

**Safety Data Sheet**  
According to Regulation (EC) No 1907/2006 (REACH)

Trade name: Glazed Porcelain Tile

SDS date: May 2021

**SECTION 1: PRODUCT IDENTIFICATION**

<b>PRODUCT NAME:</b>	Glazed Porcelain Tile
<b>SYNONYM:</b>	
<b>PRODUCT CODES:</b>	All current product references
<b>CHEMICAL NAME:</b>	N/A
<b>CHEMICAL FAMILY:</b>	N/A
<b>CHEMICAL FORMULA:</b>	N/A
<b>MANUFACTURER:</b>	Panaria USA
<b>DIVISION:</b>	Corporate
<b>ADDRESS:</b>	1247 Alton Rd. Lawrenceburg, KY 40342
<b>EMERGENCY PHONE:</b>	859-219-5200
<b>RECOMMENDED USE:</b>	Residential and Commercial Construction Applications
<b>USE RESTRICTIONS:</b>	Refer to product installation manual

**SECTION 2: Hazards Identification**



**IRRITANT/RESPIRATORY TRACT IRRITATION**



**CARCINOGEN**

**NOTES:** Not applicable for intact tiles. Excessive exposure to tile dust can cause discomfort and mechanical irritation. Long term exposure to silica dusts can lead to silicosis.

**EMERGENCY OVERVIEW:**

The product is not classified as hazardous according to Regulation 1272/2008 (CLP). The product is a mixture of natural occurring minerals that have been mixed with water and fired in a high temperature kiln.

<b>Signal Word (GHS-US)</b>	:	Danger
<b>Hazard Statements (GHS-US)</b>	:	H335 - May cause respiratory irritation. H350 - May cause cancer. H372 - Causes damage to organs through prolonged or repeated exposure.
<b>Precautionary Statements (GHS-US)</b>	:	P280 - Wear protective gloves, protective clothing, and eye protection. P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

**POTENTIAL HEALTH EFFECTS**

**EYES:** Mechanical stress through eye rubbing if exposed to dust or airborne particulates

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**SKIN:** Skin irritation if exposed to dust or airborne particulates**INGESTION:** Potential choking hazard if exposed to airborne particulates**INHALATION:** Mechanical stress from inhalation of dust or airborne particulates**ACUTE HEALTH HAZARDS:** No further relevant information available.**CHRONIC HEALTH HAZARDS:** No further relevant information available**CARCINOGENICITY**

Crystalline Silica (Quartz)

LD50 Rat oral &gt; 22,500 mg/kg &amp; LD50 Mouse oral &gt; 15,000 mg/kg LC50 Carp &gt; 10,000 mg/l (per 72 hr)

**OSHA:** Recommended that Crystalline Silica be considered a POTENTIAL occupational carcinogen ACGIH: No information available**NTP:** 9<sup>th</sup> Report: Lists Respirable Crystalline Silica as known to be a Human Carcinogen**IARC:** Respirable Crystalline Silica is classified as a Group 1 Carcinogen (carcinogenic to humans).

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**SECTION 3. Composition/Information on Ingredients****INGREDIENT:**

The product is a mixture of the below natural occurring minerals that have been mixed with water and the tiles formed and fired in a high temperature kiln. This tile may contains <0.1 percent by weight each of the following elements; cadmium, zinc, chrome and other metals.

<u>NAME</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
Crystalline Silica (Quartz) *	14808-60-7	11 - 48	DSD: Not Classified CLP: Not Classified
Nepheline	37244-96-5	3 – 28	DSD: Not Classified CLP: Not Classified
Titanium Dioxide	13463-67-7	0.1-3	DSD: Not Classified CLP: Not Classified
Kaolin	1332-58-7	8-30	DSD: Not Classified CLP: Not Classified
Aluminum Dioxide	1344-28-1	3-8	DSD: Not Classified CLP: Not Classified

\* Crystalline Silica exists in the nature of the minerals such as sand and clay

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**SECTION 4: First aid measures**

Respiratory, hand and eye protection may be needed to prevent excess exposure to airborne particulates if dust is produced by cutting tiles or if dust is produced by any other operations, including removal.

