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MATERIAL SAFETY DATA SHEET

SECTION 1. IDENTITY

MATERIAL NAME: Merlex Poly Prep EPS Bonding Cement

SECTION 2. HAZARDOUS INGREDIENTS

May contain one or more of the following:

Hazardous Components	OSHA PEL	ACGIH TLV	Other limits Recommended	% (optional)
Crystalline silica, CAS 14808-60-7	3.33 mg/ m ³	0.1 mg/ m ³	28 mppcf	1
Calcium hydroxide, CAS 1305-62-0	None	5 mg/ m ³		
Calcium carbonate, CAS 1317-65-3	None	10 mg/ m ³	30 mppcf	
Portland cements, CAS 65997-15-1	None	10 mg/ m ³	30 mppccf	

SECTION 3. PHYSICAL CHARACTERISTICS

BOILING POINT: Not applicable
VAPOR PRESSURE (mm Hg) Negligible
VAPOR DENSITY : Not applicable
pH: 12-13
SPECIFIC GRAVITY (H₂O =1): 2.5
APPEARANCE AND COLOR: Fine, powdered solid. Color depends upon pigment.
SOLUBILITY IN WATER: Slight
EVAPORATION RATE (BUTYL ACETATE = 1): Not applicable
MELTING POINT: Not applicable

SECTION 4. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): None
AUTO IGNITION TEMPERATURE: None
FLAMMABLE LIMITS: LEL: None
UEL:
EXTINGUISHING MEDIA: As appropriate for surrounding materials
SPECIAL FIRE FIGHTING PROCEDURES:
None- will not support combustion.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

SECTION 5. REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: High temperature

INCOMPATIBILITY (MATERIALS TO AVOID): Store away from acidic materials.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Calcium oxide, carbon dioxide

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: None

SECTION 6. HEALTH HAZARD ASSESSMENT

Route(s) of Entry: Inhalation: Yes Skin: Moderate Ingestion: Moderate

Health Hazards (Acute and Chronic):

Acute: In presence of moisture, contact w/ skin & eye will cause irritation & possible severe corrosion damage.

Chronic: Repeated or prolonged skin contact may cause dermatitis and chemical burns. Constant exposure to dust could contribute to silicosis.

Carcinogenicity: NTP? No. IARC Monographs? No. OSHA Regulated? No.

Additional Carcinogenicity Information (if any): No detectable asbestos.

Signs and Symptoms of Exposure: Irritation of the eyes and skin. Inhalation may cause coughing and sneezing.

Medical Conditions that may be aggravated by exposure: May aggravate pre-existing skin sensitivities or dermatitis. Inhalation may worsen allergies.

Emergency and First Aid Procedures:

Inhalation: remove from exposure and get prompt medical help.

Eye contact: Wash eyes immediately with running water from 15 minutes, including under eyelids. Get prompt medical attention.

Skin Contact: Wash exposed area with large amounts of water. Remove and wash contaminated clothing.

Ingestion: Immediately dilute by drinking large amounts of water or milk. Then neutralize by drinking dilute vinegar or fruit juices.

SECTION 7. EMERGENCY RESPONSE PROCEDURES.

Container size: Bulk

Step 1. Human Health Protection:

Respirator: NIOSH approved dust filter respirators.

Eyes: Tight fitting safety goggles.

Hands: Clean, dry rubber gloves.

Clothing: Clean, body-covering clothing.

Step 2. Containment and Control:

Use dry clean-up methods that do not disperse the material into the air. Spread a tarp over spill to prevent loss. Do not allow bulk material to enter storm drains or sanitary sewers.

Step 3. Decontamination:

After removal of bulk solid, rinse with large amounts of water. Residue may be flushed into a sanitary sewer with plenty of water.

Step 4. Hazardous Waste Packaging/ Shipping Requirements:

Material may be considered a corrosive solid by definition. Package in DOT approved drum and ship as Waste corrosive solid, n.o.s., UN 1759.

Waste Disposal Method: Waste material should be disposed of in an EPA-RCRA approved hazard waste landfill. Consider these alternatives if local agencies permit: a) Spread in a protected area to permit reaction with carbon dioxide in the air, b) neutralize w/ weak acid solution. Handle in a manner which avoids the creation of dust.

SECTION 8. SPECIAL PRECAUTIONS

Precautions to be taken in Handling and Storing:

Store in sealed containers at normal temperature. Keep dry until used. Do not allow contact with acids or strong oxidizers.

Other Precautions:

An eyewash station and safety shower should be readily available near the work area.

SECTION 9. CONTROL MEASURES

Respiratory Protection: NIOSH approved dust mask respirator.

Ventilation

Local Exhaust: To maintain dust concentration below established TLV.

Special: None.

Mechanical: May be necessary in dusty environments.

Other: None.

Protective Gloves: Any chemical resistant glove.

Eye Protection: Tight fitting safety goggles.

Other Protective Clothing or Equipment: Clothing that will cover arms and legs and prevent exposure of skin to dust.

Work/ Hygienic Practices: Wash thoroughly after handling. Clean contaminated clothing after each use.