

Matrix

Material Safety Data Sheet
Effective Date 10/01

HMIS Ratings
Health-1
Flammability-0
Reactivity-0

SECTION 1 Hazardous Ingredients

COMPONENT	CAS#	OSHA PEL	TWA	ACGIH TLV	TWA	NIOSH TWA
Portland Cement	65997-15-1	5mg/m ³		10mg/m ³		
Silico Dioxide, Silica, Quartz	14808-60-7		10mg/m ³		0.1mg/m ³	0.05mg/m ³

OSHA ingredient permissible exposure limit: 18mg/m³

ACGIH ingredient TLV-TWA: 30 mppcf (10mg/m³)

Total dust: 5mg/m³

The 1974 NIOSH Criteria for a recommended Standard for Occupational Exposure to Crystalline Silica should be consulted for more detailed information.

Note: The Permissible Exposure Limits (PEL) reported above are the pre-1989 limits that were reinstated by OSHA June 30, 1993 following a decision by the 11th Circuit Court of Appeals. These PEL's are now being enforced by Federal OSHA. Be aware that more restrictive exposure limits may be enforced by some states, agencies, or other authorities.

SECTION 2 Physical Data

pH	1% solution (approx.)	12.0
Flash point	>200°F	Seta cc
Vapor Pressure	NA	
Viscosity	NA	
Evaporation rate	1 (ether=1)	
Physical State	Gray, dry powder	
Odor	Mild, cement	
Sp. Gr.	Bulk density (ambient)=	88lbs./ft ³
% solubility (water)	1% (leaves sediment)	

SECTION 3 Reactivity Data

Stable. Thermal decomposition yields oxides of Ca, S, N, Na, K and Halogens if present.

SECTION 4 Health Hazard Effects

Skin Effects	May cause skin irritation after contact. Hypersensitive individuals may develop an allergic response.
Eye Effects	Irritating to the eyes.
Respiratory Effects	May cause minor irritation to upper respiratory tract.
Inhalation	Breathing silica dust may not cause noticeable injury or illness even though Permanent lung damage may be occurring. Inhalation of dust may have serious Chronic health effects including Silicosis, Cancer, Scleroderma, Tuberculosis and Nephrotoxicity.

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SECTION 5 First Aid Instructions

Skin Contact	Remove contaminated clothing. Wash exposed area with a large quantity of soap solution or water for at least 15 minutes.
Eye Contact	Immediately flush with water for at least 15 minutes. Contact a physician immediately for additional treatment.
Inhalation Exposure	Remove victim from contaminated area to fresh air. Apply appropriate first aid treatment as necessary.
Ingestion	Do not feed anything by mouth to unconscious or convulsive victim. Dilute contents of stomach. Contact physician immediately.

SECTION 6 Spill, Disposal and Fire Instructions

Spill Instructions	Use dry clean up method that do not disperse dust into the air. Avoid breathing the dust.
Disposal Instructions	Dispose of in accordance with local, state, and federal regulations.
Fire Extinguishing Instructions	Material will not contribute to combustion. Foam or water may create a slippery condition. Contact with water may cause eventual reaction to form a hard, inert solid.

SECTION 7 Special Protective Equipment

Ventilation Equipment	Adequate ventilation.
Recommended Respiratory Protection	If ventilation is inadequate or significant product exposure is likely, use of a NIOSH/MSHA approved respirator is recommended.
Recommended Skin Protection	Rubber gloves and full coveralls
Recommended Eye Protection	Splash proof chemical goggles.

SECTION 8 Storage and Handling Precautions

Storage Instructions	Keep in a dry environment, off of floor.
Handling Instructions	Normal chemical handling.

SECTION 9 Federal Regulations

FIFRA (40 CFR) –EPA Reg. No. Not applicable.
OSHA (29 CFR Sec. 1910) – Safety and Health Standards-See Section 1.
FDA (21 CFR) Ingredients authorized under – None.

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