



STONE

Safety Data Sheet

Revision Date: 02/13/2017

Section 1: Identification

Product Names:

**Ardmore
Biltmore
Bridgeport Rounds®
Bridgeport Splits®
Bunker Hill®
Burlington
Fox Creek
Garret Hill®
Gulph Mills®
Haverford®
Irish Manor®
Malvern
Mount Vernon®
Paoli®
Pine Crest®
Radnor Chester®
Ridgefield
Rivington®
Saddle Mountain®
Spring Mill
Stanfield Blend®
Tolentine
Wentworth
Bellagio
Cosmopolitan
Wynn**

**Saddle Mountain®
Garret Hill®
Bedminster Gray
Bedminster Buff
Sahara Granite
Imperial Granite**

Common Names/Synonyms: Thin Veneer and Landscape Stone

Recommended Use: Construction Material
Restrictions on Use: No Data

Company: Sam Braen Stone
400-402 Central Avenue
Haledon, New Jersey 07508

Telephone: (973) 835-1419 (Only available during normal business hours.)

Emergency Telephone Number:
(201) 294-4207

Section 2: Hazards Identification

Emergency Overview:

Danger: May cause cancer (may contain silica and/or titanium dioxide). Causes silicosis through prolonged or repeated exposure. Causes serious eye damage. Causes severe skin burns and eye damage. May cause respiratory irritation.

GHS Classification:

Carcinogen, Category 1A
Specific Target Organ Toxicity, Repeated Exposure, Category 1
Eye Damage, Category 1
Skin Corrosion, Category 1A
Specific Target Organ Toxicity, Single Exposure, Category 3

GHS Label Elements:

Pictogram(s):



Signal Word: Danger

Hazard Statement(s):

May cause cancer (may contain silica and/or titanium dioxide).
Causes silicosis through prolonged or repeated exposure.
Causes serious eye damage.
Causes severe skin burns and eye damage.
May cause respiratory irritation.

Precautionary Statement(s):

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Wash thoroughly after handling.

Wear protective gloves, protective clothing, and eye protection/face protection.

Do not breathe dust or fume.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

If on skin (or hair): Take off all contaminated clothing immediately. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Store in a well-ventilated place.

Dispose of contents/container in accordance with all applicable local, state and national regulations.

Section 3: Composition/Information on Ingredients

Chemical Ingredients:	Common Names/Synonyms	CAS Number:	Percent Range:
Stone composition varies naturally, but typically consists of:			
Limestone	Calcium Carbonate, Natural Calcium Carbonate, Calate	1317-65-3	0 – 100%
Sandstone	Not Applicable	Not Applicable	0 – 100%
River Stone	Not Applicable	Not Applicable	0 – 100%
Granite	Not Applicable	Not Applicable	0 – 100%
Quartz	Silica, Crystalline Quartz	14808-60-7	0 – 100%
Fieldstone	Not Applicable	Not Applicable	0 – 100%
Marble	Not Applicable	Not Applicable	0 – 100%
Quartzitic Sandstone	Not Applicable	Not Applicable	0 – 100%
Quartzite	Not Applicable	Not Applicable	0 – 100%
The chemical composition of the stones listed above varies naturally, but typically consists of:			
Calcium Carbonate	Calcium Salt of Carbonic Acid	471-34-1	0 – 100%
Silica, Crystalline Quartz	Quartz	14808-60-7	0 – 100%
Feldspar	Albite, Microcline, Orthoclase, Anorthite	68476-25-5	0 – 60%
Calcium Oxide	Burned Lime, Quicklime, Unslaked Lime	1305-78-8	0 – 45%
Aluminum Oxide	Alumina, Alpha-Aluminum (2:3), Aluminum Trioxide	1344-28-1	0 – 20%
Ferric Oxide/ Ferrous Oxide	Iron Oxide Fume	1309-37-1/ 1345-25-1	0 – 20%
Magnesium Oxide	Magnesia Fume, Maglite, Magox	1309-48-4	0 – 10%
Potassium Oxide	Potash, Potassium Oxidopotassium	12136-45-7	0 – 8%
Sodium Oxide	Disodium Oxide	1313-59-3	0 – 5%
Titanium Dioxide	Titanium Oxide, Anatase, Brookite, Rutile, Titanium Peroxide, Titania	13463-67-7	0 – 5%

Section 4: First Aid Measures

Inhalation: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention if you feel unwell.

