

Safety Data Sheet (SDS)

For Creative Paradise Inc. Fired Bisque

Revision Date: August 31, 2023

1. Identification

- **Product Identifier:**
 - Glass Molds:** DT01-DT46, FLBGM267, FLBGM28, FLBGM30-FLBGM32, GM001-GM275, GT01-GT04, GX01-GX23, LBGGM267, LBGGM30-LBGGM32, and LF01-LF251
- **Common Name:** Unglazed Ceramic Bisque Tile
- **Synonyms:** Unglazed Ceramic Tile / Bisque Tile
- **Relevant Identified Uses of the Substance or Mixture:**
 - Fired bisque is the single component of shaped molds for firing and fusing glass.
- **Product Description:**
 - Fired bisque is the solid result of firing liquid clay slip to specific temperatures.
- **Details of the Supplier of the Safety Data Sheet:**
 - Creative Paradise Inc.
 - 415 East Industrial Street
 - Goddard, KS 67052
 - United States of America
 - 1-316-794-8621
- **Emergency Number:**
 - In case of emergency, contact regional or local Poison Control Center.
- **Restrictions on Use:**
 - None applicable.

2. Hazard Identification

- **Classification of the Substance or Mixture:**
 - Unglazed Ceramic Tile products are mixtures of predominantly clays, silica sand, and other naturally occurring minerals that have been mixed with water and fired in a high temperature kiln. The finished, fired tiles are odorless, stable, non-flammable, and pose no immediate hazard to health. Respiratory, hand, and eye protection may be needed to prevent excess exposure to airborne particulates if dust is produced by cutting or otherwise manipulating Bisque Tiles.
- **Label Elements:**
 - **GHS Classification:**
 - **Carcinogenicity:**
 - Category 1A (H350)
 - **Specific Target Organ Toxicity, Single Exposure:**
 - Category 3 (Respiratory Tract Irritation) (H335)
 - **Specific Target Organ Toxicity, Repeated Exposure:**
 - Category 1A(H372)

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- **GHS Pictograms:**

- 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)

- **Classification Systems:**

- **Global Harmonization Identification System:**

- **Health:** 3
 - **Fire:** 4
 - **Reactivity:** 4

- **Hazardous Material Identification System:**

- **Health:** 0
 - **Fire:** 0
 - **Reactivity:** 0

- **National Fire Protection Association:**

- **Health:** 0
 - **Fire:** 0
 - **Reactivity:** 0

- **Precautionary Statements:**

- Do not handle until all safety precautions have been read and understood. (P202)
 - Do not breathe dust. (P260 + P261)
 - Wash skin thoroughly after handling. (P264)
 - Do not eat, drink, or smoke when using this product (P270)
 - Wear protective gloves, protective clothing, eye protection, face protection. (P280)

- **Potential Health Effects:**

- Inhalation:** Do not breathe dust. See “Health Hazards” in **Section 11** for more details.

3. Composition/Information on Ingredients

- **Chemical Characterization:**

- Solid

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- **Description:**

Bisque Tile products are mixtures of predominately Clays, Silica Sand and other naturally occurring minerals that have been mixed with water and fired in a high temperature kiln.

- **Dangerous Components:**

Name / Composition	CAS# / EINECS#	Estimated % by Wt.
Amorphous silica (fused)	CAS: 60676-86-0 EINECS: 238-878-4	0 - 40
Crystalline silica as quartz	CAS: 14808-60-7 EINECS: 238-878-4	7 - 10
Talc	CAS: 14807-96-6 EINECS: 265-064-6	0 - 40
Clays	CAS: 1332-58-7 EINECS: 265-064-6	30 - 35
Nepheline syenite	CAS: 37244-96-5 EINECS: N/A	10 - 15
Zirconium oxide	CAS: 7440-67-7 EINECS: 215-479-3	10 - 15
Feldspar	CAS: 68476-25-5 EINECS: 270-666-7	0 - 15

4. First-Aid Measures

- **General Information:**

Have emergency eyewash stations available in areas where Bisque Tiles are cut.

- **After Inhalation:**

Move to area with fresh air if exposed to large amounts of Bisque Tile dust. Administer artificial respiration if breathing has stopped and keep victim at rest. Call for prompt medical attention.

- **After Skin Contact:**

Mixture does not typically irritate skin and can be washed with soap and water. However, if skin becomes irritated, seek medical attention.

- **After Eye Contact:**

Immediately flush eyes with large amounts of water for at least 15 minutes if dust gets in eyes. Seek medical attention if irritation persists.

- **After Swallowing:**

Not applicable.

5. Fire-Fighting Measures

- **General Fire Hazards:**

Not applicable – material is non-flammable.

- **Extinguishing Media:**

None required – material is non-flammable.

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- **Fire and Explosion Hazards:**
None.
- **Flashpoint:**
Not applicable.
- **Autoignition Temperature:**
Not applicable.
- **Flammable Limits (% by Volume in Air):**
 - LEL: Not applicable.
 - UEL: Not applicable.

