



Material Safety Data Sheet [OSHA 29 CFR 1910.1200]

The QUIKRETE® Companies
One Securities Centre
3490 Piedmont Road, Suite 1300
Atlanta, GA 30329

Emergency Telephone Number
(770) 216-9580

Information Telephone Number
(770) 216-9580

Revision: July 2003

MSDS C

SECTION I: PRODUCT IDENTIFICATION

Product Types: LIMESTONE AGGREGATES

<u>QUIKRETE® Product Name</u>	<u>Code #</u>	<u>QUIKRETE® Product Name</u>	<u>Code #</u>
AGRICULTURAL LIMESTONE	1111	MARBLE CHIPS	9906
PATIO PAVER LIMESTONE BASE	1150-49	ATHLETIC FIELD MARKER	1954
PELLETIZED LIME	1125-40		

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	CAS No.	PEL (OSHA) mg/M ³	TLV (ACGIH) mg/M ³
Limestone (Calcium Carbonate)	1317-65-3	5	5
Silica Sand, crystalline (1)	14808-60-7	<u>10</u> %SiO ₂₊₂	0.05 (respirable)

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.

(1) Low levels of crystalline Silica (0.01-1.5 %) may be found in this product either naturally occurring in the limestone materials or due to low levels of contamination which occurs in the manufacturing process.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance : White to off white crushed, ground or powdered solid

Specific Gravity: ~2.7	Melting Point: NA	Boiling Point: Decomposes to CaO
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.

Extinguishing Media: None required.



SECTION V - REACTIVITY DATA

Stability: Stable.

Incompatibility (Materials to Avoid): Reacts with strong acids to liberate carbon dioxide

Hazardous Decomposition or By-products: None

Hazardous Polymerization: Will Not Occur.

SECTION VI - HEALTH HAZARD DATA

The product contains silica particles that may be broken down to the respirable size range during shipping, handling, or use, and thus may be inhaled.

Route(s) of Entry: Inhalation

Health Hazards (Acute and Chronic): Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs and possibly cancer. There is evidence that exposure to respirable silica or the disease silicosis is associated with an increased incidence of Scleroderma, tuberculosis and kidney disorders.

Carcinogenicity listings: Crystalline silica, a trace component in the product is listed as follows:

NTP:	Known carcinogen
OSHA:	Not listed as a carcinogen
IARC Monographs:	Group 1 Carcinogen
California Proposition 65:	Known carcinogen

NTP: The National Toxicology Program, in its “Ninth Report on Carcinogens” (released May 15, 2000) concluded that “Respirable crystalline silica (RCS), primarily quartz dusts occurring in industrial and occupational settings, is *known to be a human carcinogen*, based on sufficient evidence of carcinogenicity from studies in humans indicating a causal relationship between exposure to RCS and increased lung cancer rates in workers exposed to crystalline silica dust (reviewed in IAC, 1997; Brown *et al.*, 1997; Hind *et al.*, 1997)

IARC: The International Agency for Research on Cancer (“IARC”) concluded that there was “*sufficient evidence* in humans for the carcinogenicity of crystalline silica in the forms of quartz or cristobalite from occupational sources”, and that there is “*sufficient evidence* in experimental animals for the carcinogenicity of quartz or cristobalite.” The overall IARC evaluation was that “crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is *carcinogenic to humans* (Group 1).” The IARC evaluation noted that “carcinogenicity was not detected in all industrial circumstances or studies. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs.” For further information on the IARC evaluation, see IARC Monographs on the Evaluation of carcinogenic Risks to Humans, Volume 68, “Silica, Some Silicates...” (1997)

Signs and symptoms of Exposure: Undue breathlessness, wheezing, cough, and sputum production.

Medical Conditions Generally Aggravated by Exposure: Pulmonary function may be reduced by inhalation of respirable crystalline silica. Also lung scarring produced by such inhalation may lead to a progressive massive fibrosis of the lung (silicosis) which may aggravate other pulmonary conditions and diseases and which increases susceptibility to pulmonary failure. Exposure to crystalline silica or the disease silicosis is associated with increased incidence of

PRODUCT TYPES: LIMESTONE AGGREGATES

MSDS C

scleroderma, Tuberculosis and possibly increased incidence of kidney lesions. Smoking aggravates the effect of exposure.

Emergency and First Aid Procedures: Eye Contact: Wash immediately with water. If irritation persists, seek medical attention. For gross inhalation, remove person immediately to fresh air, give artificial respiration as needed, seek medical attention as needed.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Spills: Use dustless methods (vacuum) and place into covered container for disposal or flush with water. Do not dry sweep. Wear protective equipment specified below.

Waste Disposal Method: The packaging and material may be land filled; however, material should be covered to minimize generation of airborne dust. This product is not classified as a hazardous waste under RCRA or CERCLA.

SECTION VIII - CONTROL MEASURES/PERSONAL PROTECTION

Inhalation: DO NOT BREATHE DUST. 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

WARN EMPLOYEES AND/OR CUSTOMERS OF THE HAZARDS AND REQUIRED OSHA PRECAUTIONS ASSOCIATED WITH THE USE OF THIS PRODUCT.

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