



Safety Data Sheet (SDS)

Product: Adhered Masonry Stone Veneer (AMSV)

SDS No: 010 Preparation Date: 08/01/2015
Version No.: 1.0 Supersedes Date: 05/01/2010

SECTION 1. IDENTIFICATION OF THE MIXTURE AND SUPPLIER

1.1 Product Identifier:

Product name: Adhered Masonry Stone Veneer
Product code: Various
Formula: Mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Relevant identified uses: Interior or Exterior Wall or Surface Covering

1.3 Details of the supplier of the safety data sheet:

Manufacturer/Supplier Baton LLC
Street Address 1301 West Kentucky Street
City/State/Country/Postcode Louisville, KY, USA 40210
Customer service telephone: 502-566-6006

1.4 Emergency telephone number:

Emergency telephone number: 855-299-3845

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the mixture:

This product is an article as defined in the OSHA Hazard Communication Standard [29 CFR 1910.1200(c)] and is exempt from regulatory requirements when handled as a manufactured item. This SDS contains additional health hazard information related to dust generation during construction.

An SDS not is required for articles; however, this SDS is provided to communicate hazards associated where activities related to the Adhered Masonry Stone Veneer (cutting, grinding, crushing, drilling or breaking) may result in the release of a hazardous substance in DUST. AirStone is to be cut using a hand-held hacksaw to keep airborne silica levels below the PEL (Permissible Exposure Limit).

GHS Classification(s) for Adhered Masonry Stone Veneer according to OSHA Hazard Communication Standard (29 CFR 1910.1200) under normal handling conditions:

None

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GHS Classification(s) for dust generated from cutting, grinding, crushing, drilling or breaking of Adhered Masonry Stone Veneer according to OSHA Hazard Communication Standard (29 CFR 1910.1200) under use conditions that may result in the release of hazardous substances:

Skin Corrosion/Irritation, Category 2 (H315)

Eye Damage/Irritation, Category 2 (H319)

Specific Target Organ Toxicity-Repeated Exposure (STOT-RE), Category 1 (H372)

Note: The AMSV dust classifications are based on (1) individual ingredient classifications (i.e., Silica Sand [SiO₂], expanded clay, expanded glass, Portland Cement, slag, etc.), (2) the final chemical composition of the AMSV (based on cement chemistry) and (3) the form of the material (dust). Further, the Specific Target Organ Toxicity-Repeat Exposure is a conservative classification based on the potential presence of respirable crystalline silica. Baton LLC has not performed analysis for the presence of respirable crystalline silica under these handling conditions.

Additional information:

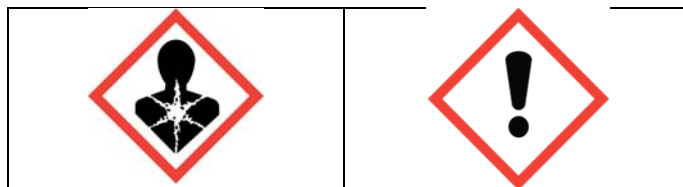
For full text of GHS Hazard statements (H-statements) and associated Precautionary statements (P-statements), see below.

2.2 Label elements

The Hazard Pictograms, Signal Word and Precautionary Statements only apply to activities that may release hazardous substances from the AMSV (i.e., cutting / grinding / crushing / drilling / breaking).

No Hazard Pictograms, Signal Word or Precautionary Statements are applicable to the Adhered Masonry Stone Veneer.

Hazard Pictograms that apply to the dust generated from cutting, grinding, crushing, drilling or breaking of the Adhered Masonry Stone Veneer:



Signal Word:

Danger

Hazard Statements:

H315: Causes skin irritation.

(For AMSV Dust Generated from Cutting, Grinding, Crushing, Drilling or Breaking)

H319: Causes eye irritation.

H372: Causes damage to lungs through prolonged or repeated inhalation exposure.

Precautionary Statements:

P260: Do not breathe dust.

