SAFETY DATA SHEET

Section 1 – Identification

SUPPLIER:	The Tile Shop	NOTE: Blank spaces are not permitted. If no relevant information is found for any given subheading within a section, the SDS shall clearly indicate that no applicable information is available.
ADDRESS:	14000 Carlson Parkway Plymouth, MN 55441	Emergency Telephone Number (CHEMTREC) (800) 424-9300 Telephone Number for Information (888) 398-6595
TELEPHONE:	888-398-6595	Recommended use of the product: Building material. Floor covering as a finished product. Resistant to fading, most liquids, temperatures, cleaning products and solvents.
Product Identifier (as used on Label, SDS and list) **Ceramic Tile** Other means of identification: none		

Section 2 – Hazard Identification

Classification: This product is classified as a health hazard under 29 CFR 1910.1200. Ceramic Floor tile as a whole is not hazardous, however, installation and handling of this product may subject user to airborne dust/particles from cutting and/or breaking tiles under normal expected installation procedures.

Carcinogenicity	Category: 1A	Signal Word: DANGER
Specific Target Organ Toxicity (Repeated Exposure)	Category: 1	Signal word: DANGER
Specific Target Organ Toxicity (Single Exposure)	Category: 3	Signal Word: WARNING

Hazard Statements: May cause cancer. Causes damage to organs (lungs) through prolonged or repeated exposure. May cause respiratory irritation.

Precautionary Statements:
PREVENTION: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in well-ventilated area. Do not eat, drink, or smoke while using this product. Avoid breathing dust/particles. Wear protective gloves/clothing/eye protection/face protection. Wash face/hands/skin thoroughly after handling.

RESPONSE: If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned, get medical advice/attention. Call a Poison Center if you feel unwell.

STORAGE: Store locked up, in a well-ventilated place. Keep container tightly closed.

DISPOSAL: Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 – Composition/Ingredients (*= trade secret)

Chemical Name	Common Name and synonyms	CAS No.	Percentage
Silicon Dioxide	Crystalline Silica, Quartz, Sand	14808-60-7	*
Aluminum Oxide	C Powder, S Powder, Alumina	1344-28-1	*
Potassium Oxide	Dipotassium Monoxide, Potash	12030-88-5	*
Calcium Oxide	Quicklime, Burnt Lime	1305-78-8	*
Titanium Dioxide	Titanium Oxide, Titania	13463-67-7	*
Sodium Oxide	Disodium Oxide	1313-59-3	*

Section 4 – First Aid Measures

INHALATION: Not expected from intact tiles. If dust/particles from cut or broken tiles is inhaled: move victim to fresh air. Place in comfortable breathing position. Get medical attention if breathing becomes difficult at any time.

SKIN CONTACT: If on skin: wash thoroughly with soap and water. If any symptoms or irritation result from exposure, get medical attention.

Section 4 – First Aid Measures (continued)

EYE CONTACT: Not expected from intact tiles. If dust/particles from cut or broken tiles gets in eyes: rinse with water for several minutes. Remove contacts, continue rinsing. If irritation results from exposure, get medical attention.

INGESTION: Not expected from intact tiles. If dust/particles from cut or broken tiles is swallowed, rinse mouth with water. DO NOT induce vomiting.

MOST IMPORTANT SYMPTOMS/EFFECTS: Acute: Inhalation of dust/particles can lead to respiratory irritation. Exposure to skin and eyes can cause irritation and drying. Delayed: Chronic or repeated inhalation of airborne dust/particles from cut or broken tiles can cause Silicosis, Pulmonary Fibrosis, COPD and/or other lung cancers

IMMEDIATE MEDICAL ATTENTION/SPECIAL TREATMENT: Emergency medical attention is not expected from single or acute exposure, however, chronic inhalation of product in dust/particle form may lead to lung disorders requiring medical intervention and treatments.

Section 5 – Fire-Fighting Measures

SUITABLE EXTINGUISHING MEDIA: Ceramic Floor tile does not pose a fire hazard, however normal fires can be extinguished using water mist, CO_2, or Dry Chemical (ABC) extinguishers

SPECIAL FIRE-FIGHTING PROCEDURES: Wear self-contained breathing apparatus with full-face mask and fire-fighter protective clothing when fighting fires.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

Ceramic Tile	
HEALTH	**1**
FLAMMABILITY	**0**
PHYSICAL HAZARDS	**0**

NFPA Rating: Health: 1 Flammability: 0 Reactivity: 0

Section 6 – Accidental Release Measures

PERSONAL PRECAUTIONS: When cutting tile during installation: Wet cutting is highly recommended. Dry cutting will cause excessive particle and dust formation. Avoid inhalation of particles/dust from cut or broken tiles.

PROTECTIVE EQUIPMENT: A dust collection system is recommended for all indoor areas. PPE (eye and respiratory protection) is required when exposed to environment containing airborne particles/dust that meet or exceed the PEL. Only use NIOSH approved respirators (Half or Full Face).

