



# SCI Tile

## SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	SCI Tile
<b>Other Means of Identification</b>	Clay Fired Ceramic
<b>Other Identification</b>	Semplate, Semtile, Hedtile, Paver
<b>Product Family</b>	Silica brick/Tile
<b>Recommended Use</b>	Used in the construction of corrosion-resistant linings.
<b>Restrictions on Use</b>	None known.
<b>Manufacturer</b>	The Stebbins Engineering and Manufacturing Company, 363 Eastern Boulevard, Watertown, NY, 13601, (315) 782-3000, www.stebbinseng.com
<b>Emergency Phone No.</b>	Chemtrec - Within North America, 1-800-424-9300, 24 hours Stebbins 24 Hour Contact-, 1-315-788-6624
<b>SDS No.</b>	028

## SECTION 2. HAZARD IDENTIFICATION

### Classification

Acute toxicity (Inhalation) - Category 5; Eye irritation - Category 2B; Carcinogenicity - Category 1A; Specific target organ toxicity (single exposure) - Category 3; Specific target organ toxicity (repeated exposure) - Category 2

### Label Elements



Hazards refer to dust generated from product by cutting, sanding, or grinding.

Signal Word:  
Danger

### Hazard Statement(s):

- H320 Causes eye irritation.
- H333 May be harmful if inhaled.
- H335 May cause respiratory irritation.
- H350 May cause cancer if inhaled.
- H373 May cause damage to organs (respiratory system) through prolonged or repeated exposure if inhaled.

### Precautionary Statement(s):

- P260 Do not breathe dust.
- P264 Wash hands thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P304 + P312 IF INHALED: Call a POISON CENTRE or doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents and container in accordance with local, regional, national and international regulations.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Silica, quartz	14808-60-7	> 50	Silicon dioxide	
Aluminum oxide	1344-28-1	< 21	Alumina	
Silica, cristobalite	14464-46-1	trace amounts		
Silica, tridymite	15468-32-3	trace amounts		

#### Notes

Silica in this product is not normally in respirable form. However, cutting and grinding of this brick is expected in the course of normal usage, which will release respirable silica dust. Thus, appropriate precautions must be taken during such operations, and will be noted on this safety data sheet.

### SECTION 4. FIRST-AID MEASURES

#### First-aid Measures

##### Inhalation

Move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

##### Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes.

##### Eye Contact

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice or attention.

##### Ingestion

Give large quantities of water to drink. Get medical advice or attention if you feel unwell or are concerned.

#### Most Important Symptoms and Effects, Acute and Delayed

If inhaled: can irritate the nose and throat.

If inhaled: at high concentrations can cause lung injury.

If in eyes: may cause slight irritation as a "foreign object". Tearing, blinking and mild temporary pain may occur as particles are rinsed from the eye by tears.

#### Immediate Medical Attention and Special Treatment

##### Target Organs

Eyes, respiratory system.

##### Special Instructions

Symptoms of pulmonary edema can be delayed up to 48 hours after exposure.

##### Medical Conditions Aggravated by Exposure

Respiratory conditions, eye conditions.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing Media

##### Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

Product Identifier: SCI Tile - Ver. 5  
Date of Preparation: September 02, 2015  
Date of Last Revision: June 30, 2023

SDS No.: 028

Page 02 of 07

## Specific Hazards Arising from the Product

Does not burn.

Not known to generate any hazardous decomposition products in a fire.

## Special Protective Equipment and Precautions for Fire-fighters

No special precautions are necessary.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

If dust is generated, avoid breathing dust. Keep dust to a minimum.

### Environmental Precautions

No special precautions are necessary. It is good practice to prevent releases into the environment.

### Methods and Materials for Containment and Cleaning Up

Avoid generating dust.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

If dust is generated: avoid breathing in this product. Do not get in eyes.