Skin Contact: If on skin (or hair): Take off all contaminated clothing immediately. Rinse skin with water/shower. Immediately call a poison center/doctor. Wash contaminated clothing before reuse.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.

Ingestion: If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center/doctor.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media: This material is not flammable. Use extinguishing media compatible with surrounding fire.

Specific Hazards in Case of Fire: Limestone ignites on contact with fluorine. Silica reacts violently with powerful oxidizing agents yielding possible fire and/or explosions. Silica dissolves readily in hydrofluoric acid producing silicon tetrafluoride gas. Material reacts vigorously with acids to form carbon dioxide. Some components of the material may react vigorously with water. Some components of this material may react violently with metals at high temperatures. Combustion products may include carbon oxides or other toxic vapors.

Special Protective Equipment for Fire-Fighters: Wear a NIOSH approved self-contained breathing apparatus and full protective equipment.

Section 6: Accidental Release Measures

Personal Precautions: Ventilate the area. Use personal protective equipment. Do not breathe dust or fume. Wetting of spilled material/dust and/or use of respiratory protective equipment may be necessary. Do not dry sweep spilled material/dust. Wash thoroughly after handling. Take off all contaminated clothing immediately. Wash contaminated clothing before reuse.

Environmental Precautions: Avoid release to the environment. Prevent material from entering streams, drains, or sewers.

Methods for Containment/Cleaning Up: Prevent material from migrating off-site. Ventilate spill area. Wetting of spilled material/dust and/or use of respiratory protective equipment may be necessary. Do not dry sweep spilled material/dust. Contain spill, and pick up.

Section 7: Handling and Storage

Handling: Do not breathe dust or fume. Use only outdoors or in a well-ventilated area. Dust and quartz levels over applicable exposure limits should be reduced by feasible engineering controls, including (but not limited to) wet suppression, ventilation, process enclosure, and enclosed employee work stations. Avoid dust production by cutting under water. Wash thoroughly after handling. Wear protective gloves, protective clothing, eye protection/face protection. In case of inadequate ventilation, wear respiratory protection. Do not eat, drink or smoke when using this product.

Storage: Store in a well-ventilated place. Do not store near food, beverages, or smoking materials.

Section 8: Exposure Controls/Personal Protection

Exposure Limits:

