

MATERIAL SAFETY DATA SHEET

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SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Names and Synonyms (SEE SECTION 12 FOR ADDITIONAL PRODUCT IDENTIFICATION)	MONOKOTE HPM FIRE STOP MORTAR
Chemical Names and Family	Cementitious Mixture
Product Use	Fireproofing Product
Formula	Blend of Portland Cement, Styrene Polymer, Cellulose and Chopped Glass Filament
CAS# (Chemical Abstract Service)	Mixture-NA

Transportation/Hazard Classification

Proper Shipping Name	: Not applicable	TDG Class	: Non-hazardous
Hazard Class	: Non-hazardous		
Identification #	: Not applicable		
Label(s) Required	: Not applicable		
Surface Freight	: Wall Plaster		
Classification			
NPCA-HMIS Hazard Index	<ul style="list-style-type: none"> ▪ Health 1 ▪ Flammability 0 ▪ Reactivity 0 ▪ Personal Protection B, E (Section 8) 		

SECTION 2 - HAZARDOUS INGREDIENT AND MAJOR COMPONENT INFORMATION (SEE SECTION 11 FOR COMPLETE CHEMICAL NAMES)

Ingredient (Chemical Name, CAS#, Common Name)	% By Weight	Toxicity Data: LD ₅₀ & LC ₅₀ (See Section 9 for Exposure Limits)
Portland Cement CAS# 65997 - 15 - 1	60% Max	No Data Available
Vinyl Acetate Polymer CAS# 9003 - 20 - 7	40% Max	LD ₅₀ (oral, rat) >5000 mg/kg.
Chopped Continuous Glass Filament CAS#65997-17-3	~2%	No data available

SECTION 3 - PHYSICAL DATA/CHEMICAL CHARACTERISTICS

Boiling Point	: Not Applicable	Specific Gravity (H₂O=1)	: Not Applicable
Vapor Pressure (mm Hg.)	: Not Applicable	% Volatile	: Not Applicable
Vapor Density (AIR=1)	: Not Applicable	Evaporation Rate (Butyl Acetate=1)	: Not Applicable
Solubility in Water	: Slight	pH	: 11-13 for Portland Cement
Bulk Density (#/cu.ft)	: 52-56 pct		
Appearance and Odor	: Coarse, free flowing grey powder, no odor		
Odor Threshold	: Not Applicable		

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point	: Not Applicable	Flammable Limits:	
Method Used	: Not Applicable	LEL	N.A. UEL N.A.
NFPA Rating	: Not Applicable		
Extinguishing Med	: Not Applicable		
Special Fire Fighting Procedures	: None		
Unusual Fire and Explosion Hazards	: None known		

SECTION 5 - REACTIVITY DATA

Stable under normal conditions (yes or no) : YES

Conditions or Materials to avoid (which may react or cause instability):

Prior to welding or cutting, Monokote must be removed from steel surfaces in those immediate areas where exposure to excessive heat applied directly or through conduction from cutting or welding operations is possible.

Hazardous Decomposition or Byproducts:

As a result of incomplete combustion, Monomers (C₈H₈) and various Polymers (C₈H₈) may be given off. Temperatures in excess of 4,000°F may generate sulfur dioxide (SO₂). Upon complete combustion, Carbon Monoxide and Carbon Dioxide are released.

Hazardous Polymerization : Will not occur

Conditions to Avoid : Not applicable

SECTION 6 - HEALTH HAZARD DATA & TOXICOLOGICAL PROPERTIES

Routes of Exposure:

Inhalation Exposure to excessive airborne dust may cause irritation to the respiratory system resulting in coughing and sneezing, shortness of breath and wheezing. Exposure may also aggravate chronic respiratory such as asthma or bronchitis.

Skin and Eye May cause acute and/or chronic irritation of eyes and skin. Exposure to SKIN may produce "Cement Dermatitis" which is usually due to the alkaline and abrasive properties of cement dust and which can involve whole surface areas of the body. Exposure to cement may cause an allergic sensitivity. Prolonged contact with skin may cause burns, especially if skin or product is wet. This may occur without warning since little heat is sensed.

EYE contact may result in inflammation or burns.

Direct contact with the force of the sprayed product stream during application may physical injury.

Ingestion If swallowed, may cause irritation or burns to the lining of the mouth, esophagus and stomach.

Carcinogenicity According to NTP, IARC and OSHA: Not Applicable

SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES

EYE In case of eye contact, immediately flush eyes with plenty of water. Do not rub eyes. If blinking or tearing persists, see a physician.

