

MATERIAL SAFETY DATA SHEET

Date prepared : June 29-02

1. PRODUCT/COMPANY IDENTIFICATION

Product Name:
FLEX-C-MENT™ Overlay Mix

Yoder & Sons LLC
1810-1 E Poinsett St. Ext.
Greer, SC 29651

2. EMERGENCY AND FIRST AID

EMERGENCY INFORMATION:

FLEX-C-MENT™ Overlay Mix is a gray cementitious mixture of cement, sand, & silica. When in contact with moisture in eyes or on skin, or when mixed with water, it becomes highly caustic (pH>12) and will damage or burn (as severely as third degree) the eyes or skin. Inhalation may cause irritation to the moist mucous membranes of the nose, throat and upper respiratory system or may cause or may aggravate certain lung diseases or conditions. Use exposure controls or personal protection methods described in Section 12.

EYES:

Immediately flush eye thoroughly with water. Continue flushing eye for at least 15 minutes, including under lids, to remove all particles. Call physician immediately.

SKIN:

Wash skin with cool water and pH-neutral soap or a mild detergent. Seek medical treatment if irritation or inflammation develops or persists. Seek immediate medical treatment in the event of burns.

INHALATION:

Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. Seek medical help if coughing and other symptoms do not subside. Inhalation of large amounts of Overlay Mix require immediate medical attention.

INGESTION:

Do not induce vomiting. If conscious, have victim drink plenty of water and call a physician immediately.

3. COMPOSITION INFORMATION

DESCRIPTION:

This product consists of a heterogeneous mixture of hydraulic cement, sand and silicas. The major compounds are:
Tricalcium Silicate
Dicalcium Silicate
Tricalcium Aluminate
Tetracalcium
Aluminoferrite
Calcium Sulfate
Silica Sand

4. HAZARDOUS INGREDIENTS

COMPONENT

Hydraulic Cement, Calcium sulfate, Iron oxide, Calcium carbonate, Magnesium oxide, Calcium oxide, Crystalline silica

TRACE INGREDIENTS:

Due to the use of ingredients mined from the earth's crust, trace amounts of naturally occurring, potentially harmful constituents may be detected during analysis.

5. HAZARD IDENTIFICATION

POTENTIAL HEALTH EFFECTS:

NOTE: Potential health effects may vary depending upon the duration and degree of exposure. To reduce or eliminate health hazards associated with this product, use exposure controls or personal protection methods as described in section 12.

EYE CONTACT:

(Acute/Chronic) Exposure to airborne dust may cause immediate or delayed irritation or inflammation of the cornea. Eye contact by large amounts of dry powder or splashes of wet Overlay Mix may cause effects ranging from moderate eye irritation to chemical burns or blindness.

SKIN CONTACT:

(Acute) Exposure to dry Overlay Mix may cause drying of the skin with consequent mild irritation or more significant effects attributable to aggravation of other conditions. Discomfort or pain cannot be relied upon to alert a person to hazardous skin exposure.
(Chronic) Dry Overlay Mix coming in contact with wet skin or exposure to wet Overlay Mix may cause more severe skin effects including thickening, cracking or fissuring of the skin. Prolonged exposure can cause severe skin damage in the form of chemical (caustic) burns.
(Acute/Chronic) Some individuals may exhibit an allergenic response upon exposure to Overlay Mix. The response may appear in a variety of forms ranging from a mild rash to severe skin ulcers.

INHALATION:

(Acute) Exposure to Overlay Mix may cause irritation to the moist mucous membrane of the nose, throat and upper respiratory system. Pre-existing upper respiratory and lung diseases may be aggravated by inhalation.

(Chronic) Inhalation exposure to free crystalline silica may cause delayed lung injury including silicosis, a disabling and potentially fatal lung disease, and/or cause or aggravate other lung diseases or conditions.

