

Date of Preparation: November 2024

SAFETY DATA SHEET METAL MOSAIC TILE PRODUCTS

1. PRODUCT IDENTIFICATION

Product Name: Metal, Mosaic products distributed by Jeffrey Court, Inc. These mosaics may incorporate natural stone (marble and limestone) or glass as well.

Synonyms: Metal

Recommended Use: Flooring and Wall Application

Manufacturer Name: Jeffrey Court, Inc.

Address: 620 Parkridge Avenue
Norco, CA 92860

Telephone: (951) 340-3383

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

Metal Mosaic products consist of stainless steel metal pieces, and may also incorporate natural stone (marble and limestone) or glass. The finished Metal Mosaic products 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 product during installation. Do not cut or drill metal trim pieces. If metal trim pieces are cut or drilled, wear a respirator and wash hands thoroughly after cutting and drilling operations are conducted.

Classification of the Chemical (Crystalline Silica) 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)

GHS Label, Hazards and Precautionary Statements

GHS Hazard Pictogram:  Category 3 (Respiratory tract irritation) (H335)

 Category 1A (Carcinogenicity) (H372)

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)

Date of Preparation: November 2024

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)

Unknown Acute Toxicity:

Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Metal Mosaic products consist of stainless steel metal pieces and may also include marble, limestone, or glass in various shapes, sizes, and colors.

Composition*	CAS#	Estimated % by Wt.
1. Marble		
Crystalline Silica (Quartz)	CAS: 14808-60-7	<1-25%
Limestone	CAS: 1317-65-3	38-42%
Magnesium Carbonate	CAS: 546-93-0	30-32%
Aluminum Oxide	CAS: 1344-28-1	2-4%
Sodium Oxide	CAS: 1313-59-3	<2%
Magnesium Oxide	CAS: 1309-48-4	<2%
2. Limestone		
Crystalline Silica (Quartz)	CAS: 14808-60-7	<1-40%
Calcium Carbonate	CAS: 1317-65-3	>50%
Feldspar	CAS: 68476-25-5	<2%
Biotite/Muscovite	CAS: 12001-26-2	<1%
Iron Oxide	CAS: 1345-25-1	<1%
3. Glass		
Crystalline Silica as Quartz	CAS: 14808-60-7	0 – 0.79%
Amorphous Silica	CAS: 7631-86-9	60 – 75%
Sodium Oxide	CAS: 1313-59-3	12 – 18%
Calcium Oxide	CAS: 1305-78-8	5 – 12%
Aluminum Oxide	CAS: 1344-28-1	<3%
Magnesium Oxide	CAS: 1309-48-4	<3%
4. Metal Trim		
Chromium	CAS: 7440-47-3	<1-18%
Nickel	CAS: 7440-02-0	<1-8%

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.



Date of Preparation: November 2024

- Skin: Wash thoroughly after working with metal mosaic products.
- 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 metal mosaic products.

Most Important Symptoms/Effects, Acute and Delayed:
May cause respiratory irritation. May cause cancer. May cause damage to lungs through prolonged or repeated exposure.

Indication of Immediate Medical Attention and Special Treatment Needed:
If exposed or concerned, get medical advice and attention. Have emergency eyewash station available in area where products 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. 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:
Silica dust can be harmful if inhaled. Exposure to silica dust from cutting, grinding, or polishing can cause acute lung injury, silicosis, or cancer. Wear a respirator when cutting, grinding, or polishing. Use wet cutting methods and do not dry cut. When cutting, perform cutting in a well-ventilated area. Do not cut or drill metal trim pieces. If metal trim pieces are cut or drilled, wear a respirator and wash hands thoroughly after cutting and drilling operations are conducted.

Conditions for Safe Storage, Including Incompatibilities:
Do not store near acids. If metal mosaic products 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
1. Marble				
Crystalline silica as quartz	50 µg/m ³	25 µg/m ³	0.05 mg/m ³	0.025 mg/m ³

Date of Preparation: November 2024

Limestone

-Respirable Fraction	5	N.E.	5	N.E.
	mg/m ³		mg/m ³	
-Total Dust	15	N.E.	10	N.E.
	mg/m ³		mg/m ³	
Magnesium Carbonate				
-Respirable Fraction	5	N.E.	5	N.E.
	mg/m ³		mg/m ³	
-Total Dust	15	N.E.	10	N.E.
	mg/m ³		mg/m ³	
Aluminum Oxide				
-Respirable Fraction	5	N.E.	N.E.	1
	mg/m ³			mg/m ³
-Total Dust**	15	N.E.	N.E.	N.E.
	mg/m ³			
Sodium Oxide				
-Respirable Fraction**	5	N.E.	N.E.	N.E.
	mg/m ³			
-Total Dust**	15	N.E.	N.E.	N.E.
	mg/m ³			
Magnesium Oxide				
	15	N.E.	N.E.	10
	mg/m ³			mg/m ³