(For AMSV Dust Generated from Cutting, Grinding, Crushing, Drilling or Breaking)

P270: Do not eat, drink or smoke while using this product.

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

P264: Wash thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352: IF ON SKIN: Wash with plenty of water.

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

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	P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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2.3 Other hazards related to AMSV dust generated from cutting, grinding, crushing, drilling or breaking of adhered masonry stone veneer.

Listed Carcinogens: Silica dust (respirable, crystalline fraction) in the form of quartz.

IARC: Yes **NTP:** Yes **OSHA:** No **Other:** No (European Union)

Hazardous Properties: Dust generated from cutting, grinding, crushing, drilling or breaking may cause eye damage and skin irritation. May be irritating to respiratory tract. Respirable crystalline silica may cause damage to lungs upon repeated inhalation exposures.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Description of Product:

Concrete matrix article.

3.2 Mixture

Substances and hazard classification based on dust composition

Ingredient	Product Identifier (CAS No.)	%(w/w)	Classification (GHS-US)
Expanded glass	65997-17-3	10-20	<ul style="list-style-type: none">• Respiratory Irritation, STOT 3, H335• Eye Irritation 2B, H320
Expanded clay	68334-37-2	20-30	
Portland cement (cured)	65997-15-1	14-30	<ul style="list-style-type: none">• Respiratory Irritation, STOT 3, H335• Eye Irritation 2B, H320
Quartz	14808-60-7	10-25	<ul style="list-style-type: none">• Carc. 1A, H350• STOT Respiratory 2, H372
Slag (ferrous metal blast furnace)	65996-69-2	10-30	<ul style="list-style-type: none">• Respiratory Irritation, STOT 3, H335• Eye Irritation 2B, H320
Iron Oxide	1309-37-1	1.5	<ul style="list-style-type: none">• Not classified

Note: This product contains additional not classified substances at low concentrations that do not contribute to the hazards of this product.

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SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures:

Inhalation:	If dust generated from cutting, grinding, crushing, drilling or breaking is inhaled, remove person to fresh air and keep comfortable for breathing. Get medical attention if respiratory symptoms persist.
Skin contact:	If dust generated from cutting, grinding, crushing, drilling or breaking is on skin, wash with soap and water. Get medical advice/attention if irritation occurs/persists.
Eye contact:	If dust generated from cutting, grinding, crushing, drilling or breaking is in eyes, rinse cautiously with water for several minutes. Get medical advice/attention if irritation occurs/persists.
Ingestion:	No specific first aid measures are required.

4.2 Most important health effects related to AMSV dust generated from cutting, grinding, crushing, drilling or breaking, both acute and delayed:

Acute effects:	Direct exposure to dust generated from cutting, grinding, crushing, drilling or breaking may cause eye damage/irritation, skin irritation and respiratory irritation. Dust can dry and irritate the skin and cause dermatitis. Can irritate eyes and skin through mechanical abrasion.
Delayed effects:	Chronic exposure to inhaled dust generated from cutting, grinding, crushing, drilling or breaking may cause lung damage from repeated exposure. Chronic inhalation of dusts containing free crystalline silica may result in silicosis.

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing Media:

Suitable extinguishing media:	Product is not flammable. Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media:	Not applicable; the product is not flammable.

5.2 Special hazards arising from the substance or mixture:

Hazardous combustion products: None known.

5.3 Advice for firefighters:

Special protective equipment and precautions for firefighters: As with any fire, wear self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent) and full protective gear

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SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures associated with AMSV dust generated from cutting, grinding, crushing, drilling or breaking:

For Non-Emergency Personnel:

Protective equipment: In case of exposure to dust generated from cutting, grinding, crushing, drilling or breaking, wear specified protective equipment. (See Section 8).
Emergency procedures: Avoid the creation of dust generated from cutting, grinding, crushing, drilling or breaking. Use scooping, water/flushing/misting or vacuum cleaning systems. Wet methods of cutting, grinding, crushing, drilling or breaking are the preferred method of controlling dust.

