

Effective Date: 12/1/02 Revised 2/2/07

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Raw Pozzolan
PRODUCT SYNONYM: Pozzolan (diatomaceous earth plus volcanic ash)
PRODUCT USE: Cement Additive
MANUFACTURED BY: Western Pozzolan Corp
417-355 Scotts Road
Doyle, CA 96109
(530) 827-2549

SECTION 2. COMPOSITION and COMPONENT DATA

INGREDIENTS: Pozzolan is composed of the remains of diatoms from ancient seabeds imbedded in volcanic ash. Its approximate chemical composition is:

	Approximate %	CAS NO
Silica Dioxide	~70	7631-86-9
- Crystalline Silica (quartz)	~4	14808-60-7
- Amorphous Silica	~66	7631-86-9
Aluminum Silicate	~10	1Z174-11-7
Crystobillite	~2	14464-46-1
Heavy Metals	<1	1309-37-1
Respirable fraction	~5	na

SECTION 3. DESCRIPTION AND HAZARDS IDENTIFICATION

DESCRIPTION: Usually shipped in one ton Super Sacks, raw Pozzolan is a cream to tan colored diatomaceous earth in various sizes, ranging from 2-1/2" to powder. Do not mix, pour or work with this product in enclosed areas. Stay upwind when using outside.

POTENTIAL HEALTH EFFECTS

ABBREVIATIONS and DEFINITIONS: TLV= Threshold Limit Value set by the American Conference of Governmental Industrial Hygienists; MSHA PEL= permissible exposure limit set by the Mine Safety and Health Administration; OSHA PEL= exposure limit established by the Occupational Safety and Health Administration; mg/m3=milligrams per cubic meter of air; Respirable fraction=The size fraction smaller than approximately 4 ug (microns) in diameter.

INHALATION EXPOSURE LIMITS: This product contains more than 2% by weight of crystalline silica (quartz) and Crystobillite. Prolonged exposure to respirable crystalline silica has the potential to cause silicosis, a scarring of the lungs, which may be disabling. While individual susceptibility to a given exposure to respirable silica dust may vary, the risk of contracting silicosis and the severity of the disease is clearly related to the concentration and duration (usually years) of exposure. Exposure associated with proper uses of this product(s) should be well below the permissible exposure limits; however, employers are responsible for performing workplace testing to determine actual exposure levels. The following are some exposure limits that apply to crystalline silica and other components of this product.

<u>Component</u>	<u>TLV</u>	<u>PEL (MSHA)</u>	<u>PEL (OSHA)</u>
Total dust	10 mg/m ³	<u>(30 mg/m³)</u> (%SiO ₂ + 2).	<u>30 mg/m³</u> (%SiO ₂ + 2)
Respirable dust	3 mg/m ³	<u>10 mg/m³</u> (%SiO ₂ + 2)	<u>10 mg/m³</u> (%SiO ₂ + 2)
Respirable crystalline silica (quartz)	0.01 mg/m ³	0.1 mg/m ³ (proposed)	0.1 mg/m ³ (prop)

For crystobillite, use one half the values listed above to calculate exposures.

SKIN CONTACT: Prolonged handling may cause skin irritation.

EYE CONTACT: Dust can cause eye irritation.

INGESTION: Not applicable under normal conditions of use

SECTION 4. FIRST AID MEASURES

INHALATION EXPOSURE: Remove to fresh air. If bronchial irritation occurs, keep employee away from dust until irritation abates.

SKIN IRRITATION: Wash affected areas with soap and water. Use lotion before and after exposure.

EYE IRRITATION: Remove contact lenses. Flush eyes, including under eyelids, with large amounts of water. If irritation persists, get medical attention.

INGESTION: Not likely.

All health effects mentioned are chronic.

SECTION 5. FIRE FIGHTING MEASURES

FLASH POINT:	Not applicable.	HAZARDOUS COMBUSTION PRODUCTS:	None
FLAMMABLE LIMITS:	Not combustible.	AUTOIGNITION TEMPERATURE:	Not applicable.
		FIRE EXTINGUISHING MEDIA:	Not applicable.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Use dustless vacuum. Do not sweep. If needed, use water spray to wet down and minimize dust generation. Wear approved respirator, if necessary.

SECTION 7. HANDLING AND STORAGE

Do not work in closed space with visible dust present without a respirator. Use dust control techniques and practice good housekeeping. Do not use this product for sandblasting.

