

Material safety data sheet

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Pag. 1/4

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME: Floor and Wall Unglazed Porcelain Tile

PRODUCT CODES: All current product references

PRODUCT USE: Building Material - Dry pressed porcelain tiles for internal or external wall and floorings, according to ISO 13006 / EN 14411 – Annex G – Group B1a

OTHER USE: None

CHEMICAL NAME: N/A

CHEMICAL FAMILY: N/A

CHEMICAL FORMULA: N/A

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Section 2: HAZARDS IDENTIFICATION

Porcelain tile for itself is not hazardous. Tiles are mixtures of natural compounds like clays, feldspars, kaolin's and colorants, mixed with water and fired at in kilns at very high temperatures (around 1200°C). The finished tiles do not present immediate hazard to health, since they are stable, odorless, non-flammable and there is no release of hazardous substances.

The hazard is present in the dust that comes from operations such as cutting during installation, demolition or removal projects. In these operations it may be needed the use of respiratory, hand and eye protection to prevent excess exposure to airborne particles. Only in these operations a hazard to health can occur due to breathable crystalline silica.

Classifications Label as a result of dust/breathable Crystalline Silica:



Category 3 (Respiratory Tract irritation – H335)



Category 1A (Carcinogenicity – H372)

Label Signal Word: Danger

Hazard Statements: H350 – May cause Cancer (inhalation)

H335 - May cause respiratory irritation

H372 – Causes damage to organs (lung/respiratory) through prolonged or repeated exposure (inhalation)

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

As referred above, tiles are a mixture of the following ingredients: clays, feldspars, kaolin's and other natural minerals, so under normal conditions, tiles will not release hazardous materials after installation and are not considered as hazardous waste when disposable.

	CAS Registry Number	%
Feldspar	68476-25-5	40-45
Clay	1302-87-0	30-35
Kaolin	1332-58-7	20-25

Section 4: FIRST AID MEASURES

The first aid measures presented below are applied in the result of cutting, crushing, grinding or sawing so intact tiles pose no need for the first aids presented.

EYE CONTACT: Rinse immediately with current water for several minutes. Seek medical attention if irritation persist.

INHALATION: Remove victim to fresh air. Place in comfortable breathing position. Seek medical attention if breathing becomes difficult at any time.

INGESTION: Rinse mouth with water. Do not induce vomiting.

Most important symptoms and effects, both acute and delayed:

When installing the tiles, the cutting stage of the process may produce breathable crystalline silica. Chronic or repeated inhalation of airborne dust/particles from cut or broken tiles can cause Pulmonary Fibrosis, commonly known as Silicosis, and/or other lung cancers.

Immediate medical attention/special treatment:

Due to single exposure emergency medical attention is not necessary, however, chronic inhalation in dust/particle form may lead to lung disorders requiring medical intervention and further treatments.

Section 5: FIRE-FIGHTING MEASURES

Non-flammable

Extinguishing Media: N/A

Unusual Fire or Explosion Hazards: N/A

Recommended Fire-Fighting Procedures: N/A

Section 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: To prevent dust/particle production, it is highly recommended wet cutting.

PROTECTIVE EQUIPMENT: A dust collection system is recommended. Eye and respiratory protection are required when exposed to an environment containing airborne particles/dust.

EMERGENCY PROCEDURES: None expected.

METHODS FOR CONTAINMENT AND CLEANING UP: For the clean-up of large amounts of dust/particles a vacuum container is recommended.

Section 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Breaking tiles can produce potentially harmful dust/particles, therefore in order to avoid unwanted breaks they must be handled with caution.

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

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

CONTROL PARAMETERS:

Respect workplace regulatory exposure limits for various types of airborne dust: total dust; respirable dust; crystalline silica breathable.

EXPOSURE CONTROLS:

Ventilation: General ventilation should be sufficient for most operations; nevertheless, local exhaust ventilation must be used to keep exposure to dust below the recommended exposure levels. The highest probability of silica exposure occurs in the operations of cutting and removal of installed tile. Wet cutting methods are recommended to reduce any risk.

Eye protection: Not required for normal use. In the absence of methods to minimize the production of dust, wear safety glasses with side protection.

Hand/Skin protection: When cutting tiles, use work gloves to protect hands from dust and/or cuts.

Respiratory protection: In the event of exposure to dust, wear respiratory protection.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance and color:	Solid (various colors)
Odor:	None (odorless)
pH:	N/A
Melting point/freezing point:	N/A
Initial boiling point and boiling range:	N/A
Flammability:	not flammable
Vapor density:	N/A
Flash point:	N/A
Evaporation rate:	N/A
Vapor pressure:	N/A
Solubility in water:	insoluble
Solubility in oil:	N/A
Partition coefficient: n-octanol/water:	N/A
Auto-ignition temperature:	not self-inflammatory
Decomposition temperature:	N/A
Viscosity:	N/A
Explosive properties:	N/A
Oxidizing properties:	N/A
Volatility:	None

Section 10: STABILITY AND RELIABILITY

Reactivity:	Inert
Chemical stability:	Stable in normal condition
Possibility of hazardous reactions:	None Known
Conditions to avoid:	Avoid exposing product to acids
Stability:	Stable in normal conditions
Incompatible materials:	Avoid exposing product to acids
Hazardous decomp. products:	None

Section 11: TOXICOLOGICAL INFORMATION

Intact tile does not have any known harmful routes of exposure. Hazards come from dust/particles result of cutting or breaking during installation and operations such as demolition or removal projects.

Routes of entry:

Intact tile: None

Cut or broken tile: Eyes: Yes / Inhalation: yes / Ingestion: yes / Skin: yes

Acute Effects:

Intact tile: None

Cut or broken tile: Exposure to dust/particles from cutting may cause irritation to the skin, eyes, respiratory tract or even breathing difficulties. Lung disorders such as Silicosis, Pulmonary Fibrosis and other lungs disorders can result from repeated inhalation of dust/particles.

Chronic Effects:

Intact tile: None

Cut or broken tile: Prolonged and continued exposure to respirable crystalline silica at values above the permitted limit can have harmful effects on one's health. Possible illnesses resulting are: Silicosis, Pulmonary Fibrosis, Lung cancer and other diseases of the organ system.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:	None Known
Persistence and degradability:	None Known
Bioaccumulative potential:	None Known
Mobility in soil:	None Known
Other adverse effects:	None Known

Section 13: DISPOSAL CONSIDERATIONS

Ceramic tiles are building material, so, if possible they should be recovered or disposed in a certified landfilled authorized in accordance with the relevant local and national legislation.

Section 14: TRANSPORT INFORMATION

ID Number:	N/A
Hazard Class:	N/A
Marking:	N/A
Label:	N/A
Environmental Hazards:	None
Hazardous Substance	None
Shipping Description:	N/A
Packaging References:	N/A

Section 15: REGULATORY INFORMATION

This data sheet is based on the information presently available. Ceramic tiles in its intact form do not present any hazard.

The information related to potential hazards is associated to dust and particles as a result of cutting and breaking ceramic tiles.

Section 16: OTHER INFORMATION

None