

03/13/13

MATERIAL SAFETY DATA SHEET

TROWELABLE CERAMIC REPAIR

SECTION 1 – IDENTIFICATION

Trade Name: Trowelable Ceramic Repair

Product No.: ML410 – Part A & Part B

Supplier's Name: Metalink Polymer and Adhesives

Emergency Phone: 1-800-721-2448

Address: P.O. Box 209, Buna, TX 77612

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

HARDENER - PART A	CAS #	OSHA PEL	ACGIH TLV
Aliphatic Amines and Epoxy Modifiers	Mixture	N/A	N/A

BASE - PART B	CAS #	OSHA PEL	ACGIH TLV
Liquid Epoxy Resin	Mixture	N/A	N/A

SECTION 3 – HAZARD IDENTIFICATION

HARDENER – PART A	
Routes of Entry	Skin, eyes, ingestion, inhalation
Effects of Overexposure	May cause burns to skin and eyes, asthmatic reactions, skin sensitization, or other allergic reactions. Can result in permanent impairment of vision, even blindness. High concentrations of vapor can cause irritation to eyes and respiratory tract. Ingestion may cause gastrointestinal irritation or ulceration. May cause burns to mouth and throat.
Skin Absorption	A single prolonged exposure may be harmful. The LD50 for skin absorption in rabbits is 800 mg/kg.
Ingestion	Single dose oral toxicity is low. Oral LD50 for rats is 4340 mg/kg.
Other Effects	Did not cause cancer in long term animal studies. Birth defects are unlikely. In laboratory animals fed exaggerated doses, adverse effects occurred that were believed to be associated with an observed copper deficiency. However, exposures having no adverse effect on the mother should have no effect on the fetus. Results of in vitro (test tube) mutagenicity tests have been positive.

BASE – PART B	
Routes of Entry	Skin, eyes, ingestion, inhalation.
Effects of Overexposure	May cause irritation to eyes and skin and may aggravate allergy, eczema or other skin conditions.
Skin Absorption	Not established.
Ingestion	The LD50 for rats > 5000 mg/kg.
Other Effects	This material is not considered to be a carcinogenic by NTP, IARC or OSHA.

SECTION 4 – FIRST AID MEASURES

HARDENER – PART A	
Eyes	Immediate and continuous irrigation with flowing water for at least 30 minutes. Call physician.
Skin	Immediately flush skin with water for at least 15 minutes. Get medical attention for burns or if rash develops.
Inhalation	Remove to fresh air and administer oxygen if breathing is difficult.
Ingestion	Do not induce vomiting. Give large amounts of water or milk. Get medical attention.
Note to Physician	May cause tissue destruction leading to stricture. If lavage is performed, suggest endotracheal and/or esophagoscopy control. If burn is present, treat as thermal burn. No specific antidote. Excessive exposure may aggravate pre-existing asthma.

BASE – PART B	
Eyes	Immediate and continuous irrigation with flowing water for at least 15 minutes. Call physician.
Skin	Promptly wash skin with soap and water.
Inhalation	Remove to fresh air and administer oxygen if breathing is difficult.
Ingestion	Give large amounts of water. Consult physician.
Note to Physician	None.

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## SECTION 5 – FIRE FIGHTING MEASURES

HARDENER – PART A	
Flash Point	230° F (110° C) (PMCC)
Flammability Limits	LFL: N/A UFL: N/A
Auto-ignition Temperature	N/A
Extinguishing Media	CO <sub>2</sub> , water spray, dry chemical, foam
Special Fire Fighting Procedures	Toxic fumes (CO <sub>2</sub> , CO and aldehydes) will evolve when this material is involved in a fire. Self-contained breathing apparatus should be made available to fire fighters
Unusual Fire and Explosion Hazards	None

BASE – PART B	
Flash Point	> 200° F (93° C)
Flammability Limits	LFL: N/A UFL: N/A
Auto-ignition Temperature	N/A
Extinguishing Media	CO <sub>2</sub> , water spray, dry chemical, alcohol foam
Special Fire Fighting Procedures	Toxic fumes (CO <sub>2</sub> , CO and aldehydes) will evolve when this material is involved in a fire. Self-contained breathing apparatus should be made available to fire fighters.
Unusual Fire and Explosion Hazards	None

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

HARDENER – PART A	
Spills or Leaks	Scoop up material and return to containers if not contaminated, otherwise soak up with absorbent.