6. Accidental Release Measures

- **Methods and Materials for Containment and Cleaning Up:**
Avoid creating excessive dust. Clean up dust with a vacuum system with a High-Efficiency Particulate (HEPA) air filter vacuum or damp sweeping.
- **Reference to Other Sections:**
 - See **Section 7** for information on Safe Handling
 - See **Section 8** for information on Personal Protection Equipment
 - See **Section 13** for Disposal Information
 -

7. Handling and Storage

- **Precautions for Safe Handling:**
Do not dry cut using motorized equipment due to potential exposure to harmful silica dust. Use wet cutting techniques to reduce dust generation potential. When cutting, grinding, or otherwise removing material, use equipment with integral dust collection and/or use local exhaust ventilation. Use respiratory protection in the absence of effective engineering controls.
- **Storage Requirements and Information:**
Do not store near acids. If Bisque Tiles contact some acids, damage or discoloration to the surface may occur. Shelf life is unlimited.

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8. Exposure Controls/Personal Protection

- **Control Parameters:**

- **Components with Occupational Exposure Limits:**

Crystalline silica as quartz	
PEL	15 mg/m ³ (Total Dust) 0.05 mg/m ³ (Respirable Fraction)
REL	N.E. (Total Dust) 0.05 mg/m ³ (Respirable Fraction)
TLV	N.E. (Total Dust) 0.025 mg/m ³ (Respirable Fraction)
Clays	
PEL	15 mg/m ³ (Total Dust)* 5 mg/m ³ (Respirable Fraction)
REL	N.E. (Total Dust)* N.E. (Respirable Fraction)
TLV	10 mg/m ³ (Total Dust)* 2 mg/m ³ (Respirable Fraction)
Talc	
PEL	15 mg/m ³ (Total Dust)* 2 mg/m ³ (Respirable Fraction)
REL	10 mg/m ³ (Total Dust)* 2 mg/m ³ (Respirable Fraction)
TLV	10 mg/m ³ (Total Dust)* 2 mg/m ³ (Respirable Fraction)
Feldspar	
PEL	15 mg/m ³ (Total Dust)* N.E. (Respirable Fraction)
REL	N.E. (Total Dust)* N.E. (Respirable Fraction)
TLV	N.E. (Total Dust)* N.E. (Respirable Fraction)
Calcium	
PEL	15 mg/m ³ (Total Dust)* 5 mg/m ³ (Respirable Fraction)*
REL	N.E. (Total Dust)* 15 mg/m ³ (Respirable Fraction)*
TLV	N.E. (Total Dust)* 3 mg/m ³ (Respirable Fraction)*

*Covered as particles not otherwise regulated per OSHA and particles not otherwise classified as per ACGIH TLV

N.E. – Not Established

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- **Personal Protection:**

- **Ventilation:**

Use adequate ventilation to keep exposure to dust below recommended exposure levels. Avoid inhalation of dust whenever possible. The highest probability of silica exposure occurs when modifying Bisque Tile using dry removal methods such as cutting or sanding. Use wet removal methods to reduce generation of dust.

- **Respiratory Protection:**

Use of a properly fitted NIOSH/MSHA approved particulate respirator when cutting or otherwise modifying Bisque Tile is recommended.

- **Skin Protection:**

Cotton or leather work gloves should be worn when cutting or otherwise modifying Bisque Tile to minimize skin exposure to dust and/or mechanical injury. Wash hands prior to eating, drinking, or smoking, and at the end of any work shift during which cutting or other modification operations are conducted.

- **Eye Protection:**

Use dust-proof goggles or safety glasses with side shields. Contact lenses may absorb irritants and should not be worn in work areas.

9. Physical and Chemical Properties

- **Appearance:** Brittle solid
- **Color:** White to tan
- **Physical State:** Solid
- **Odor:** Odorless
- **Boiling Point:** Not applicable.
- **Melting Point:** >1200°C (>2150°F)
- **Freezing Point:** Not applicable.
- **Relative Density:** Not applicable.
- **Solubility in Water:** Insoluble.
- **Specific Gravity ((H2)=1):** 1.6 to 2.1
- **Viscosity:** Not applicable.
- **Volatility:** 0 g/L Volatile Organic Compounds (VOCs)
- **Percent Volatile by Volume:** Not applicable.

10. Stability and Reactivity

- **Reactivity and Stability:** Stable in current form.
- **Possibility of Hazardous Reactions:** No dangerous reactions known.
- **Conditions to Avoid:** Avoid contact with acids (i.e. acetic, hydrofluoric, etc.).
- **Incompatible Materials:** Avoid contact with acids (i.e. acetic, hydrofluoric, etc.).
- **Hazardous Decomposition Products:** No dangerous decomposition products known.

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11. Toxicological Information

- **Primary Route of Exposure:**

None for intact Bisque Tile. However, if Bisque Tile is cut, broken, or otherwise modified, inhalation and potential exposure of dust to eyes, hands, or other body parts may occur.

