

MATERIAL SAFETY DATA SHEET

SAND PRODUCTS

Page: 1
Date: May 16, 2002

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Class D Sand, Masonry Sand, Micro Fine Sand, Concrete Select Granular Fill, Safety Grit and Concrete sand.

General Use: Used as a component of masonry materials and other construction related uses

Product Description: Granular Mineral

MANUFACTURER: **EMERGENCY TELEPHONE**
NUMBERS: 1-800-642-3887

Cemstone Products Company
Cemstone Ready Mix
Twin City Concrete Products
Roberts Concrete Products
2025 Centre Pointe Blvd. Suite 300
Mendota Heights, MN 55120

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	wt %	CAS Registry #
Silicon Dioxide	>90	14808-60-7
Water	<10	7732-18-5

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):

	EXPOSURE LIMITS 8 hrs TWA (ppm)		
	OSHA PEL	ACGIH TLV	Other
Silicon Dioxide	0.1 mg/M3	0.1 mg/M3	

3. HAZARD IDENTIFICATION

The major component of sand is crystalline silica. Inhalation of silica dust may cause coughing, sneezing, irritation, and inflammation of the upper respiratory system. Inhalation of free crystalline silica (silicon dioxide) may cause silicosis.

Silicosis, a form of disabling, progressive, potentially fatal pulmonary fibrosis is characterized by the presence of typical nodulation in the lung. Earliest lesions are seen in the respiratory bronchioles region. Crystalline silica is a known carcinogen.

EYE CONTACT:

Direct dust exposure to the eye may cause irritation, destruction of eye tissue if dust is not washed from the eye.

SKIN CONTACT:

Exposure to granular material could cause skin abrasion.

INGESTION:

Is only important if large quantities of the material are swallowed so as to cause blockage.

INHALATION:

Cough, shortness of breath, wheezing, impaired pulmonary function.

CHRONIC:

May cause silicosis with scarring of the lungs with cough and shortness of breath with prolonged, repeated exposure.

4. FIRST AID MEASURES**INHALATION:**

Allow the victim to rest in a well ventilated area. Seek immediate medical attention. In cases of inhalation of IDHL levels, evacuate the victim to a safe area as soon as possible. Loosen tight fitting clothing. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

EYE CONTACT:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lens. Do not use an eye ointment. Consult a physician if irritation persists after flushing eyes.

SKIN CONTACT:

If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

INGESTION:

DO NOT INDUCE VOMITING. If conscious give person 1 to 2 glasses of water. Seek immediate medical attention. If vomiting occurs spontaneously, lower head to avoid aspiration into the lungs. Contact a physician immediately.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: N/A
Flammable Limits: N/A
Autoignition Temperature: N/A

GENERAL HAZARD:

Chemical is not likely to support combustion.

FIRE FIGHTING INSTRUCTIONS:

No special instructions. Material is not combustible.

FIRE FIGHTING EQUIPMENT:

No special requirements.

HAZARDOUS COMBUSTION PRODUCTS:

None.

6. ACCIDENTAL RELEASE MEASURES**LAND SPILL:**

Avoid handling procedures which disperse dust. Dust contains free crystalline silica. Use water/wet methods when ever mixing materials or cleaning up a spill of the material.

WATER SPILL:

Material is a natural mineral product and will cause no adverse effects to the water system.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE: Ambient STORAGE PRESSURE: Atmospheric

GENERAL:

Store in a closed container.
Avoid contact with strong oxidizing agents such as fluorine, chlorine trifluoride, etc.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**ENGINEERING CONTROLS:**

Ventilate or enclose dust-producing processes.

PERSONAL PROTECTION:

In situations where airborne dust levels are significant or exceed exposure limits provide at minimum disposable dust masks rated for free silica exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure:	N/A	Vapor density:	N/A
Specific Gravity:	1.02	Evaporation Rate:	
Solubility in Water:	Negligible	Negligible	
pH:	N/A	Freezing point:	N/A
Boiling Point:	N/A	Odor:	None
Appearance:	Light Brown Granular		
Viscosity:	N/A	Physical state	Solid

10. STABILITY AND REACTIVITY**GENERAL:**

This product is stable and hazardous polymerization will not occur.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Reactive with strong oxidizing agents. Hydrofluoric acid dissolves silica to produce the corrosive gas silicon tetrafluoride. Acids react violently to produce heat. Nitro-organic compounds may react to form explosive salts. Maleic anhydride may react explosively. Phosphorus may form flammable products when heated. Magnesium may react to form hydrogen gas.

HAZARDOUS DECOMPOSITION:

None

11. TOXICOLOGICAL INFORMATION

Toxicity to Animals:

Chronic Effects on Prolonged exposure to airborne fine dust can cause silicosis. Silicosis is a Humans: disabling, nonreversible and sometimes fatal lung disease caused by over exposure to respirable crystalline silica. Overexposure to dust that contains microscopic particles of crystalline silica can cause scar tissue to form in the lungs, which reduces the lung's ability to extract oxygen from the air we breathe.

Carcinogenicity: The Sixth Annual Report on Carcinogens, 1991, U.S. Department of Health and Human Services, National Toxicology Program states: "There is sufficient evidence of the carcinogenicity of respirable crystalline silica as being probably carcinogenic in humans". NIOSH considers respirable silica to be a potential human carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not available.
BOD5 and COD: Not available.
Products of Biodegradation: N/A

13. DISPOSAL CONSIDERATIONS

This material is not defined as a hazardous material with respect to disposal based on flash point, pH, and component analysis. Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations.

14. TRANSPORT INFORMATION

DOT (Department of Transportation):
PROPER SHIPPING NAME:

15. REGULATORY INFORMATION

TSCA (Toxic Substance Control Act):
Not listed.
SARA Title III (Superfund Amendments and Reauthorization Act):
Not listed.
CERCLA (Comprehensive Response Compensation, and Liability Act):
Not listed.

16. OTHER INFORMATION

NATIONAL FIRE PROTECTION ASSOCIATION

Health - 3

Fire - 0

Reactivity - 0

THE INFORMATION RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OWN PARTICULAR USE. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.