STONE SOURCE Safety Data Sheet

Section 1 – Identification

SUPPLIER:	**STONE SOURCE** stonesource.com	**NOTE:** This document has been prepared in accordance with the Occupational Safety and Health Administration (OSHA) Hazard Communicationstandard, 29 Code of Federal Regulations (CFR) 1910.1200(g), Safety Data Sheets.
ADDRESS:	215 Park Avenue South New York, NY **10003**	**Emergency Telephone Number (CHEMTREC)** **(800) 424-9300** Telephone Number for Information (212) 979-6400
TELEPHONE:	**212-979-6400**	Recommended use of the product: 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),
Product Identifier (as used on Label, SDS and list) **Engineered Stone Tile /Slabs** Other means of identification: **Agglomerated Stone Tile/Slabs**		**NOTE:** Safety Data Sheets. For purposes of this Safety Data Sheet, the term "Quartz" and/or "Engineered Stone" and/or "Agglomerated Stone" encompasses all types of composite material made of crushed stone bound together by an adhesive.

Section 2 – Hazard Identification

Quartz products are mixtures of Natural Quartz, Resins and other naturally occurring minerals. The finished, Quartz products are odorless, stable, non-flammable, and pose no immediate hazard to health. Fabrication and processing of engineered stone, (i.e. cutting, sawing, grinding, breaking, crushing, drilling, sanding or sculpting) will generate dust that can expose you to crystalline silica (quartz). Unprotected and uncontrolled exposure to such dust is dangerous to health and can cause severe illness such a silicosis, lung cancer, fibrosis of the lungs, tuberculosis, kidney disease, abrasions of the cornea and irritation of the skin and eyes. Quartz products are not hazardous as shipped and used by the end user.

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
Category 3 (Respiratory tract irritation) (H335) Categories 1A(Carcinogenicity)(H372)
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)

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.

Section 3 – Composition/Ingredients

Composition	Cas#	Estimated % by Wt.
Crystalline silica as quartz	CAS: 14808-60-7	>90%
Titanium Dioxide	CAS: 13463-67-7	0-10%
Cristobalite	CAS: 14464-46-1	0-10%
Other Natural Stone / Minerals[2]	N/A	0-10%
Polyester Resins	Mixture	0-10%

The presence and percentage will vary depending on specific product model. Under normal conditions these products do not release hazardous materials after installation and are not considered hazardous waste should disposal be necessary.
2 Inorganic Minerals including but not limited to: Feldspar, Iron Oxide, Aluminum Oxide, Glass, Mirror, and others.

Quartz products are composed of Quartz, Polyester Resins and other naturally-occurring minerals and are fabricated into various shapes, sizes. 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.

Section 4 – First Aid Measures

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

SKIN CONTACT: Wash thoroughly after working with Engineered Stone products.

EYE CONTACT: Immediately flush eyes with large amounts of water for at least 15 minutes if dust gets in eyes. Get medical attention if irritation pressists.

INGESTION: Not applicable for intact engineered stone products. Have emergency eyewash station available in area where products are cut.

Section 5 – Fire-fighting Measures

Quartz products can be combusted only with difficulty. Decomposition products resulting from the polymer and pigments degrading at elevated temperatures include various hydrocarbons, carbon dioxide, carbon monoxide and water. Fumes of metal oxides and mica particles could also be released.

Flash Point (Method Used):	490^0 C
Autoignition Temperature:	Not applicable
Flammable Limits (% by Volume in Air):	LEL - not applicable
Flammable Limits (% by Volume in Air):	UEL - not applicable
Fire Extinguishing Media:	Water, Dry Chemical, CO_2, Foam
Special Fire Fighting Procedures:	None required
Fire and Explosion Hazards:	None

Section 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.

Section 7 – Handling and Storage

When cutting, grinding or removing, use equipment with integral dust collection and/or use local exhaust ventilation. Use wet cutting methods to reduce generation of dust. Use respiratory protection in the absence of effective engineering controls.
Do not store near acids. Shelf life is unlimited

Section 8 – Exposure 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 or during removal of installed engineered stone. Wet cutting methods are recommended.
Respiratory Protection: Use of a properly fitted NIOSH/MSHA approved particulate respirator is recommended when cutting engineered stone products for installation or during the removal of installed product.
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.