For Emergency Responders:

Protective equipment: In case of exposure to dust generated from cutting, grinding, crushing, drilling or breaking, wear specified protective equipment. In case of fire, use self-contained breathing apparatus with full face mask.

6.2 Environmental Precautions

Discard any product or dust residue in compliance with local regulations.

6.3 Methods and material for containment and cleaning up:

For containment and cleaning up: After cutting, grinding, crushing, drilling or breaking activities, use scooping, water spraying/flushing/misting or ventilated vacuum cleaning system to clean up dust generated from cutting, grinding, crushing, drilling or breaking. Use closed containers. Do not use pressurized air to clean dust.
Other information: Take measures to avoid dust formation during cutting, grinding, crushing, drilling or breaking activities.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Protective measures: Avoid contact with dust generated from cutting, grinding, crushing, drilling or breaking with skin, eyes, and clothing. Avoid breathing dust. Wash thoroughly after handling. Wet methods of cutting, grinding, crushing, drilling or breaking are the preferred method of controlling dust.
Measures to prevent fires: Not applicable; material is non-flammable.
Measures to prevent dust generation: Vacuum, scoop, or use water mist/spray/flush to remove generated dust during cutting, grinding, crushing, drilling or breaking activities. Do not use pressurized air. Wet methods of cutting, grinding, crushing, drilling or breaking are the preferred method of controlling dust.
Measures to protect the Not applicable; material is not an environmental hazard.

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Advice on general occupational hygiene:

Practice good housekeeping. Avoid formation of dust generated from cutting, grinding, crushing, drilling or breaking. Do not breathe dust. Use adequate exhaust ventilation, dust collection and/or water mist to maintain airborne dust concentrations below permissible exposure limits. Respirable crystalline silica dust may be in the air without a visible dust cloud. In case of insufficient ventilation, wear a NIOSH approved respirator for silica dust when using, handling, storing or disposing dust from this product. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Maintain and test ventilation and dust collection equipment. Wash or vacuum clothing that has become dusty. Avoid eating, smoking, or drinking while handling the material.

7.2 Conditions for safe storage, including any incompatibilities:

Storage conditions: Minimize dust produced during loading and unloading.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**8.1 Exposure Limits**

The following exposure limits are based on a time-weighted full-shift exposure, unless otherwise noted

Ingredient	OSHA PEL⁽¹⁾	ACGIH-TLV⁽²⁾	Other⁽³⁾⁽⁴⁾
Expanded glass	15 mg/m ³ (total dust); 5 mg/m ³ (respirable fraction)	10 mg/m ³ (total dust); 5 mg/m ³ (respirable fraction)	
Expanded clay	15 mg/m ³ (total dust); 5 mg/m ³ (respirable fraction)	10 mg/m ³ (total dust); 3 mg/m ³ (respirable fraction)	
Portland cement	15 mg/m ³ (total dust); 5 mg/m ³ (respirable fraction)	1 mg/m ³ (respirable fraction containing no asbestos and < 1% crystalline silica)	NIOSH REL – 10 mg/m ³ (total dust); 5 mg/m ³ (respirable fraction)
Quartz	30 mg/m ³ ÷ % SiO ₂ +2 (total dust) 10 mg/m ³ ÷ % SiO ₂ +2 (respirable fraction)	0.025 mg/m ³ (respirable fraction)	NIOSH REL – 0.05 mg/m ³ (respirable fraction)
Slag	Not established	Not established	
Iron oxide	<u>Fume</u> : 10 mg/m ³ (total dust); <u>Particulate</u> : 15 mg/m ³ (total dust); 5 mg/m ³ (respirable fraction)	5 mg/m ³ (respirable dust)	NIOSH REL – 5 mg/m ³ (total dust)

NOTES:

