



Section 1 – Identification

SUPPLIER:	The Tile Shop	NOTE: Blank spaces are not permitted. If no relevant information is found for any given subheading within a section, the SDS shall clearly indicate that no applicable information is available.
ADDRESS:	14000 Carlson Parkway Plymouth, MN 55441	Emergency Telephone Number (CHEMTREC) (800) 424-9300 Telephone Number for Information (888) 398-6595
TELEPHONE:	888-398-6595	Recommended use of the product: Building material. Floor & wall covering as a finished product. Resistant to fading, most liquids, temperatures, cleaning products and solvents.
Product Identifier (as used on Label, SDS and list) Cement Tile Other means of identification: none		

Section 2 – Hazard Identification

Carcinogenicity 1A	Signal Word:	DANGER
Specific Target Organ Toxicity (Repeated Exposure) 1	Signal Word:	DANGER
Specific Target Organ Toxicity (Single Exposure) 3	Signal Word:	WARNING
Eye Damage/Irritation 2A	Signal Word:	WARNING
Skin Corrosion 2	Signal Word:	WARNING

 	<p>Hazard Statements: May cause cancer. Causes damage to organs (lungs) through prolonged or repeated exposure. May cause respiratory irritation. Causes serious eye irritation. Causes skin irritation.</p>
	<p>Precautionary Statements:</p> <p>PREVENTION: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in well-ventilated area. Do not eat, drink, or smoke while using this product. Avoid breathing dust/particles. Wear protective gloves/clothing/eye protection/face protection. Wash face/hands/skin thoroughly after handling.</p> <p>RESPONSE: If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. If on skin: Wash with plenty of water. Take off contaminated clothing and wash before reuse. If skin irritation occurs, get medical advice/attention. If exposed or concerned, get medical advice/attention. Call a Poison Center if you feel unwell.</p> <p>STORAGE: Store locked up, in a well-ventilated place. Keep container tightly closed.</p> <p>DISPOSAL: Dispose of contents/container in accordance with local/regional/national/international regulations.</p>

Section 3 – Composition/Ingredients

Chemical Name	Common Name and synonyms	CAS No.	Percentage
Calcium Oxide	Quicklime, Burnt Lime	1305-78-8	60-70
Silicon Dioxide	Crystalline Silica, Quartz, Sand	14808-60-7	20-30
Aluminum Oxide	C Powder, S Powder, Alumina	1344-28-1	3-7
Iron Oxide	Ferric Oxide, Hematite	1309-37-1	2-4
Potassium Dioxide	Dipotassium Monoxide, Potash	1310-58-3	<1
Sodium Oxide	Disodium Oxide	1313-59-3	<1
Chromium	Chromium Sesquioxide, Chromia	7440-47-3	<1
Iron (II,III) Oxide	Ferrous Ferric Oxide, Magnetite	1317-61-9	<1

Section 4 – First Aid Measures

INHALATION: Not expected from intact tiles. If dust/particles from cut or broken tiles is inhaled: move victim to fresh air. Place in comfortable breathing position. Get medical attention if breathing becomes difficult at any time.

SKIN CONTACT: If on skin: wash thoroughly with soap and water. If any symptoms or irritation result from exposure, get medical attention.

EYE CONTACT: Not expected from intact tiles. If dust/particles from cut or broken tiles gets in eyes: rinse with water for several minutes. Remove contacts, continue rinsing. If irritation results from exposure, get medical attention.

INGESTION: Not expected from intact tiles. If dust/particles from cut or broken tiles is swallowed, rinse mouth with water. **DO NOT** induce vomiting.

MOST IMPORTANT SYMPTOMS/EFFECTS: Acute: Inhalation of dust/particles can lead to respiratory irritation. Exposure to skin and eyes can cause mild to serious irritation. Drying of skin is also likely. Delayed: Chronic or repeated inhalation of airborne dust/particles from cut or broken tiles can cause Silicosis, Pulmonary Fibrosis, COPD and/or other lung cancers

IMMEDIATE MEDICAL ATTENTION/SPECIAL TREATMENT: Emergency medical attention is not likely however, exposure of dust/particles from product can result in serious eye irritation which may require medical attention. Chronic inhalation of product in dust/particle form may lead to lung disorders requiring medical intervention and treatments.