Chemical Ingredients:	CAS Number:	OSHA PEL	NIOSH REL	ACGIH TLV
Limestone	1317-65-3	15 mg/m ³ TWA (Total Dust); 5 mg/m ³ TWA (Respirable Fraction)	10 mg/m ³ TWA (Total Dust); 5 mg/m ³ TWA (Respirable Fraction)	10 mg/m ³ TWA (for Calcium Carbonate)
Calcium Carbonate	471-34-1	15 mg/m ³ TWA (Total Dust); 5 mg/m ³ TWA (Respirable Fraction)	10 mg/m ³ TWA (Total Dust); 5 mg/m ³ TWA (Respirable Fraction)	10 mg/m ³ TWA
Silica, Crystalline Quartz*	14808-60-7	Respirable: [(10 mg/m ³) / (%SiO ₂ + 2)] Total: [(30 mg/m ³) / (%SiO ₂ + 2)]	0.05 mg/m ³ TWA	0.025 mg/m ³ TWA
Silica, Crystalline Quartz**	14808-60-7	Respirable: 50 micrograms/m ³ Total: [(30 mg/m ³) / (%SiO ₂ + 2)]	0.05 mg/m ³ TWA	0.025 mg/m ³ TWA
Feldspar (as Nuisance Dust/Particles Not Otherwise Regulated)	68476-25-5	15 mg/m ³ TWA (Total Dust); 5 mg/m ³ TWA (Respirable Fraction)	10 mg/m ³ TWA (Total Dust); 5 mg/m ³ TWA (Respirable Fraction)	10 mg/m ³ TWA (Inhalable Particles); 3 mg/m ³ TWA (Respirable Particles)
Calcium Oxide	1305-78-8	5 mg/m ³ TWA	2 mg/m ³ TWA	2 mg/m ³ TWA
Aluminum Oxide	1344-28-1	15 mg/m ³ TWA (Total Dust); 5 mg/m ³ TWA (Respirable Fraction)	No Established Limit	1 mg/m ³ TWA (respirable fraction)
Ferric Oxide/ Ferrous Oxide	1309-37-1/ 1345-25-1	10 mg/m ³ TWA	5 mg/m ³ TWA	5 mg/m ³ TWA (respirable fraction)
Magnesium Oxide	1309-48-4	15 mg/m ³ TWA	No Established Limit	10 mg/m ³ TWA (inhalable fraction)
Potassium Oxide	12136-45-7	No Established Limit	No Established Limit	No Established Limit
Sodium Oxide	1313-59-3	No Established Limit	No Established Limit	No Established Limit
Titanium Dioxide	13463-67-7	15 mg/m ³ TWA	5,000 mg/m ³ IDLH	10 mg/m ³ TWA

* Before compliance with OSHA's Final Rule on Occupational Exposure to Respirable Crystalline Silica is required (i.e. before June 23, 2017 for construction; and before June 23, 2018 for general industry and maritime).

* After compliance with OSHA's Final Rule on Occupational Exposure to Respirable Crystalline Silica is required (i.e. before June 23, 2017 for construction; and before June 23, 2018 for general industry and maritime).

Engineering Controls: Use only outdoors or in a well-ventilated area. Respirable dust and quartz levels should be monitored regularly. Dust and quartz levels over applicable exposure limits should be reduced by feasible engineering controls, including (but not limited to) wet suppression, ventilation, process enclosure, and enclosed employee work stations.

Personal Protective Equipment:

Eye Protection: Wear eye/face protection.

Hand Protection: Wear protective gloves.

Skin and Body Protection: Wear protective clothing.

Respiratory Protection: Do not breathe dust or fume. Avoid dust production by cutting under water. In case of inadequate ventilation, wear respiratory protection.

Hygiene Measures: Wash thoroughly after handling. Take off all contaminated clothing immediately. Wash contaminated clothing before reuse.

Section 9: Physical and Chemical Properties

Physical State:	Solid
Color:	Various Colors
Odor:	Odorless
Odor Threshold:	Not Applicable
pH:	Not Available
Melting/Freezing Point:	Not Applicable
Initial Boiling Point:	Not Applicable
Flash Point:	Not Applicable
Evaporation Rate:	Not Applicable
Flammability (solid, gas):	Not Available
Lower Explosive Limit:	Not Applicable
Upper Explosive Limit:	Not Applicable
Lower Flammability Limit:	Not Applicable
Upper Flammability Limit:	Not Applicable
Vapor Pressure:	Not Applicable
Vapor Density:	Not Applicable
Relative Density:	Not Available
Water Solubility:	Not Available
Partition Coefficient:	Not Applicable
Autoignition Temperature:	Not Applicable
Decomposition Temperature:	Not Available
Viscosity:	Not Applicable

Section 10: Stability and Reactivity

Reactivity/Stability: Stable under ordinary conditions of use and storage.

Conditions to Avoid: Contact with oxidizing agents, reducing agents, acids, fluorine, aluminum, ammonium salts, magnesium, zinc, lithium, and hydrogen.

Incompatible Materials: Oxidizing agents, reducing agents, acids, fluorine, aluminum, ammonium salts, magnesium, zinc, lithium, and hydrogen. Some components of the material may react vigorously with water.