- **Acute Short-Term Exposure Effects:**

None are known for intact Bisque Tile. Cut or broken Bisque Tile can create the potential for cuts to the hands and/or other exposed body parts. Acute effects such as eye irritation may occur as a result of dust-creating operations such as dry cutting.

In very rare cases symptoms of acute silicosis, a form of silicosis (a nodular pulmonary fibrosis) associated with exposure to respirable crystalline silica may develop following acute exposure to high-dust environments. Symptoms such as labored breathing and early fatigue may indicate silicosis, however these same symptoms can also arise from many other causes.

- **Chronic Long-Term Exposure Effects:**

None are known for intact Bisque Tile. Long-term, continual exposure to respirable crystalline silica dust from cut or modified Bisque Tile at or above established limits may lead to the development of silicosis as mentioned above. Symptoms such as labored breathing and early fatigue may indicate silicosis, however these same symptoms can also arise from many other causes.

Nodular pulmonary fibroses such as silicosis are also associated with pulmonary tuberculosis, bronchitis, emphysema, and other airway diseases. This type of chronic exposure to silica dust may also result in the development of autoimmune disorders, chronic renal disease, and other adverse health effects.

- **Potential Adverse Reactions:**

Silicosis may be complicated by severe mycobacterial or fungal infections and result in tuberculosis (TB). Epidemiologic studies have established silicosis as a risk factor for developing TB. Smoking may increase the risk of adverse effects.

- **Medical Conditions Aggravated by Exposure:**

Any existing respiratory or pulmonary diseases may be complicated by exposure to respirable crystalline silica.

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- **Information on Toxicological Effects:**

- **Relevant LD/LC50 Values:**

Silica		
LD50	Rat (Oral)	>22,500 mg/kg
LD50	Mouse (Oral)	>15,000 mg/kg
LD50	Carp	>10,000 mg/L (per 72 hr)

- **Carcinogenic Categories:**

- **IARC (International Agency for Research on Cancer):**

Silica dust, crystalline	
Category:	1 – Carcinogenic to humans

- None of the other ingredients are listed as of the updating of this SDS.

- **NTP (National Toxicology Program):**

Silica dust, crystalline	
Category:	1 – Known to be a Human Carcinogen

- None of the other ingredients are listed as of the updating of this SDS.

- **OSHA (Occupational Safety & Health Administration):**

- Though not currently listed, crystalline silica is recommended for consideration as a potential occupational carcinogen.
- No other ingredients are listed as of the updating of this SDS

12. Ecological Information

- No information available at this time.

13. Disposal Considerations

- **Appropriate Disposal Methods:**

Observe all federal, state, and local environmental regulations when disposing of this material.

- **Physical and Chemical Properties that May Affect Disposal:**

Any dust produced through the cutting or other modification of Bisque Tile should be placed in a sealed container or disposed of in another manner that reduces or eliminates the aerial release of product.

- **Special Precautions for Landfills or Incineration Activities:**

There are no special precautions for disposal in a landfill. This solid is non-combustible and unsuitable for incineration.

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14. Transport Information

- **US DOT Shipping Name:** Not applicable.
- **Hazard Class:** Non-regulated.
- **ID Number:** Not applicable.
- **Marking:** Not applicable.
- **Label:** None.
- **Placard:** None
- **Hazardous Substance/RQ:** Not applicable.
- **Shipping Description:** Ceramic/Bisque Tile
- **Packaging References:** None.
- **General:**

This product is not regulated for transportation under the IATA/ICAO, IMDG, EU ADR, or Canadian TDG Regulations.

15. Regulatory Information

- **TSCA (Toxic Substances Control Act):**

This product and/or its components have been previously introduced into U.S. commerce and is listed in the Toxic Substances Control Act (TSCA) Inventory of Chemicals in Commerce. Hence, it is subject to all applicable provisions and restrictions under TSCA 40 CFR Section 721 and 723.250.
- **SARA (Superfund Amendments and Reauthorization):**
 - **Section 355 (Extremely Hazardous Substances):**
 - None of the ingredients are listed.
 - **Section 313 (Specific Toxic Chemical Listings):**
 - Barium Carbonate
 - Manganese
- **California Proposition 65:**
 - This product contains a chemical or chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm according to Title 22 Division 2, California Code of Regulation Chapter 3 (also known as Proposition 65).
- **Occupational Safety and Health Hazard Communication Standard (29 CFR Section 1910.1200):**

This product or its components meets the following hazard definition as defined by the above document:

 - Health Hazard (Refer to **Sections 3 & 11**)
- **Note:**

The information in this data sheet provides information related to the potential hazards associated with the dust which may be produced during cutting or otherwise changing the shape of Bisque Tile.

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16. Other Information

The information and recommendations in this data sheet are, to the best of our knowledge, accurate as of the date of revision.

Date of Last Revision: August 31, 2023