Section 5 – Fire-fighting Measures

SUITABLE EXTINGUISHING MEDIA: Cement tile does not pose a fire hazard, however normal fires can be extinguished using water mist, CO₂, or Dry Chemical (ABC) extinguishers; use suitable extinguishing agent for surrounding materials.

SPECIAL FIRE-FIGHTING PROCEDURES: Wear self-contained breathing apparatus with full-face mask and fire-fighter protective clothing when fighting fires.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

Cement Tile	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARDS	0

NFPA Rating: Health: 2 Flammability: 0 Reactivity: 0

Section 6 – Accidental Release Measures

PERSONAL PRECAUTIONS: When cutting tile during installation: Wet cutting is highly recommended. Dry cutting will cause excessive particle and dust formation. Avoid inhalation of particles/dust from cut or broken tiles. Avoid contact with skin and eyes. Wash any exposed skin immediately with soap and water.

PROTECTIVE EQUIPMENT: A dust collection system is recommended for all indoor areas. PPE (eye and respiratory protection) is required when exposed to environment containing airborne particles/dust that meet or exceed the PEL. Only use NIOSH approved respirators (Half or Full Face).

EMERGENCY PROCEDURES: None expected

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: For clean-up of excessive amounts of particles/dust, a vacuum system containing a High-Efficiency Particulate (HEPA) filtering system is recommended. User must use respiratory protection as levels of airborne contaminants are likely to exceed PEL's.

Section 7 – Handling and Storage

PRECAUTIONS FOR SAFE HANDLING: Product is fragile. Breaking of tiles can produce potentially harmful airborne contaminants. Padding between hard edges and tile is recommended.

CONDITIONS FOR SAFE STORAGE INCLUDING INCOMPATIBILITIES: Store away from acids.

Section 8 – Exposure Controls/Personal Protection

Component	CAS	OSHA PEL; TWA	ACGIH TLV	NIOSH REL
Calcium Oxide	1305-78-8	5 mg/m ³	2 mg/m ³	2 mg/m ³
Silicon Dioxide	14808-60-7	50mcg/m ³ /8 hour avg	.025 mg/m ³	.05 mg/m ³
Aluminum Oxide	1344-28-1	15 mg/m ³ (T); 5 mg/m ³	1 mg/m ³	Not established
Iron Oxide	1309-37-1	10 mg/m ³	5 mg/m ³	5 mg/m ³
Potassium Dioxide	12030-88-5	Not established	Not established	Not established
Sodium Oxide	1313-59-3	Not established	Not established	Not established
Chromium	7440-47-3	1 mg/m ³	0.5 mg/m ³	0.5 mg/m ³ .
Iron (II,III) Oxide	1317-61-9	10 mg/m ³	5 mg/m ³	5 mg/m ³

APPROPRIATE ENGINEERING CONTROLS: Use sufficient local exhaust ventilation, or other engineering controls to maintain the level of respirable SiO₂ below the OSHA PEL. General ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations such as using indoors in confined non-ventilated room. Use wet cutting methods when available.

PERSONAL PROTECTIVE EQUIPMENT: To avoid exposures in excess of the OSHA PEL, consider wearing air-purifying respirators with HEPA filters or NIOSH-approved dust respirators. Wear proper protective clothing, e.g. long pants and long-sleeved shirts, to avoid contact with product. Use ANSI-approved eye protection and chemical resistant gloves.

RESPIRATORY PROTECTION: If it is not possible to reduce airborne exposure levels to below the OSHA PEL with ventilation, wear a NIOSH-approved air-purifying respirator with HEPA filters or the appropriate NIOSH-approved respirator.

EYE/FACE PROTECTION: Under normal conditions, wear safety goggles that meet the ANSI Z87.1 standard.

HAND PROTECTION: Cotton or leather gloves should be worn to avoid contact with skin. Wash hands before and after using/handling product.

PROTECTIVE CLOTHING: Wear long pants and long-sleeved shirts while working with this material.

