

# SAFETY DATA SHEET

## PRODUCT SERIES: ONE QUARTZ™ COLLECTION

### 1. PRODUCT IDENTIFICATION

**Common Name:** Slab  
**Synonyms:** Slab and Wares  
**Manufacturer Name:** Dal-Tile Corporation  
 Headquarters Office  
 7834 C.F. Hawn Freeway, Dallas, TX 75217  
**Address:** Environmental, Health and Safety Department  
 Richard Ray - (214) 309-4295  
**Recommended Use:** Building Material - Slab products manufactured by Dal-Tile Corporation are environmentally preferable building materials when compared to some other products. As defined by guidelines issued by the Environmental Protection Agency, the American Society for Testing & Materials, and the Federal Trade Commission, Slabs are one of the most environmentally friendly building materials you can buy today. 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

Slab products are mixtures of silica, natural occurring minerals, and resin that have been mixed and cured at low temperature. Respiratory, hand and eye protection may be needed to prevent excess exposure to airborne particulates if dust is produced by cutting Slabs during installation or if dust is produced by any other operations, including fabrication, demolition/removal 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)

## 2. HAZARDS IDENTIFICATION (CONT.)

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)

### Precautionary Statements:

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

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

Wash skin thoroughly after handling/installing. (P264)

Do not eat, drink or smoke when handling/installing this product. (P270)

Wear protective gloves, protective clothing, eye protection, face protection when handling/installing this product. (P280)

### Potential Health Effects:

Inhalation: Do not breathe dust. See "Health Hazards" in Section 11 for more details.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Slab products are made of silica, other naturally-occurring minerals, and resin that have been mixed and cured at low temperatures.

Slabs are manufactured in various shapes, sizes, and colors.

These products do not contain asbestos.

Under normal conditions these products do not release hazardous materials after installation and are not considered hazardous waste should disposal be necessary.

Composition	CAS# / EINECS#	Estimated % by Wt.	EU Class
Crystalline silica	CAS: 7631-86-9 / EINECS: 238-878-4	46-52	(67/548/EEC) Xn R48/20

## 4. 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 slab dust.

Inhalation: Remove to fresh air if exposed to large amounts of Slab dust. Administer artificial respiration if breathing has stopped. Keep victim at rest. Call for prompt medical attention.

Ingestion: Not applicable for intact Slabs.

Have emergency eyewash station available in area where Slabs are cut.

## 5. COMPOSITION/INFORMATION ON INGREDIENTS

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: ABC Extinguisher

Special Fire Fighting Procedures: None required

Fire and Explosion Hazards: None

Flame Spread: Class 1

## 6. ACCIDENTAL RELEASE MEASURES

Avoid creating excessive slab dust. Clean up dust using 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 Slabs 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				
- respirable fraction	0.05	0.05	0.025	mg/m <sup>3</sup>
- total dust**	15	N.E.	N.E.	mg/m <sup>3</sup>

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

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

N.D. - Not determined

N.E. - Not established

### 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 tiles for installation or during the removal of installed tile.

**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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brittle solid; color may vary
Odor:	Odorless
Melting Point:	Not available (>1000 °F)
Boiling Point:	Not applicable
Vapor Pressure:	Not applicable
Vapor Density (Air=1):	Not applicable
Solubility in Water:	Insoluble
Specific Gravity (H <sub>2</sub> O =1):	1.6 to 2.1
Percent Volatile by Volume:	Not applicable
Evaporation Rate (Ethyl Ether =1):	Not applicable
Viscosity:	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 tile, and/or during procedures involving the cutting of products, and/or for operations involving the removal of installed products.

**Acute Effects:** No acute effects from exposure to intact tile are known. Working with broken or cut natural stone 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 or during the removal of installed product. 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 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 (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 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. DISPOSABLE 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: Porcelain/Ceramic Tiles  
Packaging References: None  
Not regulated for transportation under the IATA/ICAO, IMDG, EU ADR, or Canadian TDG Regulations.

## 15. REGULATORY INFORMATION

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 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):  **WARNING** - This product can expose you to chemicals known to the State of California to cause cancer, including crystalline silica (airborne particles of respirable size) in dust created if the product is dry cut/ground/polished or pulverized during fabrication/installation/removal. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

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 and/or removal.

## 16. ADDITIONAL INFORMATION

Global Harmonization Identification System

GHIS: Health: 3 Fire: 4 Reactivity: 4

Hazardous Material Identification System

HMIS: Health: 0 Fire: 0 Reactivity: 0

National Fire Protection Association

NFPA: Health: 0 Fire: 0 Reactivity: 0

SDS Preparation Date 8/29/18 Revised 09/24/19