Date of
Preparation: November 2024

SAFETY DATA SHEET
TERRAZZO TILE

1. PRODUCT IDENTIFICATION

Product Name:	Terrazzo Tile products distributed by Trendy Surfaces, Inc.
Synonyms:	Terrazzo
Recommended Use:	Flooring and Wall Application
Manufacturer Name:	Trendy Surfaces, Inc.
Address:	17912 Cowan Unit C Irvine, CA 92614
Telephone:	(714) 284-0118

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

Terrazzo products are mixtures of natural stone and other minerals that have been mixed with a cement-based binder. The finished terrazzo 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 tiles during installation.

Classification of the Chemical in Accordance with Paragraph (d) of 1910.1200:

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)
- Skin corrosion/irritation – Category 2 (H315)
- Serious eye damage/eye irritation – Category 1 (H318)
- Sensitization, skin – Category 1B (H317)

GHS Label, Hazards and Precautionary Statements

GHS Hazard Pictogram:

Crystalline Silica:

Category 3 (Respiratory tract irritation) (H335)

Category 1A (Carcinogenicity) (H372)

Portland Cement: Category 2 (Skin corrosion/irritation) (H315)

GHS Signal Word: Danger

GHS Hazard Statements:

May cause cancer (inhalation) (H350)
May cause respiratory irritation (H335)
Causes damage to organs (lung/respiratory) through prolonged or repeated exposure (inhalation) (H372)
Causes skin irritation (H315)
May cause an allergic skin reaction (H317)
Causes serious eye damage (H318)

GHS Precautionary Statements:

Obtain, read and follow all safety instructions before use. (P203)
Do not breathe dust/spray. (P260 + P261)
Wash skin thoroughly after handling. (P264)
Do not eat, drink, or smoke when using this product. (P270)
Use only outdoors or in a well-ventilated area (P271)
Wear protective gloves, protective clothing, eye protection, face protection. (P280)
Contaminated work clothing should not be allowed out of the workplace (P272)

Unknown Acute Toxicity:

Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Terrazzo products are mixtures of natural stone and other minerals that have been mixed with a cement-based binder. Terrazzo products have been manufactured in various shapes, sizes, and colors. Under normal conditions these products do not release hazardous materials after installation and are not considered hazardous waste, should disposal be necessary.

Composition	CAS#		Estimated % by Wt.
Crystalline Silica as Quartz	CAS:	14808-60-7	<1%
Portland Cement	CAS:	65997-15-1	<17%
Limestone	CAS:	1317-65-3	38-42%
Magnesium Carbonate	CAS:	546-93-0	30-32%
Vinyl Acetate	CAS:	108-05-4	<1%

4. FIRST AID MEASURES

Description of 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. Remove contact lenses and continue rinsing.
Skin: Wash thoroughly after working with terrazzo tiles.
Inhalation: Remove to fresh air if exposed to large amounts of dust. Administer artificial respiration if breathing has stopped. Keep individual at rest. Call for prompt medical attention.
Ingestion: Not applicable for intact tiles.

Most Important Symptoms/Effects, Acute and Delayed:

May cause respiratory irritation. May cause cancer. May cause damage to lungs through prolonged or repeated exposure. May cause skin irritation. May cause allergic skin reaction. May cause serious eye damage.

Indication of Immediate Medical Attention and Special Treatment Needed:

Flush eyes with water if dust gets in eyes. If exposed or concerned, get medical advice and attention. Have emergency eyewash station available in area where terrazzo tiles are cut.

5. FIRE-FIGHTING MEASURES AND INFORMATION

Suitable Extinguishing Media:	ABC fire extinguished
Specific Hazards:	Not applicable
Special Fire Fighting Procedures:	None required
Fire and Explosion Hazards:	None

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures:

Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wash contaminated clothing before reuse. Do not handle until all safety precautions have been read and understood. Use personal protection recommended in Section 8 of this SDS.