BASE – PART B	
Spills or Leaks	Scoop up material and return to containers if not contaminated, otherwise soak up with absorbent.

## SECTION 7 – HANDLING AND STORAGE

**Handling Precautions:** Wear protective clothing, including chemical gloves and splash goggles. Wash hands before eating, drinking, smoking or using toilet facilities. Use with adequate ventilation. Mixing Part A and B may produce enough heat to cause burns.

## SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

**Hand Protection:** Chemical resistant gloves.  
**Eye Protection:** Chemical goggles or safety glasses with side shields. Contact lenses should not be worn.  
**Skin Protection:** Wear clothing with long sleeve shirts to cover skin.  
**Respiratory Protection:** Generally, respiratory protection is unnecessary provided there is adequate ventilation. Otherwise, use a cartridge mask NIOSH approved for organic vapors is recommended. Avoid breathing vapors.  
**Ventilation:** Use good general mechanical ventilation and local exhaust. Avoid breathing vapors and dusts.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

HARDENER – PART A	
Boiling Point	482° F (250° C)
Melting Point	N/A
% Volatiles	0.00
Vapor Pressure (mm Hg)	N/A
Vapor Density (Air = 1)	N/A
Solubility in Water	Negligible
Specific Gravity (Water = 1)	N/A
Evaporation Rate (Butyl Acetate = 1)	< .01
Appearance and Odor	Black paste, Ammonia odor

BASE – PART B	
Boiling Point	> 400° F (200° C)
Melting Point	N/A
% Volatiles	0.00
Vapor Pressure (mm Hg)	N/A
Vapor Density (Air = 1)	N/A
Solubility in Water	Insoluble
Specific Gravity (Water = 1)	N/A
Evaporation Rate (Butyl Acetate = 1)	N/A
Appearance and Odor	Gray paste, Mild odor

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SECTION 10 – STABILITY AND REACTIVITY

HARDENER – PART A	
Stability	Material is stable Can auto-ignite at 561° F (294° C)
Incompatibility with other substances	Acids, oxidizing materials, halogenated organic aldehydes ketones and acrylates
Hazardous decomposition products	NO, CO, CO2
Hazardous polymerization	Will not occur
Conditions to avoid	None

BASE – PART B	
Stability	Material is stable
Incompatibility with other substances	Strong oxidizing agents
Hazardous decomposition products	CO, CO2, Aldehydes
Hazardous polymerization	Will not occur
Conditions to avoid	None

SECTION 11 – DISPOSAL CONSIDERATION

HARDENER – PART A	
Waste Disposal	Dispose of in accordance with federal, state and local regulations. Incineration is acceptable and the preferred method of disposal.

BASE – PART B	
Waste Disposal	Not a hazardous waste by RCRA criteria. Dispose of properly by federal, state and local regulations.

SECTION 12 – REGULATORY INFORMATION

HARDENER – PART A	
Regulatory Information	<p><b>U.S. Regulations:</b> Reviewed under SARA Section 311 and 312 and meets the following categories:</p> <ul style="list-style-type: none"> <li>An immediate health hazard</li> <li>A delayed health hazard</li> </ul> <p>No known toxic chemicals subject to requirements of Section 313.</p> <p><b>Canadian Regulations:</b> WHMIS designations for this product:</p> <ul style="list-style-type: none"> <li>D.1B. – D.2.A. - E</li> </ul>

BASE – PART B	
Regulatory Information	<p><b>U.S. Regulations:</b> Not a hazardous waste under RCRA CERCLA status – not listed. SARA Title III. This product does not contain a toxic chemical for routine annual “toxic chemical release reporting” under Section 313.</p> <p><b>Canadian Regulations:</b> WHMIS designation for this product:</p> <ul style="list-style-type: none"> <li>D.2.B.</li> </ul>

SECTION 13 – OTHER INFORMATION

**HARDENER – PART A**

HMIS Hazard Rating: Health 3  
Flammability 1  
Reactivity 0

**BASE – PART B**

HMIS Hazard Rating: Health 2  
Fire Hazard 1  
Reactivity 0

The information presented herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, safe handling and use remains the responsibility of the user. No suggestions for use are intended as, and nothing herein shall be construed as a recommendation to infringe any existing patents or violate any federal, state or local laws, rules, regulations or ordinances.