Material Safety Data Sheet

Amorphous Silicate Powder

Section 1a - Identification of Substance

Trade Name: Pozzotive®
Product Uses: Pozzolan for cement, mortar, concrete, stucco, cultured stone and other concrete related products
Revision Date: October 29, 2010

Section 1b - Company Address

Urban Mining Northeast, LLC.
270 North Avenue, Suite 200
New Rochelle, NY 10801
United States

Emergency Phone Number: (914) 355-9104
Technical Information: (914) 355-9104
Fax Number: (914) 654-8124

Section 2 - Composition and Ingredient Information

Ingredients[1]	Formula	Composition	OSHA PEL	ACGIH TLV
Silica-Alumina-Iron Oxide	SiO_2+Al_2O_3+Fe_2O_3	75%	Not Listed[2]	Not Listed[2]
Sodium & Potassium Oxide	Na_2O + K_2O	12%		
Calcium Oxide	CaO	11%		
Magnesium Oxide	MgO	1%		
Iron Oxide	Fe_2O_3	< 1%		
All other oxides		< 1%		

Notes: (1) The amorphous calcium aluminosilicate is a product obtained by the fusion of several inorganic substances containing primarily silica. The free oxides are **not** present and are fully combined in the fused silicate. The fused mass is quickly cooled to ambient temperature preventing crystallization. This MSDS covers the powders resulting from fine grinding of the fused silicate mass. (2) Exposure to this product may be covered by OSHA inert or nuisance dust limits of 15 mg/m^3 for total dust and 5 mg/m^3 for respirable portion.

Section 3 - Physical/Chemical Properties

Specific Gravity (H2O = 1): 2.6
Melting (Softening) Point: >800ºC
Boiling Point: N/A

Evaporation Rate: N/A
Solubility in Water: Insoluble
Water Reactive: Not Reactive

Appearance/Odor: White Powder, no Odor
Vapor Pressure (mm Hg and Temp): N/A
Vapor Density (Air - 1): N/A

N/A = Not Applicable

Section 4 - Fire and Explosion Hazard Data

Fire and Explosion Hazard Overview: This material is considered non-flammable and non-combustible

Auto Ignition Temperature: N/A
Flash Point and Method Used: N/A
LEL/UEL: N/A
Unusual Fire and Explosion Hazards: None
Special Fire Fighting Procedures: No special procedure required.
Extinguisher Media: No special media required.

N/A = Not Applicable

Section 5 - Stability and Reactivity

Stability: Stable.

Conditions to Avoid: None known.

Hazardous Decomposition Products: Unknown and not suspected.

Hazardous Polymerization: Not known to occur

Reactivity: When mixed with cement and concrete products in its intended use, the material reacts in the normal way as a "pozzolan" with the lime and alkalis present to form calcium silicate hydrates. Material is considered inert in polymer and resin systems. Avoid contact with strong acids, reducing agents, and oxidizers.

Section 6 - Health Hazard Identification

Emergency Overview: Not considered hazardous. Stable and non-flammable under normal industrial conditions.

Primary Routes of Entry: Inhalation, ingestion, skin absorption

Signs and Symptoms of Exposure: Eye, skin, or respiratory tract irritation

Acute: Dust may irritate eyes, skin, respiratory tract, mucous membranes. Dust hazard should not occur under normal use.

Chronic: None known

Section 7: Toxicological Information

Carcinogenicity: The following list indicates whether or not the indicated agency has listed the product as a carcinogen. NTP, Not listed; JARC, Not listed; OSHA, Not listed

LD50: Oral (g/kg), not available; Dermal (g/kg), not available; Inhalation(ppm, 8hrs), not available.

Section 8 - First Aid Measures

Medical Conditions Generally Aggravated by Exposure: May aggravate existing pulmonary condition if high dust situation is created. Dusting conditions should not occur under normal use.

Eye Contact: Immediately flush eyes with water to remove dust particles. If irritation develops seek medical attention.

Skin Contact: Wash skin with soap and water. If irritation develops, seek medical attention.

Inhalation: Immediately remove affected person to fresh air. If irritation develops, seek medical attention.

Ingestion: Rinse mouth out with water. Induce vomiting if significant quantities ingested. Seek medical attention.