Hazardous Decomposition Products: Limestone ignites on contact with fluorine. Silica reacts violently with powerful oxidizing agents yielding possible fire and/or explosions. Silica dissolves readily in hydrofluoric acid producing silicon tetrafluoride gas. Some components of the material may react vigorously with water. Some components of this material may react violently with metals at high temperatures. Combustion products may include carbon oxides or other toxic vapors.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

Inhalation: Causes silicosis through prolonged or repeated exposure. May cause cancer (may contain silica and/or titanium dioxide). May cause respiratory irritation.

Ingestion: May be harmful if swallowed.

Skin Contact: May cause severe skin burns and/or irritation.

Eye Contact: Causes serious eye damage.

Chronic Exposure: Causes silicosis through prolonged or repeated exposure. May cause cancer (may contain silica and/or titanium dioxide).

Aggravation of Pre-existing Conditions: Exposure may aggravate pre-existing respiratory illness/disorders.

Numerical Measures of Toxicity: None available

Carcinogenicity: This material may contain silica (crystalline quartz), which is classified by NTP as Known to be a human carcinogen; and by IARC as Group 1 (Carcinogenic to Humans). Additionally, this material may contain titanium dioxide, which is suspected of causing cancer. Titanium dioxide is not classified by NTP or IARC.

Section 12: Ecological Information

Release into waters may increase particulates in the water. Avoid release to the environment. Collect spillage. Limestone is also alkaline and may affect the pH of the environment if it is released.

Section 13: Disposal Considerations

Dispose of material in accordance with all applicable local, state and national regulations.

Section 14: Transport Information

US DOT:

Not classified as a hazardous material by US DOT.

Section 15: Regulatory Information**US Regulatory Information:**

SARA 302: None/no reportable quantities

SARA 311/312 Hazard Categories: Acute Health Hazard, Chronic Health Hazard

SARA 313: Aluminum Oxide (CAS #1344-28-1) is subject to SARA 313 reporting requirements.

TSCA: All substances in this product are listed on the TSCA inventory.

Section 16: Other Information

The information contained in this SDS is presented in good faith and believed to be accurate based on the information provided. The SDS does not purport to be all inclusive, and shall be used only as a guide. While Sam Braen Stone believes that the data contained herein comply with 29 CFR 1910.1200, they are not to be taken as a warranty or representation for which Sam Braen Stone assumes legal responsibility. Sam Braen Stone shall not be held liable or accountable for any loss or damage associated with the use of this material and information. The recommended industrial hygiene and safe use, handling, storage, and disposal procedures are believed to be generally applicable. However, since the use, handling, storage, and disposal are beyond Sam Braen Stone control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability of loss, damage, or expense arising out of the material's improper use.

Legend:

ACGIH: American Conference of Governmental & Industrial Hygienists

CAS: Chemical Abstract Service

CFR: Code of Federal Regulations

DOT: Department of Transportation

GHS: Globally Harmonized System of Chemical Classification and Labelling

IARC: International Agency for the Research of Cancer

IATA: International Air Traffic Association

IDLH: Immediately Dangerous to Life or Health

IMDG: International Maritime Dangerous Goods

IMO: International Maritime Organizations

LC50: Median Lethal Concentration

LD50: Median Lethal Dose

NIOSH: National Institute of Occupational Safety and Health

NFPA: National Fire Protection Association

NTP: National Toxicology Program

OSHA: Occupational Safety & Health Administration

PEL: Permissible Exposure Limits

PPM: Parts Per Million

RCRA: Resource Conservation & Recovery Act

REL: Recommended Exposure Limits

RQ: Reportable Quantity

RTK: Right-To-Know
SARA: Superfund Amendments & Reauthorization Act
STEL: Short Term Exposure Limit
TLV: Threshold Limit Value
TSCA: Toxic Substances Control Act
TWA: Time Weighted Average
TCLP: Toxicity Characteristic Leaching Procedure
US: United States
VOC: Volatile Organic Compounds

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