Section 9 – Physical and Chemical Properties

APPEARANCE: Solid (various colors)	ODOR: None, odorless
pH: N/A	MELTING PT/FREEZING PT: N/A
INITIAL BOILING POINT: N/A	FLASH POINT: N/A
FLAMMABILITY: N/A	EVAPORATION RATE: N/A
VAPOR DENSITY: N/A	RELATIVE DENSITY: 2.4-3.1
VAPOR PRESSURE: N/A	%VOLATILE BY VOLUME: None
PARTITION COEFFICIENT: n-OCTANOL/WATER: N/A	VISCOSITY: N/A
AUTOIGNITION TEMPERATURE: N/A	SOLUBILITY IN WATER: Insoluble

Section 10 – Stability and Reactivity

REACTIVITY: None
CHEMICAL STABILITY: Product is completely stable in its current form.
POSSIBILITY OF HAZARDOUS REACTIONS: None known from normal storage and use.
CONDITIONS TO AVOID: Avoid exposing product to acids.
INCOMPATIBLE MATERIALS: Avoid exposing product to acids, oxidizers, and ammonium salts.
HAZARDOUS DECOMPOSITION PRODUCTS: If stored and handled properly, none known.

Section 11 – Toxicological Information

Routes of Entry (only from cut or broken tile): Inhalation: YES Ingestion: YES Eye: YES Skin: YES

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS: Eyes and skin can become irritated from contact with product. Eyes may develop redness, itch, burn, and/or watering. Skin may become excessively dry, crack, redness, and/or rash resulting in itching. Lung/respiratory tract irritation, and/or difficulty breathing can result from being exposed to airborne dust/particles caused from cut or broken tiles. Lung disorders such as Silicosis, Pulmonary Fibrosis, COPD, and other lung disorders can result from repeated inhalation of airborne dust/particles exceeding the OSHA PEL. These conditions can result in constant difficulty breathing as well as worsening of other health issues.

IMMEDIATE EFFECTS: Redness, pain, itching, and swelling of eyes and surrounding skin. Dryness, itching, and redness to skin. Difficulty in breathing, coughing, and airway irritation.

CHRONIC EFFECTS: Inhalation of airborne dust/particles multiple times can cause delayed health effects. Possible conditions are: Silicosis, Pulmonary Fibrosis, COPD, Cancer of the lungs, and worsening of kidney, heart, and other organ conditions.

Cancer. The International Agency for Research on Cancer (IARC) concluded that there was “*sufficient evidence*” in humans for the carcinogenicity of crystalline silica in the forms of quartz or cristobalite from occupational sources. The overall IARC evaluation was that “crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is *carcinogenic to humans (Group 1)*”. The IARC evaluation noted that carcinogenicity was not detected in all industrial circumstances. The National Toxicology Program (NTP) classifies respirable crystalline silica as Known to be a Human Carcinogen.

CARCINOGENICITY:	NTP: Known to be Human Carcinogen	IARC: Group I	OSHA: Potential
LD50/LC50: None	Mutagenicity: None	Neurotoxicity: None	Reproductive Effects: None

Section 12 – Ecological Information (Non-mandatory)

ECOTOXICITY: None known	BIOACCUMULATIVE POTENTIAL: None Known	OTHER ADVERSE EFFECTS (such as hazardous to the ozone layer): None known
PERSISTENCE AND DEGRADABILITY: None known	MOBILITY IN SOIL: No test data available.	

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)

DOT, IATA, IMO/IMDG SHIPPING INFORMATION

UN Identification Number: Not applicable	Proper Shipping Name: Not applicable
Hazard Class: Not applicable	Secondary Risk: Not applicable
Packing Group: Not applicable	Label(s) Required: Not applicable
Environmental Hazards: None	Transport in Bulk: None (per Annex II of MARPOL 73/78 and IBC)

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. *		

Section 16 – Other Information

PREPARED BY: D. Petruso	DATE PREPARED: June 1, 2016	LAST UPDATED: December 1, 2016
EMAIL ADDRESS: Cleavengercompliance.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 thereof.	

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