



SAFETY DATA SHEET CERAMIC BISQUE TILE

Lanesboro

1. PRODUCT IDENTIFICATION

Common Name: Unglazed Ceramic Bisque Tile (For purposes of this SDS, the term "ceramic" encompasses all

types of tile products manufactured/sourced by Dal-Tile Corporation.)

Synonyms: Unglazed Ceramic Tile / Bisque Tile

Manufacturer Name: Dal-Tile Corporation
Address: Headquarters Office

7834 C.F. Hawn Freeway, Dallas, TX 75217 stance: Environmental, Health and Safety Department

Emergency Assistance: Environmental, Health and Safety Department Industrial Hygiene Manager - (214) 309-4295

1-800-933-TILE; (214) 398-1411 (24-hour number)

Recommended Use: Unglazed Ceramic Tile products manufactured/sourced by Dal-Tile Corporation can be glazed and

refired and modified accordingly to market demands. Should you desire additional information,

please direct your inquiry to the address above.

This document has been prepared in accordance with the Occupational Safety and Health Administration (OSHA) Hazard Communication standard, 29 Code of Federal Regulations (CFR) 1910.1200(g), Safety Data Sheets.

2. HAZARDS IDENTIFICATION

Unglazed Ceramic Tile products are mixtures of predominantly clays, silica sand, and other natural 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 Bisque tiles or if dust is produced by any other operations, from crushing glazing and/or disposal projects.

Emergency Overview: Danger! Lung injury and Cancer Hazard GHS Classification (Global Harmonized Standard Classification):

Carcinogenicity Category 1A (H350)

Specific target organ toxicity, single exposure; Respiratory tract irritation - Category 3 (H335)

Specific target organ toxicity, repeated exposure - Category 1A (H372)

GHS Label, Hazards and Precautionary Statements

GHS Pictogram:

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)

HAZARDS IDENTIFICATION (CONT)

Precautionary Statements:

Do not handle until all safety precautions have been read and understood. (P202)

Do not breathe dust/spray. (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.

COMPOSITION/INFORMATION ON INGREDIENTS

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.

Unglazed Bisque Tiles are manufactured in various shapes, sizes, and colors. Typically off white in color.

These products do not contain asbestos.

This product as originally manufactured is not considered hazardous waste should disposal be necessary.

Composition	CAS# / EINECS#	Estimated % by Wt.	EU Class	
Amorphous silica (fused)	CAS: 60676-86-0 EINECS: 238-878-4	0-41	(67/548/EEC) Xn R48/20	
Crystalline silica as quartz	CAS: 14808-60-7 EINECS: 238-878-4	7 - 10	(67/548/EEC) Xn R48/20	
Talc	CAS: 14807-96-6	0 - 40	(67/548/EEC)	
Clays	EINECS: 238-877-9 CAS: 1332-58-7	32 - 35	Xi R36/37/38 (67/548/EEC)	
Nepheline syenite	EINECS: 265-064-6 CAS: 37244-96-5	11 - 12	Xi R36/37/38 (67/548/EEC)	
Zirconium Oxide	EINECS: N/A CAS: 7440-67-7	11 - 13	Xi R36/37/38 (67/548/EEC)	
Feldspar	EINECS: 215-479-3 CAS: 68476-25-5	0-15	Xi R36/37/38 (67/548/EEC)	
i Ciuspai	EINECS: 270-666-7	0-13	Xi R36/37/38	

FIRST AID MEASURES

Eyes: Immediately flush eyes with large amounts of water for at least 15 minutes if dust gets in eyes. Get medical

attention if irritation persists.

Skin: Wash thoroughly after working with Bisque tiles.

Inhalation: Remove to fresh air if exposed to large amounts of Bisque tile dust. Administer artificial respiration if breathing

has stopped. Keep victim at rest. Call for prompt medical attention.

Ingestion: Not applicable.

Have emergency eyewash station available in area where Bisque tiles are cut.