**EYES:** Do not rub eyes to avoid possible cornea damage as a result of mechanical stress. Check for and remove any contact lenses. Rinse out with water with eyelid held wide open. Get medical attention if irritation persists.**SKIN:** Wash off immediately with soap and plenty of water. Get medical attention if irritation persists.**INGESTION:** Rinse out mouth and make victim drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting unless directed to do so by medical personnel; call for medical help.**INHALATION:** Remove from exposure. Keep warm and at rest and provide fresh air. Dust in throat and nasal passages should clear spontaneously. Get medical attention if irritation persists.**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** No further information available.

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**SECTION 5: Firefighting measures****FLAMMABLE LIMITS IN AIR, UPPER:** Not Flammable  
**(% BY VOLUME) LOWER:** Not Flammable**FLASH POINT:** No Data Available

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F: N/A

C: N/A

**METHOD USED:**

**AUTOIGNITION TEMPERATURE:** No Data Available

F: N/A

C: N/A

**EXTINGUISHING MEDIA:**

Suitable: Water, alcohol resistant foam, CO2, dry chemical powder

Unsuitable: Water jet

**SPECIAL FIRE FIGHTING PROCEDURES:**

Wear self-contained breathing apparatus and full protective clothing in case of fire. Avoid breathing fire fumes

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Not explosive

**HAZARDOUS DECOMPOSITION PRODUCTS:**

The product is non-combustible and non-explosive and will not facilitate or sustain the combustion of other materials. Development of hazardous combustion gases or fumes are possible in the event of fire.

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## **SECTION 6: Accidental release measures**

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

For non-emergency personnel: Keep unnecessary and unprotected personnel from entering. Wear appropriate personal protective equipment as described in Section 8. Follow the advice for safe handling and use given in Section 7.

For emergency responders: Emergency procedures are not required. However, respiratory protection is needed in situations with high dust levels.

### **METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP**

Do not empty into drains and sewers. Keep from entering into water and ground water systems. Contain spillage where possible and safe to do so. Inform appropriate authority in case of accidental contamination of watercourses or drains.

Use dry clean-up methods such as vacuum exhaust which do not generate dust formation. Never use compressed air for cleaning. If dust is formed applying a dry-cleaning method, personal protective equipment must be used. Avoid inhalation of product dust and skin contact. Place the spilled material in an appropriate waste disposal container for proper disposal.

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## **SECTION 7: Handling and storage**

### **PRECAUTIONS FOR SAFE HANDLING**

Provide adequate ventilation. Provide local exhaust or general room ventilation to minimize dust concentrations. Avoid inhalation and contact with skin, eye and clothing.

### **CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:**

Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink.

### **OTHER PRECAUTIONS:**

No further relevant information available.

**EXPOSURE GUIDELINES:** Attempt to stop spillage without personal risk. Should not be released into the environment. Prevent product from entering drains.

**SECTION 8: Exposure controls/personal protection****ENGINEERING CONTROLS:**

Contains the following ingredients with occupational exposure limit values:

Crystalline Silica (Quartz): TWA: 0.1 mg/cubic meter (respirable dust)

Nepheline Syenite: TWA(respirable): 5mg/m<sup>3</sup>

Titanium Dioxide: 15mg/m<sup>3</sup>(OSHA-PEL)

Kaolin: 2mg/m<sup>3</sup>(Respirable Fraction)

Aluminum Oxide: 15mg/m<sup>3</sup> (OSHA-PEL), 5mg/m<sup>3</sup> (TWA)

**VENTILATION :** Provide adequate ventilation. Provide local exhaust or general room ventilation to minimize dust concentrations. The highest probability of silica exposure occurs during dry cutting. Wet cutting methods are recommended.

**RESPIRATORY PROTECTION:** Use FFP2 type dust mask

**EYE PROTECTION:** Use tight fitting safety goggles or safety glasses with side shields where dust is formed. Contact lenses may absorb irritants. Do not wear contact lenses in work areas. Have emergency eyewash station available in area where tiles are cut

**SKIN PROTECTION:** Wear dust proof protective gloves, boots, and long-sleeved clothing.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** None required

**WORK HYGIENIC PRACTICES:** Do not eat, drink or smoke when working. Wash hands and if necessary shower before breaks and after work to remove adherent product. Avoid contact with eyes and skin. After working with the product, workers should wash or shower and use skin care products. Clean contaminated clothing, footwear etc. thoroughly before re-using them.

