



Safety Data Sheet

Revision Date: 07/14/2016

Section 1: Identification

Product Names: 3/8" Clean Stone
3/4" Crushed Stone
1 1/2" Crushed Stone
2 1/2" Crushed Stone
Quarry Process
Rip Rap
Gabion
Stone Dust

Common Names/Synonyms: Basalt

Recommended Use: Construction Material
Restrictions on Use: No Data

Company: Stone Industries
Haledon Quarry & Asphalt Plant
400-402 Central Avenue
Haledon, New Jersey 07508

Telephone: (973) 595-6250 (Only available during normal business hours.)

Emergency Telephone Number: (973) 445-7764
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Section 2: Hazards Identification

Emergency Overview:

Danger: May cause cancer (contains silica). Causes silicosis through prolonged or repeated exposure. Causes serious eye damage. Causes skin irritation. May cause respiratory irritation.

GHS Classification:

Carcinogen, Category 1A
Specific Target Organ Toxicity, Repeated Exposure, Category 1
Eye Damage, Category 1
Skin Irritation, Category 2
Specific Target Organ Toxicity, Single Exposure, Category 3

GHS Label Elements:**Pictogram(s):****Signal Word:** Danger**Hazard Statement(s):**

May cause cancer (contains silica).
 Causes silicosis through prolonged or repeated exposure.
 Causes serious eye damage.
 Causes skin irritation.
 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: Wash with plenty of water.
 If skin irritation occurs: Get medical advice/attention.
 Take off contaminated clothing and wash it before reuse.
 If inhaled: Remove person to fresh air and keep comfortable for breathing.
 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:
Basalt	Not Applicable	Not Applicable	100%
Basalt composition varies naturally, but typically contains:			
Silica, Crystalline Quartz	Quartz	14808-60-7	>1%
Ferric Oxide/ Ferrous Oxide	Iron Oxide Fume	1309-37-1/ 1345-25-1	0 – 10%
Aluminum Oxide	Alumina, Alpha-Aluminum (2:3), Aluminum Trioxide	1344-28-1	0 – 10%
Calcium Oxide	Burned Lime, Quicklime, Unslaked Lime	1305-78-8	0 – 10%
Magnesium Oxide	Magnesia Fume, Maglite, Magox	1309-48-4	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: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it 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: Get medical advice/attention if you feel unwell.

Section 5: Fire Fighting Measures

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

Specific Hazards in Case of Fire: Basalt 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 basalt may react vigorously with water.

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 and/or use of respiratory protective equipment may be necessary. Do not dry sweep spilled material. Wash thoroughly after handling. Take off contaminated clothing and wash 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 and/or use of respiratory protective equipment may be necessary. Do not dry sweep spilled material. 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. Wash thoroughly after handling. Wear protective gloves, protective clothing, eye protection/face protection. Do not eat, drink or smoke when using this product.

Storage: Store in a well-ventilated place.

Section 8: Exposure Controls/Personal Protection

Exposure Limits:

Chemical Ingredients:	CAS Number:	OSHA PEL	NIOSH REL	ACGIH TLV
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
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)
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)
Calcium Oxide	1305-78-8	5 mg/m ³ TWA	2 mg/m ³ TWA	2 mg/m ³ TWA
Magnesium Oxide	1309-48-4	15 mg/m ³ TWA	No Established Limit	10 mg/m ³ TWA (inhalable fraction)

* 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. In case of inadequate ventilation, wear respiratory protection.

Hygiene Measures: Wash thoroughly after handling. Take off contaminated clothing and wash it 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 strong oxidizers, acids, fluorine, aluminum, ammonium salts, magnesium, and hydrogen.

Incompatible Materials: Strong oxidizers, acids, fluorine, aluminum, ammonium salts, magnesium, and hydrogen. Some components of basalt may react vigorously with water.

Hazardous Decomposition Products: Basalt 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 basalt may react vigorously with water.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

Inhalation: Causes silicosis through prolonged or repeated exposure. May cause cancer (contains silica).

Ingestion: May be harmful if swallowed.

Skin Contact: May cause skin irritation.

Eye Contact: Causes serious eye damage.

Chronic Exposure: Causes silicosis through prolonged or repeated exposure. May cause cancer (contains silica).

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

Numerical Measures of Toxicity: None available

Carcinogenicity: This material contains silica (crystalline quartz), which is classified by NTP as Known to be a human carcinogen; and by IARC as Group 1 (Carcinogenic to Humans).

Section 12: Ecological Information

Release into waters may increase particulates in the water. Avoid release to the environment. Collect spillage.

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 Braen Stone/Stone Industries 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 Braen Stone/Stone Industries assumes legal responsibility. Braen Stone/Stone Industries 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 Braen Stone/Stone Industries 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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