### Conditions for Safe Storage

Store in an area that is: dry.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The limits for Silica are as follows, but as this product is a solid, the silica is only expected to be respirable during cutting, sanding, or grinding operations. If the product is cut, ground, sanded, or otherwise worked in a fashion that generates dust, appropriate PPE should be worn and these limits should be observed.

OSHA PEL: TWA: 30 mg/m<sup>3</sup> / (%SiO<sub>2</sub> + 2) (total dust)

OSHA PEL: TWA: 10 mg/m<sup>3</sup> / (%SiO<sub>2</sub> + 2) (respirable fraction)

ACGIH TLV: TWA: 0.025 mg/m<sup>3</sup> respirable mass

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average. OSHA = US Occupational Safety and Health Administration.

### Appropriate Engineering Controls

Provide eyewash in work area, if contact or splash hazard exists. The hazard potential of this product is relatively low. General ventilation is usually adequate. If dust is generated: use local exhaust ventilation and enclosure, if necessary, to control amount in the air.

### Individual Protection Measures

#### Eye/Face Protection

Wear approved safety glasses.

#### Skin Protection

Not required.

#### Respiratory Protection

If dust is generated: wear a NIOSH approved air-purifying respirator with N100, R100, or P100 filter(s).

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

<b>Appearance</b>	Light yellow - brown. Particle Size: Not applicable
<b>Odour</b>	Odourless
<b>Odour Threshold</b>	Not applicable

Product Identifier: SCI Tile - Ver. 5

SDS No.: 028

Date of Preparation: September 02, 2015

Date of Last Revision: June 30, 2023

Page 03 of 07

<b>pH</b>	Not applicable
<b>Melting Point/Freezing Point</b>	2930 °F (1610 °C) (Silica, quartz) (melting)
<b>Boiling point/Initial boiling point</b>	4046 °F (2230 °C) (Silica, quartz)
<b>Boiling Range</b>	Not applicable
<b>Flash Point</b>	Not applicable
<b>Evaporation Rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Will not burn.
<b>Upper/Lower Flammability or Explosive Limit</b>	Not applicable (upper); Not applicable (lower)
<b>Vapour Pressure</b>	Not applicable
<b>Vapour Density (air = 1)</b>	Not applicable
<b>Relative Density (water = 1)</b>	2.35
<b>Solubility</b>	Insoluble in water; Not applicable (in other liquids)
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	Not applicable
<b>Auto-ignition Temperature</b>	Not applicable
<b>Decomposition Temperature</b>	Not applicable
<b>Viscosity</b>	Not applicable (kinematic); Not applicable (dynamic)
<b>Other Information</b>	
<b>Physical State</b>	Solid

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

None known.

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

None known.

### Conditions to Avoid

Product contains silica. Contact with hydrofluoric acid may degrade product.

### Incompatible Materials

Product contains silica. Contact with hydrofluoric acid may degrade product.

### Hazardous Decomposition Products

None known.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Likely Routes of Exposure

Inhalation.

### Acute Toxicity

#### LC50 (Inhalation)

If this product is cut, ground, or sanded, respirable silica dust will be given off. The acute effects of exposure are most often mild, though coughing or irritation of the nose, eyes, or throat may result in some cases. It is important to note that if exposed to a high concentration of respirable dust, lung injury may result and the symptoms and effects may be delayed.

### Serious Eye Damage/Irritation

If dust is generated by cutting, sanding, or grinding, the dust may be irritating to the eyes.

Product Identifier: SCI Tile - Ver. 5  
 Date of Preparation: September 02, 2015  
 Date of Last Revision: June 30, 2023

SDS No.: 028

Page 04 of 07

### **STOT (Specific Target Organ Toxicity) - Single Exposure**

#### **Inhalation**

If dust is generated by cutting, sanding, or grinding: may cause nose and throat irritation. At high concentrations may cause lung injury.

#### **Skin Absorption**

Not harmful.

#### **Ingestion**

Not harmful.

### **Aspiration Hazard**

Not known to be an aspiration hazard.