**SECTION 9. Physical and chemical properties**

**APPEARANCE:** Solid

**ODOR:** Odorless

**PHYSICAL STATE:** Solid pH AS SUPPLIED:

No data available pH (Other):

**BOILING POINT:** No data available F:  
C:

**MELTING POINT:**

F: > 2372

C: > 1300

**FREEZING POINT:** No data available

F:

C:

**UPPER/LOWER FLAMABILITY OR EXPLOSIVE LIMITS:** No data available

**VAPOR PRESSURE (mmHg):** Not applicable

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F:

C:

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VAPOR DENSITY (AIR = 1): 2.35 – 2.95 g / cubic centimeter

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F:

C:

SPECIFIC GRAVITY (H2O = 1): Not applicable

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F:

C:

EVAPORATION RATE: Not applicable

SOLUBILITY IN WATER: Not soluble

PERCENT SOLIDS BY WEIGHT: 100%

PERCENT VOLATILE: Not applicable BY WT/ BY VOL @

F:

C:

VOLATILE ORGANIC COMPOUNDS (VOC): Not applicable

WITH WATER: LBS/GAL

WITHOUT WATER: LBS/GAL

MOLECULAR WEIGHT: Not applicable VISCOSITY: Not applicable

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F:

C:

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## SECTION 10: Stability and reactivity

**STABILITY:** The product is **STABLE** under normal conditions of storage and use. Contact with incompatible materials should be avoided.

**CONDITIONS TO AVOID (STABILITY):** Avoid contact with acids (e.g. acetic, hydrofluoric, etc.) Glass is nonflammable. Glass will react with hydrofluoric acid producing a corrosive gas – silicon tetra fluoride.

**INCOMPATIBILITY (MATERIAL TO AVOID):** Acids (e.g., acetic, hydrofluoric, etc.)

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Under normal conditions of storage and use, hazardous decomposition products should not be produced. In a fire, decomposition may product toxic gases / fumes. Glass sand is not classified as a hazardous material by the criteria of the OSHA Hazard Communication Standard, Title 29, Code of Federal Regulations, Section 1910.1200.

**HAZARDOUS POLYMERIZATION:** Not applicable

**CONDITIONS TO AVOID (POLYMERIZATION):**Not applicable

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## SECTION 11: Toxicological information

### TOXICOLOGICAL INFORMATION:

**Acute:** Working with broken or cut tile produces a potential for cuts to the hands and exposed body parts. Acute effects such as eye irritation may occur if associated with high dust operations such as dry cutting tile or during the removal of tile surfaces.

**Chronic:** Not applicable for intact tiles. Excessive exposure to tile dust can cause discomfort and mechanical irritation. Long term exposure to silica dusts can lead to silicosis.

#### Crystalline Silica (Quartz)

LD50 Rat oral > 22,500 mg / kg & LD50 Mouse oral > 15,000mg/ kg

LC50 Carp > 10,000 mg / l (per 72 hrs.)

#### Nepheline Syenite

Dermal: LD50 estimated to be > 5,000 mg/kg

Ingestion: LD50 estimated to be 2,000 - 5,000 mg/kg

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**Titanium Dioxide**

Oral LD50>10000mg/kg

**Skin & Eye corrosion / irritation**

Inhalation and potential eye exposure to eyes may cause irritation if contact is made with broken, and / or during procedures involving the cutting of tiles, and / or for operations involving the removal of installed tiles.

**Sensitization** Existing lung disease may be aggravated after exposure to tile dusts. Long term exposure to silica dusts can lead to silicosis.

**Genetic Toxicity** No data available **Repeated Dose Toxicity** No data available

**Carcinogenicity**

Respirable crystalline silica is classified by the International Agency for Research on Cancer (IRAC) as a Group 1 Carcinogen (carcinogenic to humans). The National Toxicology Program (9<sup>th</sup> Report) lists respirable crystalline silica as known to be a Human Carcinogen. USDOL/OSHA and NIOSH have recommended that crystalline silica be considered a potential occupational carcinogen.

**Reproductive Toxicity** No data available

**Specific target organ Toxicity:** No data

**SECTION 12: Ecological information**

No information available.