Section 9. Exposure Control and Protective Measures

Respiratory Protection: If airborne dust exposure approaches the FLV or PEL (Section 2), use half-mask or full-face air purifying respirator equipped NIOSH or MSHA-approved high efficiency filters for protection against pneumoconiosis-roducting dust. An airline respirator may be required where dust levels are extremely high.

Protective Gloves: Limit contact with skin. Use rubber or cloth gloves as necessary.

Eye Protection: Wear goggles or face shield as appropriate. Avoid contact lenses.

Ventilation to be Used: Keep dust levels below PEL. Use general and local exhaust ventilation and dust collection systems to keep dust levels within acceptable limits.

Other Protective Clothing and Equipment: None normally required. Wear long sleeves and long pants to reduce skin contact. Use work gloves, goggles and face shield as necessary.

Hygienic Work Practices: Do not allow dust to get into eyes, to be inhaled, to be swallowed, or remain on skin if irritation occurs. Practice good personal hygiene. Wash or shower after use. Launder clothes as normal.

Section 10 - Accidental Release Measures

Steps to be Taken if Material is Accidentally Spilled or Released: Avoid creating airborne dust. Pick up with shovel or mechanical equipment. Wet methods and vacuuming maybe used on spills.

Sections 11 & 12 - Disposal and Transportation Considerations

Considered non-hazardous per EPA, RCRA 40CFR, Part 261, 1990. Handle as inert bulk material. Material may be disposed of as a non-hazardous solid waste consistent with state, federal and local disposal regulations. Disposal in a sanitary landfill is usually adequate. Material integrated into a cement/concrete products must be disposed of in accordance with applicable requirements for those products where they exist. Not regulated by the Department of Transportation (DOT).

Section 13 - Handling and Storage

Precautions to be Taken: Keep material dry in storage. No special handling required. Avoid creating airborne dust. Not an electrical conductor.
Other Precautions and/or Special Hazards: None

Section 14 - Ecological Information

Considered to be an inert solid waste, and no special precautions should be taken in case it is released or spilled. These products do not contain, nor are manufactured with, Class I or Class II Ozone-Depleting Chemicals (CFCs) identified in the Clean Air Act Amendment, 1990 List of Ozone Depleting Chemicals.

Section 15 - Additional Regulatory Information

United States: (a) EPA Toxic Substancves Control Act (TSCA): Carries no Chemical Abstracts Index name, CAS registry number or EPA code designation number. These products are "articles" as defined in Section 710.2(f) and are exempt from Sections 5 and 8(b) reporting requirements. (b) EPA SARA Title III: These products are considered to be exempt as they do not meet its health or physical hazards definitions nor contain any SARA 313 chemical ingredients in excess of EPA's deminimus concentrations. (c) OSHA Hazard Communication Standard: Subject to the applicable requirements of this regulation. (d) Right to Know Law: Per this MSDS revision date, these products are not known to contain chemical ingredients listed by the Pennsylvania, New Jersey or Massachusetts Right to Know Law in excess of amounts requiring reporting on such substances MSDS or labels. (e) California Proposition 65: No ingredient is listed. (f) Clean Air Act: No ingredient is listed.

Canada: These products are considered "articles" which are exempt from Canadian Environmental Protection Act (CEPA) reporting on the Domestic Substances Lists. They are also exempt from Workplace Hazardous Materials Information System (WHMIS) labeling & MSDS requirements.

European Economic Committee (EEC) Labeling Classification: These products do not meet the classification for a "dangerous substance" according to 67/548/EEC and 97/69 EC. The composition has been incorporated in the EINECS under CAS number 65997-17-3 as a glass oxide.
Japan: Chemical Substances Control Law: Exempt from this law.

Section 16 - Other Information

HMIS and NFPA Hazard Rating:	**Category**	**HMIS**	**NFPA**
	Acute Health (0-4)	0/1	0/1
	Flammability (o-4)	0	0
	Reactivity (0-4)	0	0

HMIS Personal Protection: To be supplied by user depending upon use.
NFPA Unusual Hazards: None

For further technical information on this product contact your Pozzotive® sales representative or the telephone number listed in Section 1b.

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