



1. Chemical Product and Company Information

Product name: Glazed Porcelain Tile - **CASTLESTONE**

Company Information

Industrie Ceramiche Piemme S.p.A.

Via del Crociale, 42/44 - 41042 Fiorano (MO) Italy

Emergency Contact Information: +39 (0536) 849111

2. Composition/Ingredient Information

Hazardous Constituents: N/A

Non Hazardous Constituents

Composition	CAS Number	Approximate Percent by Weight
SiO ₂	14808-60-7	60 – 75 %
Al ₂ O ₃	1344-28-1	10 – 20 %
Fe ₂ O ₃	1309-37-1	0.2 – 2 %
CaO	1305-78-8	0.2 – 2 %
TiO ₂	1317-80-2	0.5 – 1.5 %
Na ₂ O	1313-59-3	2 – 5 %
K ₂ O	12136-45-7	1.5 – 4 %
MgO	1309-48-4	0.2 – 2 %

3. Hazards Identification

There are no known hazards physical associated with the use Glazed Porcelain Tile.

4. Health Hazards

Potential Health Effect

This material as packaged should pose no health hazards.

During installation and while cutting the tiles to size the following possible health effects could occur.

Eyes: Dust and small shards of tile could cause injury if Personal Protective Equipment, PPE, is not worn properly. Refer to the PPE section for PPE requirements.

Skin:

Dust and sharp edges generated during installation could cause irritation and lacerations if proper PPE is not worn. Refer to the PPE section for PPE requirements.



Ingestion: Ingestion of small amounts of dust should not cause harmful effects. Larger pieces could damage the intestinal tract and therefore any area where tiles are being prepared for installation should be thoroughly cleaned to prevent the ingestion of shards or larger pieces and to minimize the ingestion of dust prior to food being brought into area. Any food in the area during installation should be discarded to prevent possible ingestion of glazed porcelain shards or pieces.

Inhalation: Inhalation of dust generated during installation could cause upper respiratory tract irritation and in rare cases allergic/asthmatic reactions. To prevent inhalation engineering controls should be installed whenever practicable and ventilation maximized. If engineering controls are not available or practicable proper PPE should be worn at all times when glazed porcelain tile dust is present.

5. Fire Fighting Measures

Glazed Porcelain Tile is not flammable under normal circumstance so any fire fighting measures should be tailored to the materials around tile. This includes the cardboard packaging materials and any other shipping containers the tile is received in.

6. Accidental Release Measures

Glazed Porcelain Tile does not in itself present any danger during an accidental release save the possibility that the tile could bury workers. There are no known environmental risks should the tile enter the environment. Spilled and broken tile should be disposed of as per local regulations for standard trash in a lined landfill.

7. Handling and Storage

Care should be taken during the handling and storage of Glazed Porcelain Tile due to the high density of the materials. Each package weights in excess 48.5 lbs (22Kg). No more than one package should be transferred at a time to prevent personal injury. When being handled at low temperatures 50F (10°C), the tile can become brittle and crack and chip more easily than under normal conditions. Extra care should be taken in handling of the tile in this conditions. When storing on shelves or racks the density of the tile should be taken into account prior to storing to prevent the overloading of the shelf unit.

8. Exposure Controls/Personal Protection

During storage and transport Glazed Porcelain Tile should pose no unusual risk to personal safety. During installation when the tile is cut and formed there are risks to personal safety. To minimize these risks the following minimum engineering controls and PPE are recommended.

Engineering Controls: Engineering controls in the form of ventilation and dust control should be implemented when installing tile. This includes using a wet saw when



cutting tile to size, opening windows and positioning ventilation fans to disperse the dust generated during the installation. The main hazard of Glazed Porcelain Tile to personnel is through inhalation and lacerations from sharp newly cut edges. The use of properly maintained and serviced cutting equipment and PPE should minimize these risks.

Personal Protection Equipment, PPE: Personal Protection Equipment, PPE, should be worn at all times when installing Glazed Porcelain Tile. The main risks associated with the installation of tile are due to the dust and sharp edges generated while cutting and shaping the tile to size. To minimize these hazards the following PPE should be worn when performing the listed tasks.

Cutting and shaping: Safety goggles, dust mask, leather gloves and safety shoes with steel toes and metatarsal protection

Installing and positioning: Safety goggles, dust mask, leather gloves and safety shoes with steel toes and metatarsal protection

Carrying and stacking: Leather gloves and safety shoes with steel toes and metatarsal protection

9. Physical and Chemical Properties

Glazed Porcelain Tile is inert under normal conditions.

Boiling point: N/A

Vapor pressure: N/A

State: Solid

Color: Various

Odor: N/A

PH: N/A

10. Stability and Reactivity

This material is stable and not readily reactive with most solvents, acids or caustics.

11. Toxicological Information

No Data

12. Ecological Information



No Data

13. Disposal Consideration

Dispose of in accordance with all federal, state, and local regulations.

14. Transport Information

This material is not regulated by US DOT or Canadian TDG regulations.

15. Regulatory Information

This material is not regulated under any of the following federal regulations:

- TSCA
- CERCLA
- SARA 302, 313

16. Proposition 65 Data

This product contains Silica that is suspected carcinogen. Extreme care should be taken to prevent exposure to the dust generated during installation. Refer to the "Personal Protection" section for more details.