

MATERIAL SAFETY DATA SHEET

1. Product Information

Product Name: Epoxy Mortar Patch - Part A Pourable

Product Code: NPI060

HMIS CODES: H-1,F-1, R-0, P-B

2. Hazardous Ingredients/SARA III Information

Hazardous Components	CAS Number	OCCUPATIONAL EXPOSURE LIMITS			VAPOR PRESSURE WEIGHT	
		OSHA PEL	ACGIH TLV	OHSA STEL	mm Hg @ Temp	Percent
Modified Diglycidyl Ether of Bisphenol A	25068-38-6	None	None	None	1.0	356F
Alkyl Glycidyl Ether	68609-97-2	None	None	None	N/A	
Benzyl Alcohol	100-51-6	None	None	None	1.0	136F
Extender	Non Hazardous in Liquid Form	10mg/m3	10mg/m3	5mg/m3	N/A	

* No toxic chemical(s) subject to the reporting requirement of section 313 of Title III and of 40 CFR 372 are present.

3. Physical/Chemical Characteristics

Boiling Point: 200°F - 401°F **Specific Gravity (H2O = 1):** 1.4 **Vapor Density:** N/A **Evaporation Rate:** N/A **Solubility in Water:** Negligible **Appearance and Odor:** Viscous Liquid - negligible odor

4. Fire and Explosion Hazard Data

Flash Point: 200+°F **Method Used:** Seta Flash **Flammable Limits in Air by Volume:** Lower: N/A Upper: N/A
Extinguishing Media: Foam, Alcohol foam, CO2, dry chemical, water fog **Special Firefighting Procedures:** Do not enter confined fire area without full bunker gear including a positive pressure NIOSH approved self-contained breathing apparatus. Cool all fire exposed container with water.
Unusual Fire and Explosion Hazards: No unusual fire hazards known.

5. Reactivity Data

Stability: Stable **Conditions to avoid:** Avoid excessive heat or open flames. **Incompatibility (Materials to Avoid):** Can react vigorously with strong oxidizing agents and strong lewis acids or mineral acids. **Hazardous Decomposition for Byproducts:** CO2, Aldehydes, Acids. Reaction with some curing agents can generate large amounts of heat. **Hazardous Polymerization:** Will not occur

6. Health Hazard Data

Inhalation Health Risks and Symptoms of Exposure: No guide for control known, however, exposure to heated vapors can cause irritation to the nose, throat or mucous membranes.

Skin and Eye Contact Health Risks and Symptoms of Exposure: **Skin:** May cause irritation or allergic skin response. **Eyes:** May cause irritation but no corneal injury is likely.

Skin Absorption Health Risks and Symptoms of Exposure: Not likely to be absorbed in toxic amounts.

Ingestion Health Risks and Symptoms of Exposure: This material has a probable low acute oral toxicity.

Health Hazards (Acute and Chronic): Epoxy resins can cause sensitization by exposure through contact or high concentrations of vapor. Eyes: Injury is unlikely but stain for evidence of corneal injury.

Carcinogenicity: NTP? No IARC Monographs? No OSHA REGULATED? No No listed ingredients of this product are regulated as carcinogens.

Medical Conditions Generally Aggravated By Exposure: Respiratory conditions or other allergic response.

Emergency and First Aid Procedures: **Eyes:** Flush with water for at least fifteen minutes and consult a physician.

Skin: Contact will normally cause no more than irritation. But wash affected area with soap and water and remove contaminated clothing promptly.

Inhalation: Remove victim to fresh air area and administer oxygen if necessary.

Ingestion: Low in toxicity, induce vomiting only if large amounts of material are ingested, otherwise do not induce vomiting. In either case immediately consult with a physician.

7. Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled: Wear respirator and protective clothing, shut off the source at the leak. Remove excess with vacuum truck and take up the remainder with an absorbent such as clay and place in disposal containers. Flush area with water to remove residue.

Waste Disposal Method: Dispose of the material in a waste disposal site in accordance with local, state and federal laws. **Precautions to be taken in handling and storing:** Store in cool dry place. Seal all partially used containers. Wash with soap and water before eating, drinking, smoking or using toilet facilities. Properly label all containers. **Other precautions:** Avoid all skin contact. Avoid breathing vapors generated from the material. Observe conditions of good general hygiene and safe working practices. Wash all contaminated clothing prior to the reuse thereof.

8. Control Measures

Respiratory Protection: Use a NIOSH approved respirator as required to prevent over-exposure to vapor in accordance with 29 CFR 1910.134.

General exhaust is usually sufficient in lieu of NIOSH respirator. **Ventilation:** General exhaust is usually sufficient to control vapors and exposure hazards.

