

PERMATEX INDUSTRIAL CORPORATION

07/02/97

ROCKY HILL, CONNECTICUT 06067
TELEPHONE: (860) 571-5100

MATERIAL SAFETY DATA SHEET

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Permatex(R) Fast Cure Epoxy Mixercups
82234

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Permatex(R) Fast Cure Epoxy Mixercups
 Item No.: 82234
 Product Type: Epoxy

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
RESIN		
Epoxy resin	25068-38-6	45-50
Aluminum hydroxide, hydrated	21645-51-2	45-50
TITANIUM DIOXIDE	13463-67-7	5-10
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	112945-52-5	1-3
HARDENER		
Aluminum hydroxide, hydrated	21645-51-2	45-50
Polymercaptan	Proprietary	30-35
Substituted aminophenol	90-72-2	5-10
Aromatic plasticizer	64741-81-7	5-10
STYRENE MONOMER*	100-42-5	3-5
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	112945-52-5	1-3
ETHYLENE GLYCOL*	107-21-1	1-3

* This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
RESIN			
Aluminum hydroxide, hydrated	10 mg/m3 dust	15 mg/m3 dust 5 mg/m3 respir.	None
TITANIUM DIOXIDE	10 mg/m3 dust	15 mg/m3 dust 5 mg/m3 resp	None
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	10 mg/m3 TWA	6 mg/m3 TWA	3 mg/m3 TWA resp. dust

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2. COMPOSITION, INFORMATION ON INGREDIENTS (continued)

HARDENER

Aluminum hydroxide, hydrated	10 mg/m3 dust	15 mg/m3 dust	None
		5 mg/m3 respir.	
STYRENE MONOMER	50 ppm TWA	100 ppm TWA	None
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	10 mg/m3 TWA	6 mg/m3 TWA	3 mg/m3 TWA resp. dust
ETHYLENE GLYCOL	None	50 ppm ceiling	None
		125mg/m3ceiling	
Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)	

RESIN

HARDENER

ETHYLENE GLYCOL	39.4ppm ceil ar	None
	100mg/m3 ceil a	

3. HAZARDS IDENTIFICATION

Toxicity: Eye and skin irritant. Repeated or prolonged exposure by ingestion may cause delayed effects involving the blood, gastrointestinal, nervous, and reproductive systems. May be a potential human skin carcinogen.

Primary Routes of Entry: Aromatic plasticizer: Skin, eyes, ingestion.

Signs and symptoms of Exposure: May cause dermatitis on prolonged contact in sensitive individuals.

Existing Conditions Aggravated by Exposure: None known

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen NTP IARC OSHA
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RESIN

Epoxy resin	ALG IRR	NO	NO	NO
Aluminum hydroxide, hydrated	IRR LUN	NO	NO	NO
TITANIUM DIOXIDE	AC4 IRR NUI	NO	NO	NO
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	NUI	NO	N/A	NO

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3. HAZARDS IDENTIFICATION

(continued)

HARDENER

Aluminum hydroxide, hydrated	IRR LUN	NO	NO	NO
Polymercaptan	No Data	NO	NO	NO
Substituted aminophenol	IRR	NO	NO	NO
Aromatic plasticizer	No Data	NO	NO	NO
STYRENE MONOMER	IRR LIV MUT NER	NO	2B	NO
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	NUI	NO	N/A	NO
ETHYLENE GLYCOL	AC4 CNS DEV IRR KID MET	NO	NO	NO

Abbreviations

N/A Not Applicable	2B Possibly carcinogenic to humans
AC4 ACGIH-Unclassifiable as human carc.	ALG Allergen
CNS Central nervous system	DEV Developmental
IRR Irritant	KID Kidney
LIV Liver	LUN Lung
MET Metabolic	MUT Mutagen
NER Nervous System	NUI Nuisance dust

4. FIRST AID MEASURES

Ingestion: Induce vomiting. Obtain medical attention.
Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention.
Skin Contact: Flush with water.
Eye Contact: Flush at least 15 minutes with water. Obtain medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: More than 200°F Method: Tag Closed Cup
Recommended
Extinguishing Agents: Carbon dioxide, foam, dry chemical
Hazardous Products formed by Fire or Thermal Decomp: Irritating organic vapor.
Unusual Fire or Explosion Hazards: None

Explosive Limits:
(% by volume in air) Lower 3.2% Ethylene glycol

(% by volume in air)Upper 15.3% Ethylene glycol^{CH2B}

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6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak: Soak up in an inert absorbent. Store in a partly filled, closed container until disposal.

7. HANDLING AND STORAGE

Safe Storage: Store below 100°F
(Contact Loctite Customer Service 1-800-243-4874 for shelf Life information)
Handling: Keep away from eyes. Avoid prolonged skin contact.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles recommended.
Skin: Rubber or plastic gloves recommended.
Ventilation: Sufficient to maintain vapor concentration below TLV.

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: RESIN: White Paste

Odor: Black Paste
RESIN: Mild

Boiling Point: HARDENER: Disagreeable
More than 300°F
pH: Not Applicable
Solubility in water: Slight
Specific Gravity: RESIN: = 1.68

Volatile Organic Compound (EPA Method 24) HARDENER: = 1.40
Resin: 0.47%; 7.9 grams per liter
Hardener: 14.3%; 200 grams per liter
Vapor Pressure: Less than 5 mm at 80°F
Vapor Density: Not available
Evaporation Rate (Ether = 1) Not available

10. STABILITY AND REACTIVITY

Stability: Stable
Hazardous Polymerization: Will not occur
Incompatibility: None
Conditions to Avoid: Not available

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10. STABILITY AND REACTIVITY

(continued)

Hazardous Decomposition
Products (non-thermal): None

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Incinerate following EPA and local regulations.
EPA Hazardous Waste Number: NH - Not a RCRA Hazardous Waste Material

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name: Unrestricted
Hazard Class or Division: Unrestricted
Identification Number: None
Marine Pollutant: None

IATA
Proper Shipping Name: Unrestricted
Class or Division: Unrestricted
UN or ID Number: None

15. REGULATORY INFORMATION

CA Proposition 65: warning: This product contains a chemical known to the State of California to cause cancer. Epichlorohydrin

16. OTHER INFORMATION

CH2B

Estimated NFPA(R) Code:
Health Hazard: HARDENER: 2

Fire Hazard: RESIN: 1
HARDENER: 1

Reactivity Hazard: RESIN: 1
HARDENER: 1

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16. OTHER INFORMATION

(continued)

Specific Hazard: RESIN: 1
Does not apply

Estimated HMIS(R) Code:
Health Hazard: HARDENER: 2

Flammability Hazard: RESIN: 1
HARDENER: 1

Reactivity Hazards: RESIN: 1
HARDENER: 1

Personal Protection: RESIN: 1
See Section 8.

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CH2B