1. OSHA PEL (Permissible Exposure Level at 29 CFR 1910.1000)
2. ACGIH-TLV (American Conference of Governmental Industrial Hygienists-Threshold Limit Values 2015)
3. NIOSH REL (National Institute for Occupational Safety & Health Recommended Exposure Limit)
4. Canadian Provincial and other national control parameters are listed on the Supplement

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8.2 Exposure controls:

8.2.1. Exposure Controls

Engineering controls: Ventilation should be adequate to maintain the ambient workplace atmosphere below the exposure limit(s). Use general and local exhaust ventilation and dust collection systems as necessary to minimize exposure to dust generated from cutting, grinding, crushing, drilling or breaking. Wet methods of cutting, grinding, crushing, drilling or breaking are the preferred method of controlling dust.

8.2.2. Personal Protective Equipment

Respiratory protection: Wear a NIOSH/MSHA approved particulate respirator if exposure to dust generated from cutting, grinding, crushing, drilling or breaking is unavoidable and where occupational exposure limits may be exceeded. If airborne dust exposures exceed the PEL or TLV, a self-contained breathing apparatus or airline respirator is recommended.

Eye and face protection: If eye contact with dust generated from cutting, grinding, crushing, drilling or breaking is anticipated, wear protective glasses with side shields. Avoid contact lenses.

Hand and skin protection: Wear gloves and protective clothing to minimize skin contact with dust generated from cutting, grinding, crushing, drilling or breaking. Wash hands with soap and water after contact with material.

Foot protection: Wear American National Standards Institute (ANSI) approved hard-toed safety shoes when handling AMSV.

8.2.3. Environmental Exposure Controls

Instructions to prevent exposure: No special requirements. Discard any product or dust residue in compliance with local regulations. Wet methods of cutting, grinding, crushing, drilling or breaking are the preferred method of controlling dust.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Property	Value	Property	Value
Appearance:	Simulated Stone	Lower Explosive Limit (LEL):	Not applicable
Odor	Odorless	Vapor Pressure (Pa):	Not applicable
Odor threshold	Not applicable	Vapor Density:	Not applicable
pH (25°C):	Not available	Relative Density/Specific Gravity:	1.4 – 1.6
Melting/Freezing Point (°C):	Not applicable	Water Solubility:	Negligible
Initial Boiling Point (°C):	Not applicable	Partition Coefficient:	Not applicable

n-octanol/water:

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Property	Value	Property	Value
Boiling Range (°C):	Not applicable	Auto-ignition Temperature (°C):	Not applicable
Flash Point(°C):	Not applicable	Decomposition Temperature (°C):	Not available
Evaporation Rate:	Not applicable	Viscosity:	Not applicable
Flammability (solid, gas):	Not combustible	Explosive Properties:	Not applicable
Upper Explosive Limit (UEL)	Not applicable	Oxidizing Properties:	Not applicable

SECTION 10. STABILITY AND REACTIVITY

10.1	Reactivity	Stable inert material
10.2	Chemical stability	Stable inert material
10.3	Possibility of hazardous reactions	None known.
10.4	Conditions to avoid	None known
10.5	Incompatible materials	None known
10.6	Hazardous decomposition products	None known