FIRE-FIGHTING MEASURES AND INFORMATION

Flash Point (Method Used): Not applicable Autoignition Temperature: Not applicable Flammable Limits (% by Volume in Air): LEL - not applicable

UEL - not applicable

Fire Extinguishing Media: None required Non-flammable

Special Fire Fighting Procedures: None required

Fire and Explosion Hazards: None

6. ACCIDENTAL RELEASE MEASURES

Avoid creating excessive dust. Clean up dust with a vacuum system with a High-efficiency particulate (HEPA) air filter vacuum or damp sweeping. See Section 8 of this SDS concerning PPE information for clean-up.

7. HANDLING AND STORAGE

Do Not Dry Cut using motorized equipment due to potential exposure to Harmful Silica Dust. Use wet cutting methods to reduce generation of dust. When cutting, grinding or removing, use equipment with integral dust collection and/or use local exhaust ventilation. Use respiratory protection in the absence of effective engineering controls.

Do not store near acids. If Bisque tiles contact some acids, damage/discoloration to the surface may occur.

Shelf life is unlimited.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure Table

Composition	OSHA PEL	NIOSH IDLH	ACGIH TLV*	Units
Crystalline silica as quartz -respirable fraction	0.05	0.05	0.025	mg/m ³
-total dust	15	N.E.	N.E.	mg/m ³
Clays				
-respirable fraction	5	N.E.	2	mg/m ³
-total dust**	15	N.E.	10	mg/m ³
Talc				
-respirable fraction	2	2	2	mg/m ³
-total dust**	15	10	10	mg/m ³
Feldspar				
-respirable fraction	N.E	N.E.	N.E.	mg/m ³
-total dust**	15	N.E.	N.E.	mg/m ³
Calcium				
-respirable fraction**	5	15	3	mg/m ³
-total dust**	15	N.E.	N.E.	mg/m ³

^{* 2017} Edition, respirable fraction to be determined as per Appendix D of ACGIH TLV.

8.2 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Use adequate ventilation during installation and/or removal to keep exposure to dust below recommended exposure levels. Avoid inhalation of dust. The highest probability of silica exposure occurs during installation using dry cutting methods or during removal of installed tile. Do Not Dry Cut using motorized equipment due to potential exposure to Harmful Silica Dust. Use wet cutting methods to reduce generation of dust.

Respiratory Protection: Use of a properly fitted NIOSH/MSHA approved particulate respirator is recommended when cutting Bisque tiles or grinding.

Eye Protection: Use dust-proof goggles or safety glasses with side shields. Contact lenses may absorb irritants. Do not wear contact lenses in work areas

Skin Protection: Cotton or leather work gloves should be worn when cutting this product to minimize skin exposure to dust and/or cuts. Wash hands prior to eating, drinking, or smoking, and at the end of the work shift, after cutting operations are conducted.

NOTE: Personal protection information in Section 8 is based on general information for normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the assistance of an industrial hygienist or other qualified professional be obtained.

^{**} Covered as particles not otherwise regulated per OSHA and particles not otherwise classified per ACGIH.

N.D. - Not determined

N.E. - Not established

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Brittle solid; color may vary

Odor: Odorless

Melting Point: Not Available (>2200 °F)

Boiling Point: Not applicable Vapor Pressure: Not applicable Vapor Density (Air = 1): Not applicable Solubility in Water: Insoluble Specific Gravity (H2) = 1: 1.6 to 2.1 Percent Volatile by Volume: Not applicable Evaporation Rate (Ethyl Ether = 1): Not applicable Not applicable Viscosity:

Volatility: 0 g/L Volatile Organic Compounds (VOCs)

10. STABILITY AND REACTIVITY

Stability: Stable in current form.

Conditions to Avoid: Avoid contact with acids (e.g., acetic, hydrofluoric, etc.)
Incompatibility (Materials to Avoid): Avoid contact with acids (e.g., acetic, hydrofluoric, etc.)

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: None.

11. TOXICOLOGICAL INFORMATION

Potential Health Effects

Primary Routes of Exposure

None for intact tile. Inhalation and potential exposure to eyes, hands, or other body parts if contact is made with broken Bisque tile, and/or during procedures involving the cutting of Bisque tiles, and/or for operations involving the grinding Bisque tiles.