Section 8 – Exposure Controls/Personal Protection

	OSHA PEL	NIOSH IDLH	ACGIH TLV*	Units
Crystalline Silica as Quartz -Respirable Limits 8hr TWA*	10 %SiO2+2	0.05	0.025	mg/m3
-Total Dust TWA*	30 %SiO2+2	N.E.	N.E.	mg/m3
Titanium Dioxide	15	N.E.	N.E.	mg/m3

***OSHA (29 CFR 1910-1000 Table Z-3)**
Abbreviations:
N.E.= Not Established, TWA= Time-Weighted Average, AGCIH=American Conference of Governmental Industrial Hygienists, OSHA= Occupational Safety and Health Administration, NIOSH = National Institute of Occupational Safety and Health

Section 9 – Physical and Chemical Properties

Appearance:	Brittle solid; color will vary
Odor:	Odorless
Melting Point:	Not Available (>1000 ^{0}F)
Boiling Point:	Not applicable
Vapor Pressure:	Not applicable
Vapor Density (Air = 1):	Not applicable
Solubility in Water:	Insoluble
Specific Gravity (H2) = 1):	2.2 – 2.5
Percent Volatile by Volume:	Not applicable
Evaporation Rate (Ethyl Ether = 1):	Not applicable
Viscosity:	Not applicable

Section 10 – Stability and Reactivity

Stability:	Stable in current form
Conditions to Avoid:	Avoid contact with acids (e.g., Hydrochloric, acetic, hydrofluoric, etc.)
Incompatibility (Materials to Avoid):	Avoid contact with acids (e.g., Hydrochloric, acetic, hydrofluoric, etc.)
Hazardous Polymerization:	Will not occur
Hazardous Decomposition Products:	Various Hydrocarbons, Carbon Dioxide, Carbon Monoxide Fumes & Water

Section 11 – Toxicological Information

Primary Routes of Exposure

None for intact engineered stone products. 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 engineered stone products are known. Working with broken or cut engineered 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 engineered stone dust. Signs such as labored breathing and early fatigue may indicate silicosis; however, these same symptoms can arise from many other causes.

CHRONIC EFFECTS: INo chronic effects are known for exposure to intact engineered stone products. 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 (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.

Section 12 – Ecological Information (Non-mandatory)

NO INFORMATION AVAILABLE AT THIS TIME

Section 13 – Disposal Considerations (Non-mandatory)

WASTE DISPOSAL OF SUBSTANCE: Waste should be disposed of by a licensed waste removal/disposal contractor or in a landfill certified to accept such materials in accordance with federal, state, and local regulations. Collected waste on site in the form of dust/particles should not be allowed to enter any waterway, sewer, or stream of any kind.

CONTAINER DISPOSAL: Dispose of in accordance with federal, state and local regulations.

RCRA: None listed

Section 14 – Transport Information (Non-mandatory)

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:	Engineered Stone / Quartz Products
Packaging References:	None

Section 15 – Regulatory Information (Non-mandatory)

SARA 302: None	SARA 311/312 Hazards: Exempt Article per 40 CFR 370.13(b)	* This product may contain constituents listed under SARA (Title III) Section 313, but amounts are below minimum reporting levels per 40 CFR Part 372, Subpart C. *

U.S. CERCLA REPORTABLE QUANTITY (RQ): Not listed as reportable.

U.S. TSCA INVENTORY STATUS: Calcium Oxide CAS# 1305-78-8; Crystalline Silica CAS# 14808-60-7; Aluminum Oxide CAS# 1344-28-1; Iron Oxide CAS# 1309-37-1; Potassium Dioxide CAS# 12030-88-5; Sodium Oxide CAS# 1313-59-3; Chromium CAS# 7440-47-3; and Iron (II,III) Oxide CAS# 1317-61-9 are listed on the TSCA inventory

TSCA SIGNIFICANT NEW USE RULE: None of the chemicals in this mixture have a SNUR under TSCA.

