

## SAFETY DATA SHEET

### QUARTZ (engineered stone)

#### 1. PRODUCT IDENTIFICATION

Product Name: Quartz (engineered stone) products distributed by Bedrosians Tile & Stone  
Synonyms: Quartz  
Recommended Use: Countertop, Flooring, and Wall Application  
Manufacturer Name: Bedrosians Tile & Stone  
Address: 1123 Warner Avenue  
Tustin, CA 92780  
Telephone: (559) 275-5000

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

Quartz (engineered stone) products are not hazardous as shipped. The 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.

#### 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 respiratory irritation (H335)

Causes damage to organs (lung/respiratory) through prolonged or repeated exposure (inhalation) (H372)

GHS Precautionary Statements:

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

Obtain, read and follow all safety instructions before use. (P203)

Do not breathe dust/spray. (P260 + P261)

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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

Quartz (engineered stone) products have been fabricated into various shapes, sizes, and colors.

Composition	CAS#	Estimated % by Wt.
Crystalline Silica Sand (Quartz)	CAS: 14808-60-7	>80%
Resin (styrene)	CAS: 100-42-5	11 – 20%

### 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.  
Skin: Wash thoroughly after working with quartz products.  
Inhalation: Remove to fresh air if exposed to large amounts of dust. Administer artificial respiration if breathing has stopped. Keep victim at rest. Call for prompt medical attention.  
Ingestion: Not applicable for intact quartz (engineered stone) products.

Most Important Symptoms/Effects, Acute and Delayed:

May cause respiratory irritation. May cause cancer. Causes damage to organs 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

Quartz is not flammable, combustible, or explosive.

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:

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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.

Conditions for Safe Storage, Including Incompatibilities:

Do not store near acids. If quartz 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	NIOSH REL	ACGIH TLV
Crystalline silica as quartz	50 $\mu\text{g}/\text{m}^3$	0.05 $\text{mg}/\text{m}^3$	0.025 $\text{mg}/\text{m}^3$

\*Based on an 8hr TWA or Time Weighted Average

**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 Table 1 of 29 CFR § 1926.1153 are recommended.

Respiratory Protection: Use of a properly fitted NIOSH/MSHA approved particulate respirator is recommended when cutting quartz products 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: 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.

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**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:	Multi-colored engineered stone
Odor:	Odorless
Odor Threshold:	Not applicable
pH:	Not applicable
Melting Point:	3110°F
Freezing Point:	Not applicable
Boiling Point:	4046°F
Flash Point:	490°C
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 quartz 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 products.

#### **Acute Effects *Crystalline Silica***

No acute effects from exposure to intact quartz are known. Working with broken or cut quartz 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. 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

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to extremely dusty environments caused by generation of product dust. Signs such as labored breathing and early fatigue may indicate silicosis; however, these same symptoms can arise from many other causes.

### **Chronic Effects** *Crystalline Silica*

No chronic effects are known for exposure to intact quartz products. Long-term, continual exposure to respirable 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. Workers exposed to elevated silica concentrations may have a significant risk of developing chronic silicosis. 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 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 (9<sup>th</sup> 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:	Quartz products
Packaging References:	None



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**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 Emergency Temporary Standard for Silica): This product contains more than 0.1% crystalline silica. When performing a “high-exposure trigger task,” follow Cal-OSHA's emergency temporary standard for 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 artificial stone as well as clean up, distributing, 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. Wear a full face, tight-fitting powered-air purifying respirator or a respirator providing equal or greater protection equipped with a HEPA, N100, R100, or P100 filter and organic vapor cartridge. 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):

- |   |   |   |
|---|---|---|
| <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 or otherwise changing the shape of the product during installation.

**16. ADDITIONAL INFORMATION**

Global Harmonization Identification System

GHIS: 0      Health: 3      Fire: 4      Reactivity: 4

Hazardous Material Identification System

HMIS:      Health:      Fire:      Reactivity:

National Fire Protection Association

NFPA:      Health:      Fire:      Reactivity:

\_\_\_\_\_  
Customer Signature

\_\_\_\_/\_\_\_\_/\_\_\_\_  
Date

\_\_\_\_\_  
Print Name