



Merlex Poly Prep EPS Bonding Cement

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

PRODUCT NAME: Merlex Poly Prep EPS Bonding Cement
Recommended Use: Architectural coating material
Restriction on Use: Use only as directed

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SECTION 2. HAZARD(S) IDENTIFICATION

US GHS Classification:

Physical	Health
Not Hazardous	Skin Irritation category 2 Skin Sensitization Category 1 Eye Damage Category 1 Specific Target Organ Toxicity Single Exposure Category 3 (Respiratory Irritation) Specific Target Organ Toxicity Repeat Exposure Category 1 Carcinogen Category 1A

Labeling Elements:
Danger!



Hazard statement(s)

Causes skin irritation.
May cause an allergic skin reaction
Causes serious eye damage.
May cause respiratory irritation.
May cause cancer by inhalation.
Causes damage to lungs through prolonged or repeated exposure by inhalation.

Precautionary statement(s)

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical attention.
Take off contaminated clothing and wash it before reuse.
IF INHALED: Remove person to fresh air and keep

comfortable for breathing.
Wear protective gloves, skin protection and eye protection.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor.
Call a POISON CENTER or doctor if you feel unwell.
IF exposed or concerned: Get medical attention.
Store locked up.
Dispose of contents and container in accordance with local and national regulations.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Conc in %
Portland Cement*	65997-15-1	40-60
Sand (crystalline silica, quartz)	14808-60-7	40-60
Non-Hazardous Polymers	Proprietary	1-5

* Portland Cement consists mainly of calcium silicate compounds and other calcium compounds containing iron and aluminum. It may also contain gypsum, limestone, flyash, lime and crystalline silica (quartz). This material may also contain trace amounts of various naturally occurring metals such as chromium, iron, lead and arsenic.

The specific identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

Ingestion: Wash mouth with water. Do not induce vomiting. Seek immediate medical attention.

Skin Contact: Remove contaminated clothing and wash with plenty of soap and water. Get medical attention if irritation or rash develops. Launder contaminated clothing before reuse.

Eye Contact: Rinse immediately with plenty of water for 20 minutes, while lifting the eyelids. Get immediate medical attention.

Inhalation: Remove affected person from source of exposure. If symptoms of exposure persist, get medical attention.

Most important symptoms/effects, acute and delayed: Dust may cause eye and skin irritation or burns. Wet cement may cause eye and skin damage. May cause an allergic reaction. Inhalation of dust may cause mucous membrane and respiratory irritation. Prolonged overexposure to respirable crystalline silica may cause lung disease (silicosis) and increase the risk of lung cancer. Risk of cancer depends on duration and level of exposure.

Indication of immediate medical attention and special treatment, if necessary: If eye contact or ingestion occurs, get immediate medical attention.

SECTION 5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media: Use any extinguishing media that is appropriate for the surrounding fire.

Specific hazards arising from the chemical: This product is not combustible.

Special protective equipment and precautions for fire-fighters: Firefighters should always wear positive pressure self-contained breathing apparatus and protective clothing when fighting fires involving chemicals

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures: Wear appropriate protective clothing to avoid eye and skin contact including impervious gloves, safety goggles and respirator if needed.

Environmental hazards: Report spills and releases as required to appropriate authorities.

Methods and materials for containment and cleaning up: Carefully collect dry material. Avoid creating airborne dust. Scrape up wet product. Place into an appropriate container for re-use or disposal. Allow wet material to dry before disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling: Do not breathe dust. Prevent contact with the eyes and skin. Wear appropriate protective clothing and equipment handling this material. Wash thoroughly after handling. Immediately remove contaminated clothing and laundry before re-use. Do not eat, drink or smoke in the work area. Keep product dry until use.

Empty containers may contain product residue and may be hazardous. Follow all SDS precautions in handling empty containers.

Conditions for safe storage: Store in cool, dry area. Keep dry until ready to use. Protect from physical damage.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure guidelines:

Chemical Name	Exposure Limits
Portland Cement	5 mg/m ³ TWA (respirable) , 15 mg/m ³ TWA (total dust) OSHA PEL 1 mg/m ³ TWA ACGIH TLV (respirable)
Sand (crystalline silica, quartz)	10 mg/m ³ TWA OSHA PEL (respirable fraction)
	% Silica + 2
	30 mg/m ³ TWA OSHA PEL (total dust)
	% Silica + 2
	0.025 mg/m ³ TWA ACGIH TLV (respirable fraction)

Appropriate engineering controls: Use with adequate general or local exhaust ventilation to maintain exposures below applicable occupational exposure limits.

Individual protection measures, such as personal protective equipment:

Respiratory protection: If needed, a NIOSH approved respirator with dust cartridges (N95/P95 or N100/P100) may be used. For higher exposures, a supplied air respirator may be required. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134 and good Industrial Hygiene practice.

