	Acetaldehyde
14808-60-7	Quartz (Crystalline Silica)

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Components of this material also contain trace chemicals, including free crystalline silica, known to the State of California to cause cancer, birth defects, or other reproductive harm. California law requires the manufacturer to give the above warning in the absence of definitive testing to prove that the defined risks do not exist at levels of significance defined by the State.

**MASSACHUSETTS RIGHT-TO-KNOW HAZARDOUS SUBSTANCE LIST:**

1332-58-7	Kaolin
1317-65-3	Calcium carbonate

**NEW JERSEY RIGHT-TO-KNOW HAZARDOUS SUBSTANCE LIST:**

This material contains no listed components.

**PENNSYLVANIA RIGHT-TO-KNOW HAZARDOUS SUBSTANCE LIST:**

1332-58-7	Kaolin
1317-65-3	Calcium carbonate

**CANADIAN REGULATIONS**

**WHMIS HAZARD CLASSES:** Portland cement is considered to be a hazardous material under the Hazardous Products as defined by the Controlled Products Regulations Class E. Crystalline Silica (Quartz) is considered to be a hazardous material under the Hazardous Products as defined by the Controlled Products Regulations Class D, Division 2A. These components are therefore subject to the labeling and MSDS requirements of the WHMIS.

**DOMESTIC SUBSTANCE LIST (DSL):** This material or its components are listed on the Canadian Domestic Substances List.

**CANADIAN INGREDIENT DISCLOSURE LIST:** This material contains no listed components.

**IARC:** Crystalline silica (quartz) is classified in IARC Group 1 Carcinogen.

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**SECTION 16: OTHER INFORMATION**

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