EMERGENCY PROCEDURES: None expected

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: For clean-up of excessive amounts of particles/dust, a vacuum system containing a High-Efficiency Particulate (HEPA) filtering system is recommended. User must use respiratory protection as levels of airborne contaminants may exceed PEL's.

Section 7 – Handling and Storage

PRECAUTIONS FOR SAFE HANDLING: Product is fragile. Breaking of tiles can produce potentially harmful airborne contaminants. Padding between hard edges and tile is recommended.

CONDITIONS FOR SAFE STORAGE INCLUDING INCOMPATIBILITIES: Store away from acids.

Section 8 – Exposure Controls/Personal Protection

Component	CAS	OSHA PEL; TWA	ACGIH TLV	NIOSH REL
Crystalline Silica	14808-60-7	50mcg/m³/8 hour avg	.025 mg/m³	.05 mg/m³
Aluminum Oxide	1344-28-1	15 mg/m³ (T); 5 mg/m³	10 mg/m3 (T); 5 mg/m3	10 mg/m3 (T); 5 mg/m3
Potassium Oxide	12030-88-5	15 mg/m³ (T); 5 mg/m³	10 mg/m3 (T); 5 mg/m3	10 mg/m3 (T); 5 mg/m3
Calcium Oxide	1305-78-8	15 mg/m³ (T); 5 mg/m³	10 mg/m3 (T); 5 mg/m3	10 mg/m3 (T); 5 mg/m3
Titanium Dioxide	13463-67-7	15 mg/m³ (T); 5 mg/m³	10 mg/m3 (T); 5 mg/m3	10 mg/m3 (T); 5 mg/m3
Sodium Oxide	1313-59-3	15 mg/m³ (T); 5	10 mg/m3 (T); 5 mg/m3	10 mg/m3 (T); 5 mg/m3

APPROPRIATE ENGINEERING CONTROLS: Use sufficient local exhaust ventilation, or other engineering controls to maintain the level of respirable SiO_2 below the OSHA PEL. General ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations such as using indoors in confined non-ventilated room. Use wet cutting methods when available.

Section 8 – Exposure Controls/Personal Protection (Continued)

PERSONAL PROTECTIVE EQUIPMENT: To avoid exposures in excess of the OSHA PEL, consider wearing air-purifying respirators with HEPA filters or NIOSH-approved dust respirators. Wear proper protective clothing, e.g. long pants and long- sleeved shirts, to avoid contact with product. Use ANSI-approved eye protection and chemical resistant gloves.

RESPIRATORY PROTECTION: If it is not possible to reduce airborne exposure levels to below the OSHA PEL with ventilation, wear a NIOSH-approved air-purifying respirator with HEPA filters or the appropriate NIOSH-approved respirator.

EYE/FACE PROTECTION: Under normal conditions, wear safety goggles that meet the ANSI Z87.1 standard.

HAND PROTECTION: Cotton or leather gloves should be worn to avoid contact with skin. Wash hands before and after using/handling product.

PROTECTIVE CLOTHING: Wear long pants and long-sleeved shirts while working with this material.

Section 9 – Physical and Chemical Properties

APPEARANCE: Solid (various colors)	ODOR: None, odorless
pH: N/A	MELTING PT/FREEZING PT: N/A
INITIAL BOILING POINT: N/A	FLASH POINT: N/A
FLAMMABILITY: N/A	EVAPORATION RATE: N/A
VAPOR DENSITY: N/A	RELATIVE DENSITY: 1.4 to 2.1
VAPOR PRESSURE: N/A	%VOLATILE BY VOLUME: None
PARTITION COEFFICIENT: n-OCTANOL/WATER: N/A	VISCOSITY: N/A
AUTOIGNITION TEMPERATURE: N/A	SOLUBILITY IN WATER: Insoluble

Section 10 – Stability and Reactivity

REACTIVITY: None

CHEMICAL STABILITY: Product is completely stable in its current form.

POSSIBILITY OF HAZARDOUS REACTIONS: None known

CONDITIONS TO AVOID: Avoid exposing product to acids.

INCOMPATIBLE MATERIALS: Avoid exposing product to acids.

HAZARDOUS DECOMPOSITION PRODUCTS: If stored and handled properly, none known.

Section 11 – Toxicological Information

*Intact tile does not have any known harmful routes of exposure. Hazards come from dust/particle formation from cutting or breaking. *

Routes of Entry (only from cut or broken tile): Inhalation: YES Ingestion: YES Eye: YES Skin: YES

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS: Eye, skin, and respiratory tract irritation, and/or difficulty breathing can result from being exposed to airborne dust/particles caused from cut or broken tiles. Lung disorders such as Silicosis, Pulmonary Fibrosis, COPD, and other lung disorders can result from repeated inhalation of airborne dust/particles exceeding the OSHA PEL. These conditions can result in constant difficulty breathing as well as worsening of other health issues.

IMMEDIATE EFFECTS: If exposed to airborne dust/particles: eye irritation, skin drying and irritation, and respiratory tract irritation.