2. Limestone

Crystalline silica as quartz	50	25	0.05	0.025
	μg/m ³	μg/m ³	mg/m ³	mg/m ³
Calcium Carbonate				
-Respirable Fraction	5	N.E.	5	N.E.
	mg/m ³		mg/m ³	
-Total Dust	15	N.E.	10	N.E.
	mg/m ³		mg/m ³	
Feldspar				
-Respirable Fraction**	5	N.E.	N.E.	N.E.
	mg/m ³			
-Total Dust**	15	N.E.	N.E.	N.E.
	mg/m ³			
Biotite/Muscovite				
-Respirable Fraction	20	N.E.	3	3
	mppcf*		mg/m ³	mg/m ³
-Total Dust**	15	N.E.	N.E.	N.E.
	mg/m ³			
Iron Oxide				
-Respirable fraction	10	N.E.	5	5
	mg/m ³		mg/m ³	mg/m ³

3. Glass

Crystalline silica as quartz	50	25	0.05	0.025
	μg/m ³	μg/m ³	mg/m ³	mg/m ³

Date of Preparation: November 2024

Amorphous Silica	20 mppcf*	N.E.	6 mg/m ³	N.E.
Sodium Oxide -Respirable Fraction**	5 mg/m ³	N.E.	N.E.	N.E.
-Total Dust**	15 mg/m ³	N.E.	N.E.	N.E.
Calcium Oxide	5 mg/m ³	N.E.	2 mg/m ³	N.E.
Aluminum Oxide -Respirable Fraction**	5 mg/m ³	N.E.	N.E.	1 mg/m ³
-Total Dust**	15 mg/m ³	N.E.	N.E.	N.E.
Magnesium Oxide	15 mg/m ³	N.E.	N.E.	10 mg/m ³
4. Meta Trim				
Chromium	0.5 mg/m ³	N.E.	0.5 mg/m ³	0.003 mg/m ³
Nickel	1 mg/m ³	N.E.	0.015 mg/m ³	0.2*** mg/m ³

** Covered as particles not otherwise regulated per OSHA and particles not otherwise specified per ACGIH.

N.E.- Not established

Based on an 8hr TWA or Time Weighted Average

*Millions of particles per cubic foot of air, based on impinger samples counted by light-field techniques

*** As insoluble inorganic compounds (inhalable particulate matter)

8.2 ENGINEERING CONTROLS/PERSONAL PROTECTION

Ventilation: Use adequate ventilation 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. 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 metal mosaic products for installation. Do not cut or drill metal trim pieces. If metal trim pieces are cut or drilled, wear a respirator and wash hands thoroughly after cutting and drilling operations are conducted.

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.

Date of Preparation: November 2024

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 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 metal mosaic products. Inhalation and potential exposure to eyes, hands, or other body parts if contact is made with broken product, and/or during procedures involving the cutting of metal mosaic products.

Acute Effects *Crystalline Silica*

No acute effects from exposure to intact metal mosaic products 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



Date of Preparation: November 2024

causes. Working with broken or cut metal mosaic 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.

Chronic Effects *Crystalline Silica*

No chronic effects are known for exposure to intact metal mosaic products. 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 also 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 at or above 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:	Metal, Mosaic products
Packaging References:	None



Date of Preparation: November 2024

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 10% 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 natural stone for the fabrication of countertops, backsplashes, walls, flooring, waterfall countertop edges, and other products from natural stone slabs or panels, 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 cleanup 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):

- | | | |
|---|---|---|
| <input type="checkbox"/> Combustible Liquid | <input type="checkbox"/> Flammable Aerosol | <input type="checkbox"/> Oxidizer |
| <input type="checkbox"/> Compressed Gas | <input type="checkbox"/> Explosive | <input type="checkbox"/> Pyrophoric |
| <input type="checkbox"/> Flammable Gas | <input checked="" type="checkbox"/> Health Hazard (Sections 3 & 11) | <input type="checkbox"/> Unstable |
| <input type="checkbox"/> Flammable Liquid | <input type="checkbox"/> Organic Peroxide | <input type="checkbox"/> Water Reactive |
| <input type="checkbox"/> 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, grinding, or polishing metal mosaic products or otherwise changing the shape of the product.

16. ADDITIONAL INFORMATION

Date of Preparation: November 2024