Methods and Materials for Containment and Clean Up:

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

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Can cause serious injury to eyes, skin, and respiratory tract or allergic reaction. Repeated inhalation of respirable crystalline silica may cause cancer. When cutting product wear a NIOSH approved respirator. Contains portland cement: avoid contact with skin and eyes. Wash contaminated clothing before reuse. If swallowed, inhaled, or skin irritation occurs get medical attention. If on skin: wash with plenty of water. If in eyes: rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing.

Conditions for Safe Storage, Including Incompatibilities:

Do not store near acids. If terrazzo 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	OSHA AL	NIOSH REL	ACGIH TLV
Crystalline silica as quartz	50 $\mu g/m^3$	25 $\mu g/m^3$	0.05 mg/m^3	0.025 mg/m^3
Portland Cement				
-Respirable Fraction	5 mg/m^3	N.E.	5 mg/m^3	1 mg/m^3
-Total Dust	15 mg/m^3	N.E.	10 mg/m^3	N.E.

Limestone				
-Respirable Fraction	5 mg/m^3	N.E.	5 mg/m^3	N.E.
-Total Dust	15 mg/m^3	N.E.	10 mg/m^3	N.E.
Magnesium Carbonate				
-Respirable Fraction	5 mg/m^3	N.E.	5 mg/m^3	N.E.
-Total Dust	15 mg/m^3	N.E.	10 mg/m^3	N.E.
Vinyl Acetate	N.E.	N.E.	4* ppm	10 ppm

Based on an 8hr TWA or Time Weighted Average
N.E. – Not Established
*Noted as NIOSH REL-C (ceiling)

8.2 ENGINEERING CONTROLS/PERSONAL PROTECTION

Ventilation: Use adequate ventilation to keep exposure to dust below recommended exposure levels. Avoid inhalation of dust. Wet cutting methods and exposure control methods set forth in OSHA Table 1 of 29 CFR § 1926.1153 are recommended.

Respiratory Protection: Use of a properly fitted NIOSH/MSHA approved particulate respirator, such as a half-facepiece particulate respirator with N95 filters or a 95-rated filter efficiency, is recommended when cutting tiles for installation.

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: Suitable protective gloves, long-sleeved shirts, and long pants 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. Wash contaminated clothing before resuse.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brittle solid; color may vary
Odor:	Odorless
Odor Threshold:	Not applicable
pH:	Not applicable
Melting Point:	3110°F
Freezing Point:	Not applicable
Boiling Point:	4046°F
Flash Point:	Not applicable

Evaporation Rate (Ethyl; Ether = 1):	Not applicable
Flammability:	Not applicable
Upper/Lower Flammability Limits:	Not applicable
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Relative Density:	Not applicable
Solubility in Water:	Insoluble
Partition Coefficient: n-octanol/water:	Not applicable
Auto-ignition Temperature:	Not applicable
Decomposition Temperature:	Not applicable
Viscosity:	Not applicable

10. STABILITY AND REACTIVITY

Reactivity:	Not available
Chemical Stability:	Stable in in normal conditions and storage conditions
Possibility of Hazardous Reactions:	Not available
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:	Avoid contact with acids (e.g., acetic, hydrofluoric, etc.)

11. TOXICOLOGICAL INFORMATION

Potential Health Effects

Primary Routes of Exposure

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

Acute Effects *Crystalline Silica*

No acute effects from exposure to intact terrazzo tile are known. 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 in excess of established permissible occupational exposure limits and/or failure to follow product use instructions or regulatory standards. Signs such as labored breathing and early fatigue may indicate silicosis; however, these same symptoms can arise from many other causes. Working with broken or cut terrazzo tile produces a potential for cuts to the hands and exposed body parts.