INGESTION:

(Acute/Chronic) Internal discomfort or ill effects are possible if large quantities are swallowed

CARCINOGENIC POTENTIAL:

Overlay Mix is not recognized as a carcinogen by the NTP, OSHA, or IARC. However, it may contain trace amounts of heavy metals recognized as carcinogens by these organizations. In addition, it also contains crystalline silica which IARC classifies as a known human carcinogen (Group I). The NTP, in its ninth Annual Report on Carcinogens, classified "silica crystalline (respirable)" as a known carcinogen. (See also Section 4 & 12)

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| 6. ACCIDENTAL RELEASE MEASURES |
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Contain material to prevent contamination of soil, surface water or ground water. Use dry clean-up methods that do not disperse dust into the air or entry into surface water. Material can be used if not contaminated. Place in an appropriate labeled container for disposal or use. Avoid inhalation of dust and contact with skin and eyes. Use exposure control and personal protection methods as described in Section 12.

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| 7. PHYSICAL/CHEMICAL DATA |
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| APPEARANCE/ODOR: Gray, odorless | PHYSICAL STATE: Solid(powder mix with sand and silica) |
| BOILING POINT: >1000°C | MELTING POINT: >1000°C |
| VAPOR PRESSURE: Not applicable | VAPOR DENSITY: Not applicable |
| pH (IN WATER): 12-13 (ASTM D 1293-95) | SOLUBILITY IN WATER: Slightly (0.1%-1.0%) |

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| 8. FIRE AND EXPLOSION |
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| FLASH POINT: None | LOWER EXPLOSIVE LIMIT: None |
| AUTO IGNITION: Not combustible | UPPER EXPLOSIVE LIMIT: None |
| FLAMMABLE LIMITS: Not applicable | SPECIAL FIRE FIGHTING PROCEDURES: Not applicable |
| EXTINGUISHING MEDIA: Not applicable | UNUSUAL FIRE AND EXPLOSION HAZARDS: None |

HAZARDOUS COMBUSTION PRODUCTS: None

9. STABILITY AND REACTIVITY DATA

STABILITY: Product is stable. Keep dry until used

CONDITIONS TO AVOID: Unintentional contact with water. Contact with water will result in hydration and produces (caustic) calcium hydroxide.

INCOMPATIBILITY: Wet Overlay Mix is alkaline. As such, it is incompatible with acids, ammonium salts and aluminum metal.

HAZARDOUS DECOMPOSITION: Will not occur

HAZARDOUS POLYMERIZATION: Will not occur

10. PRECAUTION FOR HANDLING AND STORAGE

HANDLING AND STORAGE: Keep dry until used. Handle and store in a manner so that airborne dust does not exceed applicable exposure limits. Use adequate ventilation and dust collection. Use exposure control and personal protection methods as described in Section 12.

11. TOXICOLOGICAL INFORMATION

See Section 5 for Hazard Identification. No recognized unusual toxicity to plants and animals.
Conditions aggravated by exposure: Eye disease, skin disorders and Chronic Respiratory conditions.

12. EXPOSURE CONTROLS/PERSONEL PROTECTION

RESPIRATORY PROTECTION: Use local exhaust or general dilution ventilation to control dust levels below applicable exposure limits. Minimize dispersal of dust into air. If local or general ventilation is not adequate to control dust levels below applicable exposure limits or when dust causes irritation or discomfort, use MSHA/NIOSH approved respirators.

EYE PROTECTION: Wear safety glasses with side shields or goggles to avoid contact with eyes. In extreme dusty environments and unpredictable environments, wear tight fitting unvented or indirectly vented goggles to avoid eye irritation or injury. Contact lenses should not be worn when handling cement or cement containing products.

SKIN PROTECTION: Wear impervious abrasion and alkali-resistant gloves, boots, long-sleeved shirt, long pants or other protective clothing to prevent skin contact. Promptly remove clothing dusty with Overlay Mix or clothing dampened with moisture mixed with Overlay mix, and launder before re-use. If contact occurs, wash areas contacted by material with pH neutral soap and water.

13. DISPOSAL CONSIDERATIONS

DISPOSAL:

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliances with applicable laws are the responsibility solely of the waste generator.