OTHER U.S. FEDERAL REGULATIONS: Not applicable

CLEAN AIR ACT: This material does not contain any hazardous air pollutants
This material does not contain any Class 1 Ozone depletors
This material does not contain any Class 2 Ozone depletors

CLEAN WATER ACT: Chromium CAS# 7440-47-3 is listed as a Toxic Pollutant under the CWA.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): This product contains a chemical, crystalline silica (airborne particles of respirable size), classified as a substance known to the state of California to be a carcinogen.

California No Significant Risk Level: None of the chemicals in this product are listed.

California Inhalation Reference Exposure Level (REL): California established a chronic REL of 3 ug for silica (crystalline, respirable). A chronic REL is an airborne level of a substance at or below which no adverse health effects are anticipated in individuals indefinitely exposed to the substance at that level.

OTHER STATE SPECIFIC REGULATIONS (Right to Know, Toxic Use Reduction Act, Worker and Community, etc.):

Massachusetts: Calcium Oxide, Crystalline Silica, Aluminum Oxide, Diiron Trioxide, Potassium Oxide, Chromium

Pennsylvania: Calcium Oxide, Crystalline Silica, Aluminum Oxide, Diiron Trioxide, Potassium Oxide, Chromium

New Jersey: Calcium Oxide, Crystalline Silica, Aluminum Oxide, Diiron Trioxide, Potassium Oxide, Chromium

* This product may contain trace amounts of: Cadmium CAS# 7440-43-9; Lead CAS# 7439-92-1; Manganese CAS# 7439-96-5; Strontium CAS# 7440-24-6; Zirconium CAS# 7440-67-7; Barium CAS# 7440-39-3; Niobium CAS# 7440-03-1; and Phosphorus Pentoxide CAS# 1314-56-3. All amounts are below the minimum for any reporting requirements. *

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/ LEGISLATIONS SPECIFIC FOR THE CHEMICAL

US: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not Regulated
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not Listed
CERCLA Hazardous Substance List (40 CFR 302.4)	Not Listed

Superfund Amendments and Reauthorization Act of 1986

SARA) Hazard categories

Immediate Hazard - No
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance Not Listed

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting) Not Regulated

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List	Not Regulated
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)	Not Regulated
Safe Drinking Water Act (SDWA)	Not Listed

State Regulations

US State Regulations:
Not regulated.

California Proposition 65: Carcinogens & Reproductive Toxicity (CRT): Listed substance

WARNING: This product contains a chemical known to the State of California to cause cancer. Crystalline Silica (Quartz) (CAS 14808-60-7)

US. Massachusetts RTK - Substance List

Crystalline Silica (Quartz) (CAS 14808-60-7)
Respirable Tridymite and Cristobalite (other forms of crystalline silica) (CAS Mixture)

US. New Jersey Worker and Community Right-to-Know Act

Crystalline Silica (Quartz) (CAS 14808-60-7)
Respirable Tridymite and Cristobalite (other forms of crystalline silica) (CAS Mixture)

US. Pennsylvania Worker and Community Right-to-Know Law

Crystalline Silica (Quartz) (CAS 14808-60-7)
Respirable Tridymite and Cristobalite (other forms of crystalline silica) (CAS Mixture)

US. Rhode Island RTK

Not regulated.

Inventory name	**On inventory (yes/no)***
Toxic Substances Control Act (TSCA) Inventory	Yes

International Inventories

Country(s) or region
United States & Puerto Rico

Section 16 – Other Information

PREPARED BY: **Stone Source LLC** DATE PREPARED: February 20, 2020 LAST UPDATED: February 20, 2020
EMAIL ADDRESS: **info@stonesource.com**

TRAINING NECESSARY:	Yes. Training under the OSHA HazCom GHS requirements (29 CFR 1910.1200) must be completed upon initial assignment for new employees.
INTENDED USE OF THIS PRODUCT:	This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use therof.