Cemstone Products Company.
2025 Centre Point Boulevard, Suite 300
Mendota Heights, MN 55120-1221
Date: July 2015 Rev: 1

Emergency Phone:
1-800-642-3887
Information Phone:
651-688-9292

Section 1: Product Identification

Product Type: Sands and Fine Aggregates

Product Names

Class D Sand	Masonry Sand
Micro Fine Sand	Concrete Select Granular Fill
Safety Grit	Concrete Sand.

Section 2: Hazard Identification

Very fine dust from the material may contain crystalline silica, which is harmful to breathe.

Danger: Crystalline silica may cause cancer when inhaled. Crystalline silica causes damage to lungs through prolonged or repeated exposure from inhaling dust.

This product has been evaluated according to GHS and 29CFR1910.1200, Appendix A. Because it may contain crystalline silica (quartz), it is categorized in Health Hazard Carcinogen Category 1A and Specific Target Organ Toxicity (Repeated Exposure) Hazard Category 1.

Applicable hazard statements:
May cause cancer from inhaling dust.
Causes damage to respiratory system (silicosis) through prolonged or repeated exposure to inhaled dust.

Applicable Precautionary Statements:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dusts
Do not eat, drink or smoke when using this product.
Wash hands thoroughly after handling.
Wear eye protection
If exposed or concerned, or if you feel unwell: Get medical advice.
Store locked up.
Dispose of contents in accord with local regulations

© Cemstone Products

Section 3: Hazardous Ingredients/Composition

Ingredient	Typical Percentage	CAS #
Crystalline silica (quartz)	>90%	14808-60-7

Section 4: First Aid Measures

Inhalation:

If any irritation or coughing develops, move to fresh air.

Eye contact:

Hold eyelids apart and flush eyes with plenty of water. At least fifteen minutes of flushing is recommended. If any irritation persists or particles are not removed from eye by flushing, get medical attention.

Skin Contact:

Wash with soap and water.

Ingestion:

Very low toxicity by ingestion. Swallowing harmful amounts is unlikely. If swallowed, check with the Poison Control Center or a doctor. Do not induce vomiting unless directed to do so by medical personnel.

Symptoms of overexposure:

Inhalation: If material becomes airborne, breathing the dust may cause coughing and nose and throat irritation. Long term exposure or extremely high short term exposure to respirable crystalline silica, present in the dust, can cause silicosis (lung scarring) and lung cancer.

Eye contact: Eye abrasion and irritation may develop from direct contact.

Skin Contact: May cause abrasion of skin.

Note to physician: Treat according to symptoms. No known specific antidote.

Section 5: Fire Fighting Measures

Fire extinguishing media: Appropriate for surrounding materials. Product is not flammable.

Special fire fighting procedures: none

Unusual fire and explosion hazards: None

Hazardous combustion products: None expected.

Section 6: Accidental Release Measures

Contain and clean up. Avoid creating dust. Clean area with water.

Section 7: Handling and Storage

Avoid breathing dust.
Wash hands after use.
Do not eat, drink, or use tobacco products when handling any chemical products.

Storage: No special precautions required.

Section 8: Exposure Controls/Personal Protection

Occupational Exposure Limits:

	OSHA PEL	OSHA 1989 PEL*	ACGIH TLV	NIOSH REL
Crystalline silica (quartz)	10 mg/m^3 (%silica+2)	0.1 mg/m^3 (respirable)	0.025 mg/m^3 (respirable)	0.05 mg/m^3 (respirable)
Rock dust	15 mg/m^3 (total) 5 mg/m^3 (respirable) as particles not otherwise classified	15 mg/m^3 (total) 5 mg/m^3 (respirable)	10 mg/m^3 (inhalable, as particles - insoluble or poorly soluble not otherwise specified)	None established

*For states that adopted the 1989 PEL revisions (Minnesota, Oregon, Washington)

Engineering Controls:

Avoid creating dust. Water can be used as a dust suppressant.
Local exhaust ventilation is usually not required.

Personal protective equipment

Respiratory protection: Not needed unless dust is created.
For protection against irritation from dust or up to ten times the recommended exposure limits, use a NIOSH-approved N-95 filtering face piece or a half mask respirator equipped with N-95 filters. A more protective respirator (e.g., P100 filters or full face respirator) may be substituted.
Skin protection: Sturdy work gloves recommended to protect hands from abrasion.
Eye protection: Safety glasses with side shields recommended if material could become airborne.

Section 9: Physical and Chemical Properties

Appearance and odor: Light brown granular material (sand) No odor.
Flash point: noncombustible.
Flammable limits: N/A
Melting Point: >3000°F
Solubility in water: negligible.
Specific Gravity: 2.61-2.69 SSD
Evaporation Rate: Does not evaporate.

Section 10: Stability and Reactivity

Stability: stable
Conditions to avoid: none known.
I**ncompatibility**: strong oxidizers, strong acids. Silica will dissolve in hydrofluoric acid to produce silicon tetrafluoride, a corrosive gas.
Hazardous polymerization: will not occur
Hazardous decomposition products: Material is not likely to decompose. Abrasion can create silica-containing respirable dusts.

Section 11: Toxicological Information

Not considered acutely toxic.
No listed ingredients are classified as irritants, per skin or eye irritation criteria of GHS
Not considered respiratory or skin sensitizer
No ingredients have been associated with reproductive toxicity

Some silica (quartz) may be present in the rock that is crushed to make this product. Respirable crystalline silica is categorized as a Health Hazard Carcinogen Category 1A (known to have carcinogenic potential for humans) and a Health Hazard Specific Target Organ Toxicity – Repeated Exposure Category 1. Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. There is evidence that exposure to respirable silica or the disease silicosis is associated with an increased incidence of scleroderma, tuberculosis and kidney disorders.

Crystalline silica is listed as carcinogenic according to IARC. ACGIH classified crystalline silica as a suspected human carcinogen

© Cemstone Products

Section 12: Ecological Information

Product has not been tested but is expected to have very low acute toxicity.
Ecotoxicity: .
Not considered hazardous to the aquatic environment or to the ozone layer.
Persistence and degradability: Not likely to biodegrade

Mobility in soil: not mobile.

Bioaccumulation: Not likely to bioaccumulate

Section 13: Disposal Considerations

As provided, not a RCRA-regulated waste.
Dispose of in accordance with federal, state, and local regulations.

Section 14: Transportation

Not a DOT-regulated hazardous material. Not classified as dangerous goods for DOT, IATA, IMDG, TDG

Section 15: Regulatory Information

This product may contain 0.01% or more of crystalline silica, regulated under California Proposition 65 as a chemical known to the state of California to cause cancer or reproductive effects. It is on the New Jersey Right to Know Hazardous Substance List.

This product does not contain any hazardous air pollutants, nor any chemicals regulated under:

CERCLA	SARA 302 EHS
SARA 311/312	SARA 313

Section 16: Other Information

HMIS® Rating: Health: 0* Fire: 0 Reactivity: 0

HMIS® is a registered trademark of the National Paint and Coatings Association

NFPA 704 Rating: Health: 0 Fire: 0 Reactivity: 0

NFPA rating, from the National Fire Protection Association, is for emergency response

NOTE: The information and recommendations contained herein are based upon data believed to be correct and relate to this specific material. It may not be valid if the material is used with any other materials or in any processes. However, no guarantee or warranty of any kind, express or implied, is made with respect to this information. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products. Before using any product, read its label and safety data sheet.

© Cemstone Products