



Material Safety Data Sheet

[OSHA 29 CFR 1910.1200]

ID # 219006
 SAND MIX
 VENDOR: QUIKRETE COMPANY
 VENDOR PART #: 1103

The QUIKRETE Companies
 2987 Clairmont Road, Suite 500
 Atlanta, Georgia 30329

Emergency Telephone Number
 (404) 634-9100

Information telephone Number
 (404) 634-9100

Date of Preparation: May 1995



SECTION I: PRODUCT IDENTIFICATION

Product Types: Quikrete Dry Packaged Portland Cement Based Products (Series 1)

Quikrete Product Name	Code #	Quikrete Product Name	Code #
Quikrete Concrete Mix	1101	Fence Post Mix	1005
Fiber Reinforced Concrete	1006	Latex Cement Powder	1131
Quikrete 5000	1007	Light Weight Concrete	1008
Fast Setting Concrete	1004	Rip Rap	1129
Sand Mix	1103	Vinyl Concrete Patcher	1133, 1132

Masonry Grouts (Coarse & Fine Core Fill) 1162-99, 1163

(Also applies to custom blended concretes and mortars including B-Crete)

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	CAS No.	PEL (OSHA) mg/M ³	TLV (ACGIH) mg/M ³
Silica Sand, crystalline	14808-60-7	10 %SiO ₂ + 2	0.1
Portland Cement	65997-15-1	5	5
Gypsum	10101-41-4 or 13997-24-5	5	5
Lime	01305-62-0	5	5
May contain one or more of the following:			
Fly Ash	58131-74-8	5	5
Limestone Dust	01317-65-3	5	5

Other Limits: National Institute for Occupational Safety and Health (NIOSH). Recommended standard maximum permissible concentration = 0.05 mg/M³ (respirable free silica) as determined by a full-shift sample up to 10-hour working day, 40-hour work week. See NIOSH Criteria for a Recommended Standard Occupational Exposure to Crystalline Silica.

QUIKRETE MATERIAL SAFETY DATA SHEET

page # 2

Product Types: Quikrete Dry Packaged Portland Cement Based Products (Series 1)

MSDS 95-J

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance: Gray to gray-brown colored powder. Some products contain coarse aggregate. (Quikrete Vinyl Concrete Patcher available in white)

Specific Gravity: 2.6 to 3.15	Melting Point: >2700 °F	Boiling Point: >2700 °F
Vapor Pressure: None	Vapor Density: None	Evaporation Rate: None
Solubility in Water: Slight	Odor: None	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability: Noncombustible and not explosive.

SECTION V - REACTIVITY DATA

Stability: Stable.

Incompatibility (Materials to Avoid): Contact of silica with powerful oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide, oxygen difluoride, may cause fires.

Hazardous Decomposition or By-products: Silica will dissolve in Hydrofluoric Acid and produce a corrosive gas - silicon tetrafluoride.

Hazardous Polymerization: Will Not Occur.

Condition to Avoid: Keep dry until used to preserve product utility.

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry: Inhalation, Skin, Ingestion

Acute Exposure: Product becomes alkaline when exposed to moisture. Exposure can dry the skin, cause alkali burns and effect the mucous membranes. Dust can irritate the eyes and upper respiratory system. Toxic effects noted in animals include, for acute exposures, alveolar damage with pulmonary edema.

Chronic Exposure: Dust can cause inflammation of the lining tissue of the interior of the nose and inflammation of the cornea. Hypersensitive individuals may develop an allergic dermatitis. Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Crystalline silica is classified as a probable human carcinogen.

Carcinogenicity listings:	NTP: Probable Carcinogen
	OSHA: Not listed as a carcinogen
	IARC Monographs: See Below
	California Proposition 65: Known carcinogen

QUIKRETE MATERIAL SAFETY DATA SHEET

page # 3

Product Types: Quikrete Dry Packaged Portland Cement Based Products (Series 1)**MSDS 95-J**

The National Toxicology Program (NTP), in its Sixth Annual Report on Carcinogens, identified respirable crystalline silica as a substance that is reasonably anticipated to be a human carcinogen. The International Agency for Research on Cancer (IARC), in vol. 42, 1997, concluded that there was sufficient evidence for the carcinogenicity of crystalline silica to experimental animals, and that there was limited evidence of the carcinogenicity of crystalline silica to humans. IARC Class 2A.

Signs and Symptoms of Exposure: Symptoms of excessive exposure to the dust include shortness of breath and reduced pulmonary function. Excessive exposure to skin and eyes especially when moist with water can cause caustic burns as severe as third degree.

Medical Conditions Generally Aggravated by Exposure: Individuals with sensitive skin and with pulmonary and/or respiratory disease, including, but not limited to, asthma and bronchitis, or subject to eye irritation, should be precluded from exposure. Exposure to crystalline silica or the disease silicosis is associated with increased incidence of scleroderma, Tuberculosis and possibly increased incidence of kidney lesions.

Emergency First Aid Procedures: Irrigate (flush) eyes immediately and repeatedly with clean water. Wash exposed skin areas with soap and water. If irritation or inflammation occurs seek prompt medical attention. For gross inhalation, remove person immediately to fresh air, give artificial respiration as needed. Get prompt medical attention.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Spills: If spilled, use dustless methods (vacuum) and place into closable container for disposal or use if not contaminated or wet. Use adequate ventilation.

Waste Disposal Method: Can be treated as a common waste for disposal in accordance with Federal, State and Local regulations.

SECTION VIII - CONTROL MEASURES/PERSONAL PROTECTION

Inhalation: In dusty environments, the use of an OSHA, MSHA or NIOSH approved respirator is recommended. Local exhaust can be used, if necessary, to control airborne dust levels.

Eyes: Wear tight fitting goggles

Skin: The use of barrier creams or impervious gloves, boots and clothing to protect the skin from contact is recommended. Following work, workers should shower with soap and water. Precautions must be observed because burns occur with little warning -- little heat is sensed.

Customers-users must comply with all applicable health and safety laws, regulations and orders covering silica.

NOTE: The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.