This product is incompatible with powerful oxidizing agents such as chlorine, fluorine and hydrofluoric acid.

Western Pozzolan Corp

**Raw Pozzolan
Material Safety Data Sheet 02-08**

Page 3 of 4

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide local exhaust or enclosures as necessary to meet OSHA requirements for dust control. Use wet methods, if appropriate, to reduce generation of dust.

SKIN PROTECTION: None required.

RESPIRATORY PROTECTION: Wear appropriate NIOSH/OSHA approved respirator with dust or particulate cartridges when permissible exposure limit to dust may be exceeded. Half face respirators have an assigned protection factor of 10; Full face respirators have an assigned protection factor of 50; Powered Air Purifying Respirators provide a protection factor of at least 100 and Supplied Air respirators provide a protection factor of at least 1000.

HAZARD COMMUNICATION: Workers should be aware of the hazards mentioned herein, how to control dust and be provided proper Personal Protection Equipment (PPE).

EYE PROTECTION: Recommend goggles or safety glasses for nuisance dust.

SYMPTOMS OF EXPOSURE: There are few symptoms of exposure; possibly coughing and throat irritation from prolonged or excessive exposure.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: No odor; brown or tan soil.

PHYSICAL STATE:	Solid	BOILING POINT:	Not applicable
PH:	~7.0	MELTING POINT:	~1,800°F
VAPOR PRESSURE:	Not applicable	SOLUBILITY IN WATER:	~0.5%
VAPOR DENSITY:	Not applicable	SPECIFIC GRAVITY:	~ 2.5

SECTION 10. STABILITY AND REACTIVITY

STABILITY: Crystalline silica is incompatible with halogens (chlorine, fluorine, etc.) and oxidizing agents. Silica will dissolve in Hydrofluoric Acid and produce a toxic gas.

CONDITIONS TO AVOID: Visible dust.

INCOMPATIBILITY (MATERIALS TO AVOID): Halogens, hydrofluoric acid and strong oxidizers.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

CRYSTALLINE SILICA: Crystalline silica is classified by the International Agency for Research of Cancer (IARC) as a human carcinogen Group 1. Respirable crystalline silica has been classified by the National Toxicology Program (NTP) as a substance which may reasonably be anticipated to be a carcinogen. Acute Silicosis may occur with exposures to very high concentrations of Respirable silica over a short period of time. Symptoms are coughing and shortness of breath. Acute Silicosis is a fatal disease.

SECTION 12. DISPOSAL CONSIDERATIONS

This product is not considered hazardous waste under Federal Hazardous Waste Regulations 40 CFR 261. Please be advised, however, state and local requirements for waste disposal may be different from federal regulations. Dispose of as inert solid in landfill or by other procedures in accordance with local, state and federal regulations.

SECTION 13. TRANSPORT INFORMATION

This product is not a DOT hazardous material.

SECTION 14. REGULATORY INFORMATION

OSHA: Dust generated from mixing, applying or otherwise using this product may be hazardous if inhaled.

TSCA: This product is not TSCA regulated.

SARA 313: None.

RCRA: If discarded in its purchased form, this product would not be a hazardous waste. Under RCRA, however, it is the responsibility of the product user to determine at the time of disposal whether a material containing this product or derived from this product should be classified as a hazardous waste.

CALIFORNIA PROP 65: Airborne particles of respirable crystalline silica are known by the State of California to cause cancer. The California Chronic Inhalation Reference Exposure Level (REL) for respirable crystalline silica is 0.03mg/m³.

CANADIAN WHMIS: This is not a controlled product under WHMIS.

SECTION 15. OTHER INFORMATION

HMIS RATING: Health – 1; Flammability – 0; Reactivity – 0

MSDS REVISION SUMMARY: This MSDS is in ANSI format, with important health and safety information in many sections. Read this information carefully before using or handling the product.

IMPORTANT: The information herein is believed to be accurate and has been compiled from reliable sources. Buyer assumes all risk of use, storage and handling of product, in compliance with label instructions and applicable federal, state and local laws and regulations. Western Pozzolan Corp and its subsidiaries make no warranty of any kind, express or implied, concerning the accuracy or completeness of the information herein. The implied warranties of merchantability and fitness for a particular purpose are specifically excluded.

Additional information can be obtained from www.u-s-silica.com.