SKIN In case of skin contact, flush with water.

INHALATION If inhaled, get fresh air immediately. If symptoms of irritation occur and persist, consult a physician.

INGESTION Adverse health effects are not expected if swallowed. Consult a physician if symptoms develop.

SECTION 8 - PREVENTIVE MEASURES

Warning Statements:

CAUTION! IRRITANT!

- Contains Portland Cement CAS# 65997-15-1, Vinyl Acetate Polymer CAS# 9003-20-7, Cellulose CAS# 65996-61-4, Chopped Continuous Glass Filament CAS# 65997-17-3 and Quartz CAS# 14808-60-7
- Inhalation of Portland Cement Dust may cause coughing and sneezing and may result in temporary breathing difficulties. Exposure may aggravate chronic respiratory conditions such as asthma or bronchitis. Repeated inhalation may cause long term and/or delayed lung injury.
- Cement is very irritating to eyes and skin, when wet or dry. Exposure may cause alkali burns resulting in damage to skin and eyes. Direct contact with the force of the sprayed product stream during application may cause physical injury.
- This product contains Aluminum Ore. Prolonged or repeated contact may cause irritation to the eyes, skin and respiratory tract.
- Wet material falling on floors, stairs or other surfaces will cause these surfaces to become slippery.

Precautionary Measures:

- Avoid creating and inhaling dust.
- Equip mixers with dust covers.
- Provide ventilation and respiratory protection.
- Avoid contact with skin and eyes.
- Wear skin and eye protection to avoid contact with dust or spray.
- Post "Slippery When Wet" signs where appropriate.
- Use Anti-slip surfaces on working platforms.

Respiratory Protection:

Wear a NIOSH-approved dust mask (Type TC-21C-XXX) to prevent exposure above the limits specified in Section 9.

Ventilation:

Local Exhaust areas	Exhaust fan may be necessary when mixing in enclosed areas.
Mechanical areas	Exhaust fans may be necessary when mixing in enclosed areas.
Special	Not applicable
Other	Not applicable

Skin Protection:

Work gloves, barrier creams and boots are recommended to prevent irritation or drying of skin.

Eye Protection:

Proper eye protection is required. At a minimum, safety glasses with side shields should be worn where exposures to excessive dust or spray is likely.

Other Protective Clothing or Equipment: Normal work clothes.

Work/Hygienic Practices:

Use bag opening and disposal procedures which minimize the release of dust.

Equip mixers with dust covers to minimize dust released during mixing cycle.

After each work shift, workers using products containing Portland cement should shower with soap and water. Work clothing should be changed daily.

All trades should minimize the release of dust during the removal of fire protection materials by:

- Wetting fireproofing materials using water, prior to its removal.
- Removing small areas of fireproofing at one time.
- Maintaining a clean worksite.

SECTION 9 – HAZARDOUS INGREDIENTS EXPOSURE LIMITS

Ingredients

Portland Cement CAS#: 65997-15-1	10 mg/m ³ – TWA as Total Dust	10 mg/m ³ – TWA	10mg/m ³ – TWA as Total Dust 5 mg/m ³ – TWA as Respirable Dust
Respirable Dust* CAS#: NA	5 mg/m ³ – TWA as Respirable Dust		
TOTAL DUST* CAS#: NA	15 mg/m ³ – TWA	TLV/TWA: 10 mg/m ³	None established

Observe precautions noted above. Sweep or shovel spilled material and place in suitable containers for recycle or disposal.

Waste of this product is not defined as hazardous according to the US EPA (40 CFR 261.3) Dispose of waste in accordance with all applicable regulations.

SECTION 10 – CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

Ventilation	General (i.e. natural or mechanically induced fresh air movements that maintain dust concentrations below recommended exposure limits).
Eye Protection	Safety glasses or goggles are recommended.
Skin Protection	Work gloves and/or barrier creams are recommended to prevent irritation or drying of skin.
Respiratory Protection	Wear a NIOSH-approved dust mask when exposure to dust is encountered.

SECTION 11 – PRECAUTIONS FOR SAFE HANDLING AND USE

PRECAUTIONS FOR SAFE HANDLING AND USE	Avoid generating dust. Store in a dry location preferably between 40 and 90°F. Follow label instructions for proper mixing.
SPILL PROCEDURES	Sweep up and place in suitable containers for recycle or disposal.

SECTION 12 – WASTE DISPOSAL METHODS

Consult with regulatory agencies or corporate personnel for disposal methods that comply with local, state, and federal health and environmental regulations.

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