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Acute toxicity:	No data is available on the AMSV dust generated from cutting, grinding, crushing, drilling or breaking. No ingredients within the mixture exhibit acute toxicity.
Skin corrosion/irritation:	Contact with dust may cause skin irritation.
Serious eye damage / irritation:	Eye Irritant. Eye contact with dust generated from cutting, grinding, crushing, drilling or breaking may cause eye irritation.
Respiratory or skin sensitization:	No data is available on the AMSV dust generated from cutting, grinding, crushing, drilling or breaking. No ingredients exhibit sensitization effects.
Germ cell mutagenicity:	No data is available on the AMSV dust generated from cutting, grinding, crushing, drilling or breaking. No ingredients exhibit mutagenic effects.
Carcinogenicity:	No data is available on the AMSV dust generated from cutting, grinding, crushing, drilling or breaking. Crystalline silica (respirable) has been identified as a carcinogen by IARC and NTP.
Reproductive toxicity:	No data is available on the AMSV dust generated from cutting, grinding, crushing, drilling or breaking. No ingredients exhibit reproductive toxicity.
STOT single exposure:	No data is available on the AMSV dust generated from cutting, grinding, crushing or drilling.
STOT repeated exposure:	No data is available on the repeated inhalation of AMSV dust generated from cutting, grinding, crushing, drilling or breaking. Repeated inhalation of AMSV dust generated from cutting, grinding, crushing or breaking may cause lung damage if respirable crystalline silica is present. Crystalline silica (respirable) has been shown to cause silicosis after repeated exposure.
Aspiration hazard:	Not applicable, the material is not a liquid.

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SECTION 12. ECOLOGICAL INFORMATION

No data available on the AMSV dust generated from cutting, grinding, crushing, drilling or breaking.

SECTION 13. DISPOSAL CONSIDERATIONS

Considered a non-hazardous waste. Follow applicable federal, state and local regulations.

SECTION 14. TRANSPORT INFORMATION

Regulatory Entity

US DOT	Shipping Name	Not regulated
	Hazard Class	Not regulated
	ID Number	Not regulated
	Packing Group	Not regulated

SECTION 15. TOXICOLOGICAL INFORMATION

15.1 Safety, health and environmental regulations / legislation specific to the mixture:

United States Regulations

Toxic Substances Control Act (TSCA) Inventory Status	All components of this product are listed on the TSCA Inventory or are exempt from listing.
SARA (Section 311/312)	Reactive Hazard No
	Pressure Hazard No
	Fire Hazard No
	Immediate/Acute Toxicity No
	Delayed/Chronic Toxicity Yes – respirable crystalline silica
SARA Section 313 Information:	This product does not contain any toxic chemicals listed under 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA).
Clean Air Act (CAA)	This product does not contain any toxic chemicals listed under the CAA at concentrations greater than 0.1%.
	VOC Content (weight %). 0 wt. %

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United States Regulations

**Volatile Organic
Compounds (VOCs)**

Remarks: Estimated

State Right-to-Know Status

Massachusetts:

California Prop. 65: Crystalline Silica.

Silica, Crystalline-Quartz; Calcium oxide;
Calcium carbonate (Limestone); Portland
cement; Iron oxide dust.

New Jersey

Silica, Crystalline-Quartz; Calcium oxide;
Calcium carbonate (Limestone); Cement,
Portland, Chemicals; Iron oxide.

Pennsylvania:

Quartz (silica dioxide); Calcium oxide; Calcium
carbonate (Limestone); Cement, Portland,
Chemicals; Iron oxide.

SECTION 16. OTHER INFORMATION

16.1 Indication of changes:

Initial SDS prepared on 04-07-2015; Revised 12/07/2015

16.2 Abbreviations and acronyms:

AMSV Adhered Masonry Stone Veneer

ANSI: American National Standards Institute

CAA: Clean Air Act

Cal/OSHA: California Department of Industrial Relations - Division of Occupational Safety and Health

CAS: Chemical Abstract Service Registry Number

CFR: Code of Federal Regulations

CWA: Clean Water Act

GHS: Globally Harmonized System of Classification and Labeling

HMIS: Hazardous Materials Identification System

IARC: International Agency for Research on Cancer

LEL: Lower explosive limit

MSHA: Mine Safety and Health Administration

NA: Not Applicable

NIOSH: National Institute of Occupational Safety and Health

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

Pa: Pascal

PEL: Permissible exposure limit

SARA: Superfund Amendments and Reauthorization Act

SDS: Safety data sheet

STEL: Short-term exposure limit

STOT-RE: Specific target organ toxicity-repeated exposure

STOT-SE: Specific target organ toxicity-single exposure

TLV: Threshold limit value

TSCA: Toxic Substances Control Act

TWA: Time-weighted average

UEL: Upper explosive limit

USA: United States of America

US DOT: United States of Department of Transportation

VOC: Volatile organic compound

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16.3 Other hazards: Hazardous Materials Identification System (HMIS) Degree of hazard: 0 = low, 4 = extreme

