

Section 2: HAZARD IDENTIFICATION (Continued)

Symptoms of Exposure

- Inhalation: (Acute) Excessive exposure to dust can cause shortness in breath and reduced pulmonary function.
(Chronic) This product contains crystalline silica. Prolonged inhalation can cause silicosis.
- Skin Contact: Product can cause discomfort, irritation and burns when wet on moist skin.
- Eye contact: Dust can cause irritation and inflammation. Eye exposures require immediate first aid and medical attention to prevent significant damage to the eye.

Medical Conditions

Aggravated by Exposure:

Individuals with sensitive skin, allergic dermatitis, pulmonary disease, asthma, bronchitis, COPD or sensitive eye conditions should be precluded from exposure

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	Percent (by weight)	CAS Number	OSHA PEL – TWA (mg/m ³)	ACGIH TLV-TWA (mg/m ³)
Portland Cement	< 5 %	65997-15-1	15 (T) ; 5 (R)	10 (R)
Crystalline Silica (Sand and Gravel)	85-95 %	14808-60-7	10 / % SiO ₂ + 2	.05 (respirable)
Binder	< 5 %	NA	NA	NA

Section 4: FIRST AID MEASURES

- Inhalation: Remove person to fresh air. Seek medical attention if coughing or other symptoms do not subside.
- Skin: Wash with cool water and a pH neutral soap. Seek medical attention if rash or other symptoms do not subside.
- Ingestion: Do not induce vomiting. If conscious have person drink plenty of water. Seek medical attention or contact poison control immediately.
- Eye Contact: Rinse eyes thoroughly with water for 15 minutes, including under lids to remove all particles. Call physician immediately.

Section 5: FIRE FIGHTING MEASURES

Flashpoint
& Method: Non-Combustable

Flash Point: Not applicable

Extinguishing Media: Water
Dry Chemical Fire Extinguishers
Carbon Dioxide Fire Extinguishers

Section 6: ACCIDENTAL RELEASE MEASURES

If spilled do not use water for cleanup. Use dustless methods (vacuum) and place in container. Material becomes slippery when wet. Use appropriate safety equipment. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

Section 7: HANDLING AND STORAGE

General: Stack bagged material in a secure manner to prevent falling. Use proper lifting techniques to prevent injury to the back, arms, shoulders and legs. Handle with care and use appropriate control measures

Wear tight fitting goggles and properly fitting approved OSHA, MSHA and NIOSH respirator when exposed to dust above allowable exposure limits.

Usage: Cutting and grinding can produce respirable crystalline silica. Use all appropriate measures of dust control or suppression and Personal Protective Equipment in Section 8 below.

Storage
Temperature: Unlimited

Storage
Pressure: Unlimited

Section 8: EXPOSURE CONTROL MEASURES

Engineering
Controls: Local exhaust can be used to maintain dust levels below permissible exposure limits.

Personal Protective Equipment
(PPE):

Respiratory
Protection: When exposure limits are above allowable limits use NIOSH approved respirator.

Section 8: EXPOSURE CONTROL MEASURES (Continued)

Eye
Protection: Prevent contact with eyes. Wear ANSI approved goggles or safety glasses. Wearing contact lenses under dusty conditions is not recommended.

Skin
Protection: Wear protective clothing. Boots, gloves and creams are recommended to protect the skin.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid (Powder)	Boiling Point:	>1000° C
Odor:	none	Vapor Pressure:	Not Available
Boiling Point:	>2,700°F	Viscosity:	None,Solid
Specific Gravity:	2.5 to 3.7	Solubility in H ₂ O:	Slightly

Section 10: REACTIVITY DATA

Stability: Stable.

Incompatible
Materials: Avoid Strong acids. Silica will dissolve in hydrofluoric acid and produce a corrosive gas silicone tetra fluoride. Contact with oxidizing agents such as fluorine, chloride tetra fluoride, manganese trioxide and oxygen difluoride may cause fires.

Hazardous Polymerization: Not expected.
Hazardous decomposition: Oxides of calcium

Section 11 and 12: TOXICOLOGICAL AND ECOLOGICAL INFORMATION

Chronic affects on humans: Eye injury, skin disorders and chronic respiratory conditions

Toxicity to Animals: Not Available
LD50 has not been determined
LC 50 has not been determined

Ecotoxicological effects: No expected damaging affects to water organisms.

General: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

BOD5 and COD: Not Available

Section 13: DISPOSAL CONSIDERATIONS

This product is not classified as a hazardous waste under the EPA (40CFR 261).

Dispose of waste and containers in compliance with applicable Federal, State and Local regulations.

Section 14: TRANSPORTATION INFORMATION

Not Hazardous under U.S. DOT and Canadian TDG regulations

Section 15: REGULATORY INFORMATION

This product is considered by OSHA/MSHA to be a hazardous chemical and should be included in the employers hazardous communication program.

This product is not listed as a CERCLA hazardous substance.

EPCRA

SARA Title III: This product has been qualified as a hazardous substance with delayed health

Section 302

Extremely

Hazardous Material: None

Section 304

Notification of

Hazardous

Release: None

Immediate health Affects: Yes

Delayed Health Affects: Yes

Fire Hazard: No

Reactivity Hazard: No

EPRCA

SARA Section 13: This product contains none of the substances subject to the reporting requirements of Section 313 of title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372

TSCA: All components are on the TSCA inventory list.

California

Proposition 65: Crystalline silica is known by the State of California to cause cancer.

Section 16: OTHER INFORMATION

This information is provided in good faith and is believed to be accurate; however, the contained information shall not be construed as legal advice and shall be assumed in connection with the use of this information.

For additional information, refer to the 2000 Emergency response Guidebook and the ACGIH Documentation of the Threshold Limit Values

No warranty is made, express or implied, of merchantability, fitness for a particular purpose, or otherwise.

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