### **STOT (Specific Target Organ Toxicity) - Repeated Exposure**

If dust is generated by cutting, sanding, or grinding: if inhaled: may cause irritation of the respiratory system. May cause respiratory tract injury.

### **Respiratory and/or Skin Sensitization**

Not known to be a respiratory sensitizer. Not known to be a skin sensitizer.

### **Carcinogenicity**

If dust is generated by cutting, sanding, or grinding: IARC: Group 1 – Carcinogenic to humans. ACGIH®: A2 – Suspected human carcinogen. NTP: Known human carcinogen.

#### **Key to Abbreviations**

ACGIH® = American Conference of Governmental Industrial Hygienists. IARC = International Agency for Research on Cancer. NTP = National Toxicology Program.

### **Reproductive Toxicity**

#### **Development of Offspring**

Not known to harm the unborn child.

#### **Sexual Function and Fertility**

Not known to cause effects on sexual function or fertility.

#### **Effects on or via Lactation**

Not known to cause effects on or via lactation.

### **Germ Cell Mutagenicity**

Not known to be a mutagen.

## **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

No information was located.

### **Persistence and Degradability**

No information was located.

### **Bioaccumulative Potential**

No information was located.

### **Mobility in Soil**

No information was located.

### **Other Adverse Effects**

There is no information available.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

### **Disposal Methods**

Bury in a licensed landfill according to federal, provincial/state, and local regulations.

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Product Identifier: SCI Tile - Ver. 5  
Date of Preparation: September 02, 2015  
Date of Last Revision: June 30, 2023

SDS No.: 028

Page 05 of 07

## SECTION 14. TRANSPORT INFORMATION

This section is not required by WHMIS 2015. This section is not required by OSHA HCS 2012.  
Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
US DOT		Non-Regulated		
IATA (Air)		Non-Regulated		
IMO (Marine)		Non-Regulated		
Canadian TDG		Non-Regulated		

**Environmental Hazards** Not applicable

**Special Precautions** Not applicable

**Transport in Bulk according to International Maritime Organization Instruments**

Not applicable

## SECTION 15. REGULATORY INFORMATION

**Safety, Health and Environmental Regulations**

**Canada**

**Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)**

All ingredients are listed on the DSL or are not required to be listed.

**CEPA - National Pollutant Release Inventory (NPRI)**

Not specifically listed.

**USA**

**Toxic Substances Control Act (TSCA) Section 8(b)**

All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.

## SECTION 16. OTHER INFORMATION

<b>NFPA Rating</b>	<b>Health - 1</b>	<b>Flammability - 0</b>	<b>Instability - 0</b>
	<b>Based on</b>	Silica, quartz	
<b>SDS Prepared By</b>	B.E.R.		
<b>Phone No.</b>	(315) 782-3000		
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<b>Revision Indicators</b>	Revision 5 reviewed and approved		
<b>Key to Abbreviations</b>	ACGIH® = American Conference of Governmental Industrial Hygienists HSDB® = Hazardous Substances Data Bank IARC = International Agency for Research on Cancer NFPA = National Fire Protection Association NIOSH = National Institute for Occupational Safety and Health NTP = National Toxicology Program OSHA = US Occupational Safety and Health Administration RTECS® = Registry of Toxic Effects of Chemical Substances		
<b>References</b>	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health		

Product Identifier: SCI Tile - Ver. 5

SDS No.: 028

Date of Preparation: September 02, 2015

Date of Last Revision: June 30, 2023

Page 06 of 07

and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS).

**Disclaimer**

NOTE: The information contained herein is, to the best of our knowledge, accurate and reliable. However, no warranty is expressed or implied regarding the accuracy of this information, or the results to be obtained from the use thereof.

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Product Identifier: SCI Tile - Ver. 5  
Date of Preparation: September 02, 2015  
Date of Last Revision: June 30, 2023

SDS No.: 028

Page 07 of 07