Health: 1* **Flammability:** 0 **Reactivity:** 0
:

** Dust generated from cutting, grinding, crushing, drilling or breaking activities may result in a chronic health hazard (Category 3 Health Hazard)*

Personal Protection: B

Disclaimer:

This SDS has been prepared in accordance with the Hazard Communication Rule 29 CFR 1910.1200. Information herein is based on data considered to be accurate as of date prepared. No warranty or representation, express or implied, is made as to the accuracy or completeness of this data and safety information. No responsibility can be assumed for any damage or injury resulting from abnormal use, failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.

— End of Safety Data Sheet (SDS) —

Product Name(s): AirStone®

Baton LLC
945 S. 13th St.
Louisville, KY 40210

Emergency Contacts:

Emergencies ONLY: 855-299-3845

Health and Technical Contacts:

Product Information (8 am – 5 pm ET): 855-299-3845
FAX: 502-566-6004

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

<u>CAS#</u>	<u>Component</u>
65997-15-1	Cement
Not Available	Non-hazardous ingredients
Proprietary	Filler
1309-37-1	Iron Oxide

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Silica, crystalline (general form).

Component Information/Information on Non-Hazardous Components

As provided, this product is expected to produce minimal if any hazards. However, if dust is generated, this product would be considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

As provided, this material is in a cured form and the above listed components are not readily available, however if dusts are generated, these components may be present.

— End of Safety Data Sheet (SDS) —

Material Safety Data Sheet

SECTION 3 – HAZARDS IDENTIFICATION

Appearance and Odor: Cured concrete product of various shapes, sizes and colors.

Emergency Overview:

- No unusual conditions are expected from this product.
- Inhalation of dusts produced during cutting, grinding or sanding of this product may cause irritation of the respiratory tract.

Potential Health Effects

Inhalation:

Dusts of this product may cause irritation of the nose, throat, and respiratory tract. This product contains silica as a contaminant. Prolonged and repeated inhalation of respirable crystalline silica can cause silicosis, a chronic lung disease characterized by fibrosis and scarring of the lung tissue resulting in a decrease in lung function, breathlessness, wheezing, coughing and sputum production. Short term overexposures to extremely high concentrations of respirable crystalline silica can produce acute silicosis. Acute silicosis is a disease that can rapidly progress within months of initial overexposure and reportedly has caused death within 1 to 2 years.

Skin Contact:

Dust from this product may cause itching and short term irritation.

Eye Contact:

Dust from this product may cause slight irritation to the eyes, including redness, tearing and blurred vision.

Ingestion:

Ingestion of this product is unlikely. However, ingestion of product may produce gastrointestinal irritation and disturbances.

Medical Conditions Aggravated by Exposure:

Chronic respiratory or skin conditions may temporarily worsen from exposure to dust from this product.

SECTION 4 – FIRST AID MEASURES

Inhalation:

- If inhaled, immediately remove the affected person to fresh air.
- If irritation persists, get medical attention.

Skin Contact:

- For skin contact, flush with large amounts of water.
- If irritation persists, get medical attention.

Eye Contact:

- Immediately flush eyes with plenty of water for at least 15 minutes.
- If irritation persists, get medical attention.

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Ingestion:

- Ingestion of this material is unlikely
- If it does occur, watch the person for several days to make sure that partial or complete intestinal obstruction does not occur.
- Do not induce vomiting unless directed to do so by medical personnel.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point:	None	Flash Point Method:	Not applicable
Upper Flammability Limit:	Not applicable	Lower Flammability Limit:	Not applicable
Flammability Classification:	Non-flammable	Auto Ignition Temp:	Not applicable

Extinguishing Media:

Use any extinguishing media appropriate for the surrounding fires.

