

Section 1: Identification

- **Product Name:** Porcelain Tiles (Dry-Pressed Ceramic Tiles, Absorption <0.5%, Group BIa)
- **Recommended Use:** Floor and wall coverings, indoor and outdoor.
- **Manufacturer:** Altea Ceramics LLC 2005 McDaniel Dr #122, Carrollton, TX 75006
- **Telephone:** (945) 446-5648
- **Emergency Contact (U.S.):** Chemtrec 1-800-424-9300 (international +1-703-527-3887)

Section 2: Hazard(s) Identification

- **Classification (OSHA 29 CFR 1910.1200):**
 - Carcinogenicity (Category 1A, inhalation – respirable crystalline silica dust)
 - Specific Target Organ Toxicity – Repeated Exposure (Category 1, lungs)
- **Signal Word:** DANGER
- **Hazard Pictogram:** [GHS08 Health Hazard] (health hazard pictogram)
- **Hazard Statements:**
 - May cause cancer by inhalation.
 - Causes damage to lungs through prolonged or repeated exposure (respirable crystalline silica generated during cutting or grinding).
- **Precautionary Statements:**
 - Do not breathe dust.
 - Use only outdoors or in well-ventilated area.
 - Wear protective gloves, clothing, eye protection, and a NIOSH-approved respirator (N95 or higher).
 - If exposed or concerned: Get medical advice/attention.
 - Dispose of contents in accordance with federal, state, and local regulations.



Section 3: Composition/Information on Ingredients

- **Substance/Mixture:** Article (manufactured ceramic tile)
- **Typical Composition (post-firing):**
 - Clay minerals (kaolinite, illite): 40–60% (not hazardous)
 - Feldspars and fluxes: 20–40% (not hazardous)
 - Quartz (SiO₂, CAS No. 14808-60-7): 10–25% (respirable crystalline silica hazard when airborne dust is generated)
 - Pigments, frits, glazes: <5% (non-hazardous)

Section 4: First-Aid Measures

- **Inhalation:** Move person to fresh air. Seek medical advice if symptoms such as coughing or breathing difficulty occur
- **Skin Contact:** Wash with soap and water. Seek medical attention if irritation persists.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.
- **Ingestion:** Not a likely route of exposure. If swallowed, rinse mouth with water and seek medical attention if discomfort occurs.
- **Note to Physician:** Treat symptomatically. Long-term medical surveillance may be needed for repeated respirable crystalline silica exposure.

Section 5: Firefighting Measures

- **Suitable Extinguishing Media:** Product is non-combustible. Use media suitable for surrounding fire.
- **Special Hazards:** Product does not burn. Packaging materials may release carbon oxides when burning.
- **Protective Equipment:** Firefighters should wear full protective gear and self-contained breathing apparatus.

Section 6: Accidental Release Measures

- **Personal Precautions:** Avoid dust generation. Wear NIOSH-approved respirator and protective equipment.
- **Methods for Containment/Cleanup:** Collect mechanically. Vacuum preferred. Avoid dry sweeping. Dispose of in accordance with local, state, and federal regulations.

Section 7: Handling and Storage

- **Handling:** Avoid generating dust during cutting, drilling, or grinding. Wet-cutting recommended. Handle with gloves to avoid cuts.
- **Storage:** Store in dry, stable conditions. Stack to prevent breakage.

Section 8: Exposure Controls/Personal Protection

- **Occupational Exposure Limits:**
 - OSHA PEL for respirable crystalline silica (quartz): 50 $\mu\text{g}/\text{m}^3$ TWA (8-hr).
 - ACGIH TLV: 0.025 mg/m^3 (respirable fraction).
- **Engineering Controls:** Local exhaust ventilation when cutting or grinding. Wet processes preferred.
- **Personal Protective Equipment:**
 - Respiratory Protection: NIOSH-approved N95 or higher.
 - Eye/Face: Safety glasses or face shield.
 - Hands: Cut-resistant gloves.
 - Skin/Body: Protective clothing if heavy dust is generated.

Section 9: Physical and Chemical Properties

- **Appearance:** Solid tile, variable color/design
- **Odor:** Odorless
- **Water Absorption:** <0.5%
- **Solubility:** Insoluble in water
- **Melting Point:** Not applicable (inert ceramic product)

Section 10: Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Reactivity:** Inert.
- **Hazardous Decomposition Products:** None under normal use.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation of dust, skin and eye contact.
- **Acute Effects:** Dust may cause irritation of eyes, skin, respiratory tract.
- **Chronic Effects:** Long-term inhalation of respirable crystalline silica may cause silicosis, lung cancer, and other respiratory diseases.
- **Carcinogenicity:**
 - IARC: Group 1 (carcinogenic to humans)
 - NTP: Known human carcinogen
 - OSHA: Regulated carcinogen

Section 12: Ecological Information

- Inert material; not expected to cause adverse environmental effects.
- Non-biodegradable, stable solid.



Section 13: Disposal Considerations

- Dispose of waste in accordance with federal, state, and local regulations.
- Not considered hazardous waste under RCRA when disposed as solid inert waste.

Section 14: Transport Information

- **DOT:** Not regulated.
- **IMDG/IATA:** Not classified as dangerous goods.

Section 15: Regulatory Information

- **OSHA HazCom (29 CFR 1910.1200):** Classified as hazardous due to respirable crystalline silica.
- **TSCA:** All ingredients are listed.
- **CERCLA/SARA:** Not subject to reporting.
- **California Prop 65: WARNING:** This product can expose you to respirable crystalline silica, which is known to the State of California to cause cancer.

Section 16: Other Information

- **Date of Preparation/Revision:** [Insert date]
- **Prepared By:** [Your company's Safety/Compliance Department]
- **Disclaimer:** The information contained herein is based on data believed accurate at the time of preparation. No warranty is expressed or implied. Users are responsible for safe handling and compliance with applicable regulations.