**SECTION 13: Disposal considerations WASTE DISPOSAL METHOD:**

**Waste Treatment Methods:** Can be deposited in landfills, sent to an incineration or other appropriate means of disposal provided they meet the requirements of local laws.

**Methods of Disposal:** Although not hazardous, the generation of waste should be avoided or minimized wherever possible. Do not dispose in Storm or Sanitary Sewers. Dispose of in accordance with state and local regulations.

**Contaminated Packaging:** This material and its package must be disposed of in a safe way

**SECTION 14: Transport information**

**RCRA HAZARD CLASS:** Not Applicable

**SPECIAL SHIPPING INFORMATION** Not Applicable

**In Accordance with DOT** Not regulated for transport

**In Accordance with IMDG** Not regulated for transport

**In Accordance with IATA** Not regulated for transport

**SECTION 15: Regulatory information**

**US Federal Regulations**

Porcelain Tile	
<b>SARA Section 311/312 Hazard Classes</b>	Immediate (acute) health hazard Delayed (chronic) health hazard
Quartz (14808-60-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Kaolin (1332-58-7)	

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Listed on the United States TSCA (Toxic Substances Control Act) inventory

**US State Regulations**

<b>Silica (Quartz) (14808-60-7)</b>
<b>U.S. - Massachusetts - Right To Know List</b> <b>U.S. - New Jersey - Right to Know Hazardous Substance List</b> <b>U.S. - Pennsylvania - RTK (Right to Know) List</b>
<b>Kaolin (1332-58-7)</b>
<b>U.S. - Massachusetts - Right To Know List</b> <b>U.S. - New Jersey - Right to Know Hazardous Substance List</b> <b>U.S. - Pennsylvania - RTK (Right to Know) List</b>

This product and/or its components have been previously introduced into U.S. commerce and is listed in the Toxic Substances Control Act (TSCA) Inventory of Chemicals in Commerce. Hence, it is subject to all applicable provisions and restrictions under TSCA 40 CFR Section 721 and 723.250.

This tile contains <1 percent by weight each of the following elements, which are SARA 313 Recordable: Antimony, Arsenic, Barium, Beryllium, Cadmium, Cobalt, Chromium, Copper, Manganese, Mercury, Nickel, Lead, Silver, Thallium, Tin, Titanium, Vanadium, and Zinc.

Title 22 Division 2, California Code of Regulation Chapter 3 (Proposition 65): This product contains a chemical or chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm.

This product or its components meets the following hazard definition(s) as defined by the Occupational Safety and Health Hazard Communication Standard (29 CFR Section 1910.1200):

- |   |  |                                   |
|---|--|-----------------------------------|
| <input type="checkbox"/> Combustible Liquid | <input type="checkbox"/> Flammable Aerosol Oxidizer                          | <input type="checkbox"/>          |
| <input type="checkbox"/> Compressed Gas     | <input type="checkbox"/> Explosive Pyrophoric                                | <input type="checkbox"/>          |
| <input type="checkbox"/> Flammable Gas      | <input checked="" type="checkbox"/> Health Hazard (Sections 3 & 11) Unstable |                                   |
| <input type="checkbox"/> Flammable Liquid   | <input type="checkbox"/> Organic Peroxide Water                              | <input type="checkbox"/> Reactive |
| <input type="checkbox"/> Flammable Solid    |  |                                   |

Based on information presently available, this product does not meet any of the hazard definitions of 29 CFR Section 1910.1200.

Note: The information in this data sheet provides information related to the potential hazards associated with dusts which may be produced during cutting or otherwise changing the shape of the tile during installation and/or removal.

**SECTION 16: Other information**

**OTHER INFORMATION:**

**PREPARATION INFORMATION:**

<b>Date Prepared</b>	<b>May 5th, 2021</b>
<b>Revision</b>	<b>03</b>
<b>Prepared by</b>	<b>Hall Environmental Consultants</b>

**DISCLAIMER:** The information contained within this Safety Data Sheet is believed to be accurate and have been compiled from sources believed to be reliable. It is offered for consideration, investigation and verification. It is the users responsibility to follow the guidelines as outlined within this SDS. The user assumes all risk of use, storage and handling in compliance with applicable laws and regulations.