Chronic Effects *Crystalline Silica*

No chronic effects are known for exposure to intact terrazzi tile. Long-term, continual exposure to respirable crystalline silica in excess of established permissible occupational exposure limits and/or failure to follow product use instructions or regulatory standards may lead to the development of silicosis, a nodular pulmonary fibrosis (NPF). NPFs are also associated with pulmonary tuberculosis, bronchitis, emphysema, COPD 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. Signs such as labored breathing and early fatigue may indicate silicosis; however, these same symptoms can arise from many other causes.

Potential Adverse Interactions

Silicosis may be complicated by severe mycobacterial or fungal infections and result in tuberculosis (TB). Silicosis is a risk factor for developing TB. Any existing respiratory or pulmonary diseases may be complicated by exposure

to an excess of respirable crystalline silica. Smoking may increase the risk of adverse effects if done in conjunction with occupational exposure to silica dust in excess of permissible exposure limits.

Carcinogen Status
Respirable crystalline silica is classified by the International Agency for Research on Cancer (IARC) 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 lists crystalline silica in the OSHA Hazard Communication Carcinogen list.

Acute Toxicity
Not available.

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

D.O.T. Shipping Name:	Not applicable
Hazard Class:	Non-regulated (for disposal purposes material is non-hazardous Class III regulated material)
ID Number:	Not applicable
Marking:	Not applicable
Label:	None
Placard:	None
Hazardous Substance/RQ:	Not applicable
Shipping Description:	Terrazzo Tiles
Packaging References:	None

15. REGULATORY INFORMATION

This product's components have been previously introduced into U.S. commerce and are either listed on or exempted from the Toxic Substances Control Act (TSCA) Inventory of Chemicals in Commerce.

Title 22, Division 2, California Code of Regulations Chapter 3 (Proposition 65): This product contains crystalline silica known to the State of California to cause cancer.

Title 8, Division 1, California Code of Regulations Chapter 4, Section 5204 (Cal-OSHA Standard for Crystalline Silica): This product contains more than 0.1% crystalline silica. When performing a "high-exposure trigger task," follow Cal-OSHA's standard for crystalline silica. "High-exposure trigger task" includes machining, crushing, cutting, drilling, abrading, abrasive blasting, grinding, chiseling, carving, gouging, polishing, buffing, fracturing, intentional breaking, or intentional chipping of terrazzo for the fabrication of countertops, backsplashes, walls, flooring, waterfall countertop edges, and other terrazzo products, as well as clean up, disturbing, or handling of

wastes, dusts, residues, debris, or other materials created during the above-listed tasks. Do not dry cut. Use one of the following wet cutting methods: (1) applying a constant, continuous, and appropriate volume of running water directly onto the surface of the stone; (2) submersing the stone underwater; or (3) water jet cutting using high pressure water to cut the stone. If using method (1) and recycling water, filter the water to remove silica prior to reuse. Wear a full face, tight-fitting powered-air purifying respirator (PAPR), a helmet or hood PAPR with an Assigned Protection Factor (APF) of 1000, or another respirator providing equal or greater protection (APF 1000 or greater) equipped with a HEPA, N100, R100, or P100 filter. Use wet clean up methods or vacuum cleaners equipped with a HEPA filter. Do not use compressed air on waste, dust, debris, residue, or other materials that may contain crystalline silica or on any surface or clothing or body surface that may contain crystalline silica.

Other State Regulations: Crystalline silica is listed as “hazardous” or “toxic” on state right to know laws including, but not limited to, Massachusetts, New Jersey, and Pennsylvania.

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 Liquid	___Flammable Aerosol	___Oxidizer
___Compressed Gas	___Explosive	___Pyrophoric
___Flammable Gas	_X_ Health Hazard (Sections 3 & 11)	___Unstable
___Flammable Liquid	___Organic Peroxide	___Water Reactive
___Flammable Solid		

___Based on information presently available, this product does not meet any of the hazard definitions of 29 CFR Section 1910.1200.

Note: The information in this data sheet provides information related to the potential hazards associated with dusts which may be produced during cutting or otherwise changing the shape of the tile during installation.

16. ADDITIONAL INFORMATION

Date of preparation: November 2024