

# Michiels International, LLC

## Material Safety Data Sheet

# PERCOBOND ADMIXTURE

(425) 487-1151  
Information phone Number

Prepared: September 1, 2005

## SECTION 1 – MATERIAL IDENTIFICATION AND INFORMATION

### INGREDIENTS

Aluminosilicate glass  
Crystalline silica  
Iron Mineral Dusts  
Non-toxic Organic proprietary Liquid

#### Notes:

- (1) Material is derived from naturally occurring coal and a non-toxic organic proprietary liquid. May contain unburned carbon from coal which may be considered a nuisance dust (see note 2).
- (2) Not listed specifically by substance name. Exposure to aluminosilicate glass dust may be covered by OSHA inert or nuisance dust limits of 15 mg/m<sup>3</sup> for total dust and 5 mg/m<sup>3</sup> for respirable portion.
- (3) The presence of respirable crystalline silica has not been confirmed.
- (4) Iron minerals may include magnesium, hematite, and other iron oxides.

## SECTION 2 – PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling point	N/A	Melting Point	>2000 F.
Vapor pressure (mm Hg and Temperature)	N/A	Evaporation Rate	N/A
Vapor density	N/A	Water Reactive	Not Reactive
Solubility in Water	Negligible		

Appearance and odor – Dark Gray color, no odor; average particle size is 10-20 microns.

## SECTION 3 – FIRE AND EXPLOSION HAZARD DATA

Flammability:	Not Flammable
Flash Point:	N/A
Auto Ignition Temp:	N/A
Extinguishing Media:	Use Suitable for Surrounding Media
Special Fire-Fighting Procedures:	None
Unusual Fire And Explosion Hazards:	N/A

## SECTION 4 – REACTIVITY HAZARD DATA

**STABILITY:** Considered to be stable.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Decomposition products are unknown and not suspected.

**HAZARDOUS POLYMERIZATION:** Hazardous polymerization not known to occur.

**REACTIVITY:** Material is considered inert; avoid contact with strong acids, reducing agents, and oxidizers.

## SECTION 5 – HAZARDS IDENTIFICATION

### RELEVANT ROUTES OF EXPOSURE:

Inhalation

Ingestion

Skin Absorption

Material is not considered to be hazardous

\*Respirable crystalline silica is listed in IARC and NTP as a suspected carcinogen. Presence of crystalline silica in respirable dust has not been established.

### HEALTH HAZARDS:

**Acute** – Dust may irritate eyes, skin, respiratory tract, and mucous membranes. Dust hazard should not occur under normal usage.

**Chronic** – Pneumoconiosis

**Signs and Symptoms** – Eye, skin or respiratory tract irritation.

Note:

Existing pulmonary conditions may be aggravated if high dust conditions are created.

### CARCINOGEN LISTED IN:

NTP – Yes (crystalline silica)\*

IARC Monograph – Yes (crystalline silica)\*

OSHA - No

## SECTION 6 – FIRST AID MEASURES

**EYE CONTACT** – Immediately flush eyes thoroughly with water. Continue flushing for at least 15 minutes, including under upper and lower lids to ensure removal of all particles. Seek medical attention.

**SKIN CONTACT** – Wash skin with cool water and pH- neutral soap or a mild detergent intended for use on skin. If irritation develops seek medical attention.

**INHALATION** – Immediately remove victim to fresh air, if irritation develops immediately seek medical attention.

**INGESTION** – Immediately and thoroughly rinse mouth with cool water. If large amounts are ingested, induce vomiting.

## SECTION 7 – CONTROL AND PROTECTIVE MEASURES

**RESPIRATORY PROTECTION** – If airborne dust exposure is present use air purifying respirator equipped with suitable filters. An airline respirator may be required in instances where dust levels are extremely high.

**PROTECTIVE GLOVES** – Use rubber gloves to protect hands from contact where appropriate.

**EYE PROTECTION** – Use proper eye protection when necessary. Avoid contact lenses.

**PROTECTIVE CLOTHING AND EQUIPMENT** – None required, use of long sleeve shirts and long pants suggested to reduce contact with skin.

**HYGENIC WORK PRACTICES** – Avoid allowing dust to get into eyes, do not inhale or swallow, do not allow to stay on skin for prolonged periods of time. Wash or shower after use and launder clothes as usual.

## **SECTION 8 – PRECAUTIONS FOR SAFE HANDLING AND LEAK PROCEDURES**

**IF MATERIAL IS SPILLED** – Avoid creating excessive dusting. Pick up with shovel or, in cases of larger spills, mechanical equipment. Wet methods and vacuuming may also be used on spills.

**DISPOSAL METHODS** – 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.

**HANDLING AND STORAGE** – Keep material in a dry storage area. No special handling is required. Avoid creating dusting conditions.

\*No other precautions or special hazards follow.

\*Note 1: Information herein is based on data considered to be true and accurate as of the date prepared. No warranty or representation, express or implied, is made as to the accuracy or completeness of this data and safety information. No responsibility can be assumed by vendor for any damage or injury resulting from improper use, failure to follow recommended uses, or from any hazards inherent in the nature of the project.

\*Note 2: Some information contained in this MSDS derived from ISG Resources, Inc. FLY ASH MSDS.

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