

LOCTITE CORPORATION

10/20/98

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

MATERIAL SAFETY DATA SHEET

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DURO(R) Fiberglass Patch Kit
80265

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Item No.: 80265
Part No.: FK-98
Product Type: Epoxy

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
RESIN		
Epoxy resin	25068-38-6	85-90
Nonylphenol	25154-52-3	10-15
HARDENER		
Polyamide resin	68410-23-1	60-65
DIETHYLENETRIAMINE	111-40-0	15-20
PHENOL, 4,4'-ISOPROPYLIDENEDI-*	80-05-7	10-15
Epoxy resin	25068-38-6	5-10

* 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			
HARDENER			
DIETHYLENETRIAMINE	1 ppm skin 4.2mg/m3 skin	1 ppm TWA 4mg/m3	None
PHENOL, 4,4'-ISOPROPYLIDENEDI-	None	None	10 mg/m3
Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)	
RESIN			
HARDENER			

3. HAZARDS IDENTIFICATION

Toxicity: Eye and skin irritant. May irritate upper respiratory tract. May cause skin burns and corneal injury resulting in permanent impairment of vision including blindness. May cause

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3. HAZARDS IDENTIFICATION

(continued)

sensitization of skin and respiratory tract.
 Primary Routes of Entry: Ingestion, skin, inhalation
 Signs and Symptoms of Exposure: Eye or skin irritation or injury. Allergic responses such as sensitization or dermatitis.
 Existing Conditions Aggravated by Exposure: None known

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
RESIN				
Epoxy resin	ALG IRR	NO	NO	NO
Nonylphenol	ALG COR IRR	NO	NO	NO
HARDENER				
Polyamide resin	No Data	NO	NO	NO
DIETHYLENETRIAMINE	ALG IRR	NO	NO	NO
PHENOL, 4,4'-ISOPROPYLIDENEDI-	ALG IRR	NO	NO	NO
Epoxy resin	ALG IRR	NO	NO	NO

Abbreviations

ALG Allergen
 IRR Irritant
 COR Corrosive

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.
 Inhalation: RESIN: Not Applicable
 HARDENER: Remove to fresh air. If symptoms persist, obtain medical attention.
 Skin Contact: Wash immediately with soap and water. Do not use solvents for cleaning skin.
 Eye Contact: Flush copiously with water and get prompt medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: More than 200°F Method: Tag Closed Cup
 Recommended Extinguishing Agents: Carbon dioxide, foam, dry chemical
 Special Firefighting Procedures: Not available

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5. FIRE FIGHTING MEASURES

(continued)

Hazardous Products formed

by Fire or Thermal Decomp Before use, amine vapors may be evolved at high temperatures; oxides of carbon; unidentified organic compounds.

Unusual Fire or
Explosion Hazards: None

Explosive Limits:
(% by volume in air)Lower Not available
(% by volume in air)Upper Not available

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case
of spill or leak: Avoid skin contact. Scrape up as much as possible.
Clean residues with solvent or soap and water.

7. HANDLING AND STORAGE

Safe Storage: Store below 100°F
(Contact Loctite Customer Service 1-800-243-4874 for shelf life information)
Handling: Avoid skin contact. Keep away from eyes.
Do not breath vapors.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.
Skin: Rubber or plastic gloves.
Ventilation: Sufficient to maintain vapor concentration
below TLV.
Respiratory Not available

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellowish, viscous liquid.
Odor: Mild
Boiling Point: More than 300°F
pH: Not Applicable
Solubility in Water: Slight
Specific Gravity Resin 1.16, Hardener 0.98
Volatile Organic Compound
(EPA Method 24) 5.5% Resin
18.5% Hardener
Vapor Pressure: Less than 5mm
Vapor Density: Not available

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9. PHYSICAL AND CHEMICAL PROPERTIES (continued)

Evaporation Rate
(Ether = 1) Not Available

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous Polymerization: Will not occur
 Incompatibility: Strong oxidizers, acids, chlorinated hydrocarbons.
 Conditions to Avoid: Not available
 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: Consumer Commodity (Not more than four liters);
 Corrosive liquids, basic, organic, n.o.s.
 (Contains diethylenetriamine)
 (More than four liters)

Hazard Class or
 Division:

ORM-D (Not more than four liters);
 Class 8, Packing Group III (More than four liters)

Identification Number:

None (Not more than four liters);
 UN 3267 (More than four liters)

Marine Pollutant:

Nonylphenol

IATA

Proper Shipping Name: Corrosive liquids, basic, organic, n.o.s.
 (Contains diethylenetriamine)

Class or Division:

Class 8, Packing Group III

UN or ID Number:

UN 3267

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15. REGULATORY INFORMATION

CA Proposition 65: No Prop65 chemicals are known to be present.

16. OTHER INFORMATION

Estimated NFPA(R) Code:

Health Hazard: 2
 Fire Hazard: 1
 Reactivity Hazard: 1
 Specific Hazard: Does not apply

Estimated HMIS(R) Code:

Health Hazard: 2

Flammability Hazard: 1
Reactivity Hazards: 1
Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn.
HMIS is a registered trademark of the National Paint and Coatings Assn.

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