CHRONIC EFFECTS: Inhalation of airborne dust/particles multiple times can cause delayed health effects. Possible conditions are: Silicosis, Pulmonary Fibrosis, COPD, Cancer of the lungs, and worsening of kidney, heart, and other organ conditions.

Cancer. The International Agency for Research on Cancer (IARC) concluded that there was “sufficient evidence” in humans for the carcinogenicity of crystalline silica in the forms of quartz or cristobalite from occupational sources. The overall IARC evaluation was that “crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1). The IARC evaluation noted that carcinogenicity was not detected in all industrial circumstances. The National Toxicology Program (NTP) classifies respirable crystalline silica as Known to be a Human Carcinogen.

CARCINOGENICITY:	NTP: Known to be Human Carcinogen	IARC: Group I	OSHA: Potential
LD50/LC50: None	Mutagenicity: None	Neurotoxicity: None	Reproductive Effects: None

Section 12 – Ecological Information (Non-mandatory)

ECOTOXICITY: None known	BIO ACCUMULATIVE POTENTIAL: None	OTHER ADVERSE EFFECTS (such as hazardous to the ozone layer): None known
PERSISTENCE AND DEGRADABILITY: None known	MOBILITY IN SOIL: No test data available	

Section 13 – Disposal Considerations (Non-mandatory)

WASTE DISPOSAL OF SUBSTANCE: Waste should be disposed of in a landfill certified to accept such materials in accordance with federal, state, and local regulations.

CONTAINER DISPOSAL: Dispose of in accordance with federal, state and local regulations.

RCRA: None listed

Section 14 – Transport Information (Non-mandatory)

DOT, IATA, IMO/IMDG SHIPPING INFORMATION

UN Identification Number: Not applicable	Proper Shipping Name: Not applicable
Hazard Class: Not applicable	Secondary Risk: Not applicable
Packing Group: Not applicable	Label(s) Required: Not applicable
Environmental Hazards: None	Transport in Bulk: None (per Annex II of MARPOL 73/78 and IBC)
UN Identification Number: Not applicable	Proper Shipping Name: Not applicable

Section 15 – Regulatory Information (Non-mandatory)

U.S. SARA REPORTING REQUIREMENTS: The components of this mixture are not subject to the reporting requirements of Sections 302, 304 and 313 of Title II of the Superfund Amendments and Reauthorization Act.

Chemical Name	SARA 302 (40 CFR 355, Appendix A)	SARA 304 (40 CFR 355, Table 302.4)	SARA 313 (40 CFR 372.65)
None apply	N/A	N/A	N/A

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for the components of this product. The default Federal SDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20

U.S. CERCLA REPORTABLE QUANTITY (RQ): None

U.S. TSCA INVENTORY STATUS: All chemicals in this mixture are listed on the TSCA inventory.

TSCA SIGNIFICANT NEW USE RULE: None of the chemicals in this mixture have a SNUR under TSCA.

OTHER U.S. FEDERAL REGULATIONS: Not applicable

CLEAN AIR ACT: This material does not contain any hazardous air pollutants
This material does not contain any Class 1 Ozone depletors
This material does not contain any Class 2 Ozone depletors

CLEAN WATER ACT: None of the chemicals in this mixture are listed as Hazardous Substances under the CWA

None of the chemicals in this mixture are listed as Priority Pollutants under the CWA

None of the chemicals in this mixture are listed as Toxic Pollutants under the CWA

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): This product contains a chemical, crystalline silica (airborne particles of respirable size), classified as a substance known to the state of California to be a carcinogen.

California No Significant Risk Level: None of the chemicals in this product are listed.

Section 15 – Regulatory Information (Non-mandatory) (Cont')

California Inhalation Reference Exposure Level (REL): California established a chronic REL of 3 ug for silica (crystalline, respirable). A chronic REL is an airborne level of a substance at or below which no adverse health effects are anticipated in individuals indefinitely exposed to the substance at that level.

OTHER STATE SPECIFIC REGULATIONS:

Massachusetts Toxic Use Reduction Act: Silica, crystalline (respirable size, <10 microns) is "toxic" for purposes of the Massachusetts Toxic Use Reduction Act.

Pennsylvania Worker and Community Right to Know Act: Quartz is a hazardous substance under the act, but it is not a special hazardous substance or an environmental hazardous substance.

* This product may contain trace amounts of: Iron CAS# 7439-89-6; Cadmium CAS# 7440-43-9; Lead CAS# 7439-92-1; Manganese CAS# 7439-96-5; Strontium CAS# 7440-24-6; Zirconium CAS# 7440-67-7; Barium CAS# 7440-39-3; Niobium CAS# 7440-03-1; and Phosphorus Pentoxide CAS# 1314-56-3. All amounts are below the minimum for any reporting requirements. *

Section 16 – Other Information

PREPARED BY: Bryan Cleavenger DATE PREPARED: June 1, 2016 LAST UPDATED: March 28, 2018

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TRAINING NECESSARY:	Yes. Training under the OSHA HazCom GHS requirements (29 CFR 1910.1200) must be completed upon initial assignment for new employees.
INTENDED USE OF THIS PRODUCT:	This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use therof.

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