Acute Effects

No acute effects from exposure to intact tile are known. Working with broken or cut tile produces a potential for cuts to the hands and exposed body parts. Acute effects such as eye irritation may occur if associated with high dust operations such as dry cutting tile or grinding Bisque tile. 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 extremely dusty environments caused by generation of tile dust. Signs such as labored breathing and early fatigue may indicate silicosis; however, these same symptoms can arise from many other causes.

Chronic Effects

No chronic effects are known for exposure to intact tile. Long-term, continual exposure to respirable crystalline silica at or above established permissible occupational exposure limits may lead to the development of silicosis, a nodular pulmonary fibrosis (NPF). NPFs 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.

Recent enidemiologic studies demonstrate that workers exposed to elevated silica concentrations have a significant risk of developing.

Recent epidemiologic studies demonstrate that workers exposed to elevated silica concentrations have a significant risk of developing chronic silicosis. Signs such as labored breathing and early fatigue may indicate silicosis; however, these same symptoms can also arise from many other causes.

Potential Adverse Interactions

Silicosis may be complicated by severe mycobacterial or fungal infections and result in tuberculosis (TB). Epidemiologic studies have established 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 at or above permissible exposure limits.

Carcinogen Status

Respirable crystalline silica is classified by the International Agency for Research on Cancer (IRAC) as a Group I Carcinogen (carcinogenic to humans). The National Toxicology Program (9th Report) lists respirable crystalline silica as "Known to be a Human Carcinogen". USDOL/OSHA and NIOSH have recommended that crystalline silica be considered a potential occupational carcinogen.

Overview of Animal Testing

Short term experimental studies of rats have found that intratracheal instillation of quartz particles leads to the formation of discrete silicotic nodules in rats, mice and hamsters.

Oral (silica) Lethality

LD50 Rat oral >22,500 mg/kg

LD50 Mouse oral >15,000 mg/kg LC50 Carp >10,000 mg/l (per 72 hr.)

12. ECOLOGICAL INFORMATION

No information available at this time.

13. DISPOSAL CONSIDERATIONS

Waste should be disposed of in a landfill certified to accept such materials in accordance with federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

U.S. D.O.T 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

Not regulated for transportation under the IATA/ICAO, IMDG, EU ADR, or Canadian TDG Regulations.

15. REGULATORY INFORMATION

SDS Preparation Date:

11/23/22

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.

This Bisque tile contains <1 percent by weight each of the following elements, which are SARA 313 Recordable: Antimony, Arsenic, Barium, Beryllium, Cadmium, Cobalt, Chromium, Copper, Manganese, Mercury, Nickel, Lead, Silver, Thallium, Tin, Titanium, Vanadium, and Zinc.

Title 22 Division 2, California Code of Regulation Chapter 3 (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.

This product or its components meets the following hazard definition(s) as defined by the Occupational Safety and Health Hazard Communication Standard (29 CFR Section 1910.1200):

Combustible L	iquid	Flammable	Aerosol	Oxidizer	
Compressed G	as	Explosive		Pyrophoric	
Flammable Ga	s	X Health Haz	ard (Sections 3 & 11)	Unstable	
Flammable Lic	uid	Organic Peroxide		Water Reactive	
Flammable So	id				
Based on infor	mation presently avail	able, this produ	ct does not meet any of the	the hazard definitions of 29 CFR Section 1910.1200.	
0 0	erwise changing the s L INFORMATION	hape of the Bisc	que tile grinding and/or d	lisposal.	
Clobal Hammanizati	un Idantification Systa				
GHIS:	on Identification Syste Health: 3	Fire: 4	Reactivity: 4		
Hazardous Material	Identification System				
HMIS:	Health: 0	Fire: 0	Reactivity: 0		
National Fire Protec	tion Association				
NFPA:	Health: 0	Fire: 0	Reactivity: 0		

Revision Date: