

Ceramic, Porcelain and Mosaic

# MATERIAL SAFETY DATA SHEET

## Section 1. IDENTIFICATION

Ceramic, porcelain and mosaic material  
for surface application.

**Supplier of the information of the safety  
data sheet:**

Brady Tile Importers Pty Ltd  
85 Crockford Street, Northgate, QLD 4013

## Section 2: HAZARDS IDENTIFICATION

NOHSC's National Model Regulations for the Control of Workplace Hazardous Substances [NOHSC:1005(1994) adopts European Classification from 67/548/EEC. Safe Work Australia Decision RIS (Feb 23)

**Ceramic, Porcelain and mosaic tiles that are fixed and installed do not pose any risk to health.** However, Tiles are a mixture of natural compounds like clays, feldspars, kaolin and colorants mixed with water and fired at very high temperatures. The finished tiles do not present immediate hazard to health since they are stable, odorless, non-inflammable and there is no release of hazardous substance.

**The hazard arises in the dust that comes from operations such as grinding, cutting, polishing, demolition or manufacturing** as the dust may contain respirable **crystalline silica** that can cause pulmonary fibrosis/silicosis and other pulmonary diseases. Hence, **precautions must be taken to prevent excess exposure to airborne particles.** Only in these operations a hazard to health can occur due to breathable crystalline silica.

## Danger Statements: (Safe Work Australia)

Crystalline Silica:



Category 3 (Respiratory tract irritation) (H335)



Categories 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: Preventative and Protection Measures:

Do Not handle the material before reading and understanding the safety instructions.

Do not breathe the dust generated during cutting, grinding, demolition or polishing the product.

- use water to suppress dust whilst processing products
- PPE for safety (steel-toe boots, protective work wear, hard hats, gloves) National guidance material Working with silica and silica containing products
- eye protection (AS 1337) to protect worker's eyes
- \*Occupational protective gloves (AS2161)
- P2/N95 RPE masks (AS1715. AS 1716)
- Thoroughly wash face and hands with water after handling
- Consult a doctor in the event of discomfort.

## Section 4: COMPOSITION INFORMATION

Ceramic, Porcelain and mosaics include clay, feldspar, kaolin and colorants and silica sand. **Crystalline silica may constitute between 5% to 45% in these products.**

## Section 5: PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour: Solid (various colours)  
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  
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-inflamatory  
Decomposition temperature: N/A  
Viscosity: N/A Explosive properties: N/A  
Volatility: None

## Section 6. Stability and Reactivity

Reactivity: N/A  
Chemical stability: n/a  
Possibility of hazardous reactions: n/a  
Known Conditions to avoid: Avoid formation of dust.  
Incompatible materials: Avoid exposing to acids.  
Hazardous decomp. products: None known

## Section 7 Toxicological Information

**Intact Tile does not have no known harmful** routes of exposure. Hazards come from dust/particles result of cutting or breaking during installation and operations such as demolition.

### ROUTES OF ENTRY:

**Intact Tile:** none

**Cut or Broken Tiles:** Eyes: Yes/ Inhalation Yes / Ingestion: Yes / Skin: yes

### ACUTE EFFECTS:

**Intact Tile:** NONE

**Cut or Broken Tiles:** 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 lung disorders can result from repeated inhalation of dust.

### CHRONIC EFFECTS:

**Intact Tile:** NONE

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

### Potential Adverse Interactions:

Silicosis may be complicated by severe mycobacterial or fungal infections and result in tuberculosis. Studies establish that silicosis is a risk factor for developing TB. Any existing respiratory or pulmonary diseases may be complicated by exposure to respirable crystalline silica

Smoking may increase the risk of adverse effects if done in conjunction with occupational exposure to silica dust.

## Section 8 Ecological Information

Ecotoxicity: Tile/Stone offcuts – no ecological risk.

Generally non-toxic.

**Persistence and Degradability:** The/Stone products are persistent and not degradable.

**Mobility:** Low mobility would be expected in a landfill situation.

## Section 9 Disposal Considerations

The waste can be assimilated to inert construction waste, so it must be removed by the authorities for this purpose. Avoid dust generation during disposal. Observe exposure to people and personal precautions.

## Section 10 Transportation Information

Ceramic material is not restricted in any of the following categories:

Transport of Dangerous Goods

International Transport of dangerous goods by rail

Maritime transport

Air transport

## Section 11 Regulatory Information

This Safety Data Sheet was prepared by Brady Tile Imports Pty Ltd in accordance with Safe Work Australia's "Model Code of Practice".