

SAFETY DATA SHEET



Section 1: Identification

Product Name: Glazed or Unglazed Ceramic and Porcelain Tile	Pantheon Floor Solutions, Inc. 1536 Hutton Dr, Suite 100 Carrollton, Texas 75006 USA +1-214-740-1161 +1-972-245-3087 fax
Application: Wall/floor covering and decoration	
Creation Date: 05/19/2016	

Section 2: Hazard(s)

This product is not classified as hazardous according to the Directive 1999/45/EC. During the firing process a very stable chemical crystal grid structure is formed. Tiles therefore are not considered as hazardous to health. However, during activities like drilling, sawing and grinding of tiles dust is generated containing crystalline silica. Inhalation of this type of dust is hazardous to health and should be avoided.

Section 3: Composition/information on ingredients

Tiles consist of a mixture of predominantly clay types and other naturally occurring mineral substances. After mixing with water and pressing of the tile the body is fired at very high temperatures. During the firing process very stable crystal grid structures are formed in which the individual chemical elements are incorporated. This also applies to the glazing layer.

Main constituents of ceramic tiles (body) are silicon oxide (60-70 %), aluminum oxide (15-25 %) and small percentages of the metal oxides.

Main constituents of the glazing layer are silicon oxide (approx. 50 %), aluminum oxide (approx. 10 %) and calcium oxide (approx. 10 %); furthermore the glazing layer may contain small percentages of the metal oxides and may contain trace of metal compounds.

Section 4: First-aid measures

General: this section only applies to the handling of tiles (drilling, cutting, sawing, grinding, removal, etc.) Eye contact: if dust gets in the eyes, immediately flush with large amounts of water for at least 15 minutes. Call for medical attention if irritation persists. Inhalation: in the event of respiratory complaints (irritation, coughing, tightness of chest, etc.), provide for fresh air (outside). Call for medical attention if complaints persist. Skin contact: no specific measures. Ingestion: no specific measures.

Section 5: Fire-fighting measures

Fire extinguishing media: not applicable. Fire extinguishing media not to be used: not applicable. Specific exposure hazards due to the substance, preparation, combustion products or release of gases: not applicable. Specific protective clothing for fire fighters: not applicable.

Section 6: Accidental release measures

In the event of generation of large amounts of dust during processing: provide adequate ventilation; wear a respirator (type P3); clean up dust using an industrial vacuum or by damp sweeping; refer to section 8.

Section 7: Handling and storage

Handling: no specific measures. Storage: no specific measures.

Section 8: Exposure controls/personal protection

During occupational processing of tiles (drilling, sawing, grinding of tiles; removal of old tile layers) large amounts of dust can be generated. This dust contains silica. Substance Occupational exposure limit: NA. Remarks: None. Crystalline silica: 0,025 mg/m³ respirable dust in according whit TLV-ACGIH. Control of occupational exposure: N/A. Technical measures: Bring tiles down to size using cutting instead of sawing or grinding methods. During sawing or grinding of tiles or removal of old tiles use local exhaust ventilation combined with collection of dust; wet sawing or grinding methods are to be preferred (sawing and grinding equipment with water supply; application of (semi) automatic removal equipment with moistening facility). Ventilation: Provide adequate ventilation; perform activities outside as much as possible. Respiratory protection: Always use respiratory protection during sawing or grinding, in combination with local exhaust ventilation. A type P3 filtering piece is sufficient. When not applying local exhaust ventilation or wet sawing or grinding methods, a (half or full mask) respirator with motor/filter unit (type TM3P) should be used. This is also recommended during removal of old tiles.

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Eye protection: Wear safety glasses with side shields or a face shield when sawing or grinding tiles or removing old tiles. Avoid wearing contact lenses. Skin protection: Wear cotton or leather working gloves during processing of tiles. Hygiene: Wash hands before eating, drinking or smoking or at the end of the shift.

Section 9: Physical and chemical properties

Appearance: solid Auto Ignition Temperature: not applicable Odor: odorless Vapor pressure: not applicable
Color: may vary Solubility in water: not soluble Boiling point/range: not applicable Explosive limits (LEL/UEL): not applicable Flashpoint: not applicable Viscosity: not available

Section 10: Stability and reactivity

Conditions to avoid: contact with strong acids. Materials to avoid: contact with strong acids.

Section 11: Toxicological information

Exposure will only occur during processing of tiles (sawing, drilling, cutting, grinding; removal of old tiles) and concerns exposure due to inhalation of dust (specifically crystalline silica) and of the eyes and skin. Acute effects: Eye irritation due to exposure to high dust concentrations. Skin irritation due to mechanical abrasion. Although cases of development of acute silicosis due to short time exposure to very high concentrations of crystalline silica are described in literature, occurrence of this type of disease is very rare. Chronic effects: Long term inhalation exposure to crystalline silica above current occupational exposure limits may lead to silicosis and is also associated with a number of other diseases (bronchitis, emphysema, etc.). Smoking may increase the risk on adverse effects. Carcinogenicity: Crystalline silica is classified as a human carcinogen (Group I) by the IARC (International Agency for Research on Cancer).

Section 12: Ecological information*

Ecotoxicity: not known. Mobility in the environment: Emissions tests show the emission of metals and sulphate to be less than 5 % of the maximum allowable emission. Persistence in the environment and degradation: not biologically degradable. Possible bioaccumulation: not applicable. Other adverse effects: not known.

Section 13: Disposal considerations*

Product should be disposed of in accordance with national and local regulations. Refer to section 8 for preventive measures in the event of dust generation during disposal and dumping.

Section 14: Transport information*

Classification: This product is not classified as hazardous according to RID, ADR, ADNR, IMDG, IATA-DGR regulations. Labeling: none

Section 15: Regulatory information*

Labeling according to EC-Directives: This product is not classified and not subject to labeling according to Directive 199945/EC.

Section 16: Other information:

When installing or processing tiles please take note of the following additional safety measures:

- Wear adequate working clothes
- Wear knee protection
- Wear safety shoes
- Use appropriate lifting and transporting equipment

The information and data in this Safety Data Sheet are based on current scientific and technical state of the art and are believed to be accurate at the printing date. The information refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended. This SDS cancels and replaces any preceding release.