Unusual Fire & Explosion Hazards:

None identified.

Fire-Fighting Instructions:

Use self-contained breath apparatus (SCBA) and protective clothing ensemble as defined in NFPA 1500.

Hazardous Combustion Products: None.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Containment Procedures:

- Scoop up material and put into a suitable container for disposal as a non-hazardous waste.
- Dust from cutting or drilling this material will settle out of the air. If concentrated on land, it can then be scooped up for disposal as a non-hazardous waste.

Clean-Up Procedures:

- Sweep up or gather material and place in appropriate container for disposal.
- Wash spill area thoroughly.
- Wear appropriate protective equipment during cleanup.
- Avoid the generation of dusts during clean-up.

Response Procedures:

- Isolate area.
- Keep unnecessary personnel away.

Special Procedures: None

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SECTION 7 – HANDLING AND STORAGE

Handling Procedures:

- No special procedures are required for this material.
- Avoid breathing dusts from this material.
- Avoid dust contact with eyes and skin.
- Minimize generation of dusts.

Storage Procedures:

No special procedures are required for this material.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

General Product Information

Follow all applicable exposure limits if dusts are generated.

Component Exposure Limits

ACGIH and OSHA exposure limit lists have been checked for those components with CAS registry numbers.

Iron oxide (1309-37-1)

ACGIH: 5 mg/m³ TWA (welding fumes, dust, total particulate as Fe)

OSHA: fume: 10 mg/m³ TWA

Ventilation:

- General dilution ventilation and/or local exhaust ventilation should be provided as necessary to maintain exposures below occupational exposure limits.
- Dust collection systems may be necessary in some operations.

Personal Protective Equipment - Respiratory Protection:

- A properly fitted NIOSH approved dust respirator or equivalent should be used under the following conditions:
 - 1) any dust environment
 - 2) when mechanically altering product (sawing, cutting, drilling or other similar dust generating process).
- Use respiratory protection in accordance with your company's respiratory protection program, local regulations and OSHA regulations under 29 CFR 1910.134.

Personal Protective Equipment – Skin Protection:

Wear leather or other appropriate work gloves, if necessary for type of operation.

Personal Protective Equipment - Eyes/Face Protective Equipment:

Wear safety glasses with side shields.

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SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Cured concrete product of various shapes, sizes and colors	Odor:	Not applicable
Physical State:	Solid	pH:	Not applicable
Vapor Pressure (mmHg @ 20 C):	Not applicable	Vapor Density (Air=1):	Not applicable
Boiling Point:	Not applicable	Solubility (H2O):	Not applicable
Specific Gravity (Water=1):	Not applicable	Freezing Point:	Not applicable
Evaporation Rate (n-Butyl Acetate=1):	Not applicable	Viscosity:	Not applicable
Physical Properties			
Additional Info:	No additional information available.		

SECTION 10 – CHEMICAL STABILITY & REACTIVITY INFORMATION

Stability:

This is a stable material.

Conditions to Avoid:

Avoid dispersion of dust in air.

Incompatible Materials:

None expected.

Hazardous Decomposition Products:

None identified

Hazardous Polymerization:

Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute and Chronic Toxicity: General Product Information

- Dusts from cutting and drilling may cause mechanical irritation to eyes and skin.
- Ingestion may cause transient irritation of throat, stomach and gastrointestinal tract.
- Inhalation may cause coughing, nose and throat irritation, and sneezing.
- Higher exposures may cause difficulty breathing, congestion, and chest tightness.

Component Analysis – DL50/CL50

No LD50/LC50's are available for this product's components.