Skin Protection: Avoid skin contact. Wear impervious gloves if needed to avoid contact.

Eye Protection: Safety goggles recommended.

Other: Impervious clothing as needed to avoid skin contact and contamination of personal clothing. A safety shower and eye wash should be available in the immediate work area. If clothing becomes contaminated with dust or wet cement, remove immediately and launder before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Fine powdered solid, various colors.
Odor: No odor.

Odor threshold: Not available	pH: 12-13
Melting point/freezing point: Not applicable	Boiling point: Not applicable
Flash point: Not Applicable	Evaporation rate: Not applicable
Flammability (solid, gas): Not applicable	
Flammable limits: LEL: Not applicable	UEL: Not applicable
Vapor pressure: Not applicable	Vapor density: Not applicable
Relative density: Not available	Solubility: Insoluble in Water
Partition coefficient: n-octanol/water: Not applicable	Auto-ignition temperature: Not applicable
Decomposition temperature: Not applicable	Viscosity: Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions of use.
Chemical stability: Stable under normal conditions of use and storage.
Possibility of hazardous reactions: Crystalline silica will dissolve in hydrofluoric acid and produce silicone tetrafluoride.
Conditions to avoid: Unintentional contact with water will result in hydration and produce caustic calcium hydroxide.
Incompatible materials: Strong acids, ammonium salts and aluminum metal.
Hazardous decomposition products: None known.

SECTION 11. TOXICOLOGICAL INFORMATION

PRODUCT HEALTH HAZARD INFORMATION

Skin: Contact with dry product may cause dryness of the skin. Contact with wet product or presence of product on skin damp with sweat will cause irritation and possible serious burn. May cause an allergic skin reaction.

Eye: May cause severe irritation and possible serious eye injury. Dust may cause physical (mechanical) eye injury.

Inhalation: May cause irritation of the nose, throat and upper respiratory tract.

Ingestion: May cause irritation of the mouth and gastrointestinal tract.

Chronic Health Effects: Chronic overexposure to any respirable dust will cause adverse effects on the lung. Chronic overexposure to respirable crystalline silica may cause a progressive, disabling lung disease, silicosis which may be fatal. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. This disease is exacerbated by smoking. The International Agency for Research on Cancer (IARC) has determined that crystalline silica inhaled in the form of quartz is carcinogenic to humans (Group 1). The National Toxicology Program classifies respirable crystalline silica as known to be a human

carcinogen. The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (A2).

Acute Toxicity Values

Portland Cement: No toxicity data available
Crystalline Silica, Quartz: Oral rat LD50 >22,500 mg/kg
Non-Hazardous Polymers: No toxicity data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity:

Portland Cement: No toxicity data available
Crystalline Silica: 72 hr LC50 carp >10,000 mg/L
Non-Hazardous Polymers: No data available

Persistence and degradability: Biodegradation is not applicable to inorganic substances.

Bioaccumulative potential: Not expected to be bioaccumulative

Mobility in soil: No data available.

Other adverse effects: None known

SECTION 13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all local, state and federal regulations.

SECTION 14. TRANSPORT INFORMATION

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT		Not Regulated			

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable – product is transported only in packaged form.

Special precautions: None known.

SECTION 15. REGULATORY INFORMATION

Safety, health, and environmental regulations specific for the product in question.

SARA TITLE III INFORMATION:

Section 311/312 (40 CFR 370) Hazard Categories: Acute Health, Chronic Health

Section 313 (40 CFR 372): This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirement: None

Section 302 (40 CFR 355): This product does not contain chemicals listed as extremely hazardous chemicals under SUPERFUND Amendments and Reauthorization Act (SARA).

CERCLA Hazardous Substances (Section 103)/RQ: This product is not subject to CERCLA reporting requirements as it is sold. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

EPA TSCA: All of the components of this product are listed on the EPA TSCA Inventory.

California Proposition 65: This product contains respirable crystalline silica, which is known to the State of California to cause cancer. This product may also contain trace amounts of naturally occurring metals which are known to the State of California to cause cancer and/or reproductive harm.

SECTION 16. OTHER INFORMATION

NFPA Hazard Rating: Health: 1 Fire: 0 Reactivity: 0
HMIS Hazard Rating: Health: 2* Fire: 0 Reactivity: 0

SDS Revision History: All Sections revised – Updated to GHS format.

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NOTICE: The information presented herein is based on data considered to be accurate as of the date of preparation of this Material Safety Data Sheet. However, no warranty or representation, express or implied, is made as to the accuracy or completeness of the foregoing data and safety information. It is the responsibility of the user to determine the applicability of this information for his use.