Protective Gloves: Impervious gloves - neoprene or rubber **Eye Protection:** Splash goggles or glasses with side shields **Other**

Protective Clothing or Equipment: Wear body covering clothing and other coverings as necessary such as apron and appropriate footwear to avoid contact with material. **Work/Hygienic Practices:** Observe good general hygienic practices

9. Hazardous Classification

Nonregulated

MATERIAL SAFETY DATA SHEET

1. Product Information

Product Name: Epoxy Mortar Patch - Part B Curing Agent

Product Code: NPI060

HMIS CODES: H-3,F-1, R-0, P-G

2. Hazardous Ingredients/SARA III Information

Hazardous Components	CAS Number	OCCUPATIONAL EXPOSURE LIMITS			VAPOR PRESSURE		WEIGHT Percent
		OSHA PEL	ACGIH TLV	OHSA STEL	mm Hg @ Temp		
Complex Polyaliphatic Amine System	Unknown	None	None	None	N/A		
Phenol	108-95-2	5 ppm	5 ppm	10 ppm	1.0	104F	5
M-Xylene Diamine	1477-55-0	None	.1 mg/m3	None	N/A		
Benzene-1,3-Dimethaneamine/ Phenol/Formaldehyde	57214-10-5	None	None	None	N/A		
Benzyl Alcohol	100-51-6	None	None	None	1.0	136F	
Extender	Non Hazardous in Liquid Form	20mg/m3	20mg/m3	20mg/m3	N/A		

* Indicates toxic chemical(s) subject to the reporting requirement of section 313 of Title III and of 40 CFR 372.

3. Physical/Chemical Characteristics

Boiling Point: 401°F **Specific Gravity (H2O = 1):** 1.4 **Vapor Density:** N/A **Evaporation Rate:** N/A **Solubility in Water:** Negligible
Appearance and Odor: Amber Viscous Paste with Amine Odor

4. Fire and Explosion Hazard Data

Flash Point: 200+°F **Method Used:** Seta Flash **Flammable Limits in Air by Volume:** Lower: N/A Upper: N/A
Extinguishing Media: Foam, Alcohol foam, CO2, dry chemical, water fog **Special Firefighting Procedures:** Toxic fumes will be evolved when this material is involved in a fire. Self-contained breathing apparatus should be available for fire fighters. Cook fire exposed containers with water.
Unusual Fire and Explosion Hazards: None known.

5. Reactivity Data

Stability: Stable **Conditions to avoid:** Avoid contact with open flames and all sources of ignitions and sparks. **Incompatibility (Materials to Avoid):** Avoid contact with strong oxidizing agents, mineral acids and epoxy resins in uncontrolled amounts. **Hazardous Decomposition for Byproducts:** CO, CO2, NOX **Hazardous Polymerization:** Will not occur

6. Health Hazard Data

Inhalation Health Risks and Symptoms of Exposure: High concentrations of vapor can cause irritation to the respiratory tract, nausea and dizziness.

Skin and Eye Contact Health Risks and Symptoms of Exposure: Will cause burns to the skin and eyes. High vapor concentrations can cause severe irritation to the eyes.

Skin Absorption Health Risks and Symptoms of Exposure: None known.

Ingestion Health Risks and Symptoms of Exposure: Liquid can cause severe damage to mucous membranes if swallowed.

Health Hazards (Acute and Chronic): Prolonged or repeated exposure may cause asthma and skin sensitization or other allergic responses.

Carcinogenicity: NTP? No IARC Monographs? No OSHA REGULATED? No No listed ingredients of this product are regulated as carcinogens.

Medical Conditions Generally Aggravated By Exposure: Respiratory conditions or other allergic response.

Emergency and First Aid Procedures: **Eyes:** Flush with water for at least fifteen minutes and consult a physician.

Skin: Flush skin with water for at least 15 minutes and remove all contaminated clothing immediately. Get medical attention if reddening or swelling occurs.

Inhalation: Remove victim to fresh air area and administer oxygen if necessary.

Ingestion: Do not induce vomiting. Dilute by giving water or milk to drink if victim is conscious. Get medical attention immediately.

7. Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled: Avoid contact with material. Wear the appropriate safety equipment. Stop spill at source, dyke area to prevent spreading. Pump liquid to salvage tank. Take up remainder with clay or other absorbent and place in disposal containers.

Waste Disposal Method: Dispose of the material in a waste disposal site in accordance with local, state and federal laws. **Precautions to be taken in handling and storing:** Avoid all skin contact. Avoid breathing vapors. Reseal partially used containers. Properly label all containers. Wash with soap and water before eating, drinking, smoking, or using toilet facilities. Observe conditions of good industrial hygiene and safe working practices. Other precautions: Mixed materials contain the hazards of all the components, therefore, read the MSDS of all components to become familiar with all hazards prior to using this product.

8. Control Measures

Respiratory Protection: Use a NIOSH approved respirator as required in the absence of proper environmental controls. For emergencies a self contained breathing apparatus or a full face respirator is recommended. **Ventilation:** Avoid breathing vapors. Ventilation must be sufficient to control vapors. **Protective Gloves:** Impervious gloves - neoprene or rubber **Eye Protection:** Splash goggles or glasses with side shields **Other Protective Clothing or Equipment:** Wear body covering clothing and other coverings as necessary such as apron and appropriate footwear to avoid contact with material. **Work/Hygienic Practices:** Observe good general hygienic practices

9. Hazardous Classification

DOT Regulated: Corrosive Liquid N.O.S. UN 1760, Packing Group III, Class 8

date of prepn: 1/01/01

Manufactured by: NPI in PA

Distributed by: Progressive Epoxy Polymers - 48 Wildwood Drive - Pittsfield, NH 03263 - Tel: 603-435-7199 - Fax: 603-435-7182