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Carcinogenicity:

General Product Information

CRYSTALLINE SILICA: The International Agency for Research on Cancer (IARC) recently reviewed existing epidemiological data and concluded that crystalline silica inhaled in the form of quartz from occupational sources is known human carcinogen (Group 1). In making the assessment, the IARC noted that carcinogenicity was not detected in all industrial circumstances studied. However, IARC reported that a majority of studies indicated an elevated mortality for lung cancer among silica-exposed workers. IARC noted that increased rates of lung cancer were reported among some workers in ore-mines, quarries, foundries, ceramics, granite and stone cutting industries. The workers in some of these occupational studies were exposed to other potential respiratory carcinogens such as arsenic, radon, diesel exhaust, polycyclic aromatic hydrocarbons or cadmium. The IARC reviewed animal studies and concluded that there is sufficient evidence in experimental animals for the carcinogenicity of quartz.

Silica-crystalline quartz has resulted in liver, blood, and lung tumors in rates by inhalation, intraperitoneal and intravenous injection, intratracheal and intrapleural administration.

Component Carcinogenicity

ACGIH, IARC, OSHA, and NTP carcinogen lists have been checked for those components with CAS registry numbers.

Iron oxide (1309-37-1)

ACGIH: A4 – Not Classifiable as a Human Carcinogen (dust and fume, as Fe)
IARC: Supplement 7, 1987; Monograph 1, 1972 (Group 3 (not classifiable))

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: No data available for this product.

Environmental Fate: No data available for this product.

SECTION 13 – DISPOSAL CONSIDERATIONS

US EPA Waste Number & Descriptions:

General Product Information

No components are identified

Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.



Material Safety Data Sheet

Disposal Instructions:

Consult appropriate authorities before disposing of this material.

SECTION 14 – TRANSPORTATION INFORMATION

US DOT Information:

Shipping Name: Not regulated for transport.

Hazard Class: None

UN/NA 3: None

Packing Group: None

Required Label(s): None

Additional Info: None

TDG Information

Shipping Name: Not regulated for transport

Hazard Class: None

UN/NA #: None

Packing Group: None

Required Label(s): None

Additional Info: None

Additional Transportation Regulations: No additional information available

SECTION 15 – REGULATORY INFORMATION

US Federal Regulations:

General Product Information - No information available for the product.

Component Analysis

None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

SARA 311/312

Acute Health Hazard: Yes (if dusts are generated)

Chronic Health Hazard: Yes (if dusts are generated)

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

Clean Air Act

None of this product's components are listed on the Clean Air Act – 1990 Hazardous Air Pollutants List.

State Regulations:

General Product Information - No additional information available



Material Safety Data Sheet

Component Analysis – State

Iron Oxide appears on the hazardous substance list for the States of CA, MA, MN, NJ, PA. Glass, Oxide appears on the hazardous substance list for MN.

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

Other Regulations:

General Product Information – No additional information available.

Component Analysis – Inventory

In a component analysis of iron oxide and glass, oxide, TSCA, DSL & EINECS were detected.

Component Analysis – WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component:	CAS #:	
Iron oxide	1309-37-1	1% item 762 (1327)

WHMIS Status: Controlled

WHMIS Classification: D2A – Carcinogenicity (if dusts are generated)

SECTION 16 – OTHER INFORMATION

HMIS and NFPA Hazard Ratings:

Category:	HMIS:	NFPA:
Health	1*	1
Flammability	0	0
Reactivity	0	0

NFPA Unusual Hazards: None

HMIS Personal Protection: To be supplied by user depending upon use.

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.



Material Safety Data Sheet

Key/Legend:

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH – American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP – National Toxicology Program; OSHA = Occupational Safety and Health Administration; NFPA – National Fire Protection Association; HMIS = Hazardous Material Identification System; CERCLA – Comprehensive Environmental Response, Compensation and Liability Act; SARA – Superfund Amendments and Reauthorization Act; DSL= Canadian Domestic Substance List; EINECS = European Inventory of New and Existing Chemical Substances; WHMIS = Workplace Hazardous Materials Information System; CAA = Clean Air Act.

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