

# UNITED RESIN CORPORATION

100732

## MATERIAL SAFETY DATA SHEET

Manufacturer's Name and Address:

*United Resin Corporation  
4359 Normandy Court  
Royal Oak, MI 48073*

Emergency No.

(810) 649-8200

D.U.N.S. No.

050-204-9293

HEALTH HAZARDS:

DATE ISSUED: 8/24/95

HEALTH: 2  
FIRE: 1  
REACTIVITY: 0  
FLASH POINT: 245°F

METHOD USED: PMCC

PRODUCT NAME  
HARDENER 117

COMMON CODE:

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HAZARD MATERIAL DESCRIPTION, PROPER SHIPPING NAME, HAZARD CLASS:

Plastic Material - Liquid      NOIBN      Not Restricted

CHEMICAL FAMILY

FORMULA

Epoxy Hardener - Formulated

Proprietary

### HAZARDOUS INGREDIENTS

CAS #	% (optional)	CHEMICAL NAMES	TLV/PEL
09046-10-0	---	Polyoxy Propylene Amine	---

KEY: — LIMITS HAVE NOT BEEN ESTABLISHED

### PHYSICAL & CHEMICAL CHARACTERISTICS

Bolling Point:	260°C
Vapor Pressure:	<1 mm Hg @ 20° C
Vapor Density (air=1)	<1
Solubility in water:	Moderate
Specific gravity (H <sub>2</sub> O=1)	.96
Percent volatile by volume (%):	N/A
Evaporation rate: ( =1):	<0.01
Percent solid by weight (%):	100%
Appearance and odor:	Amber, Amine Odor, Liquid

## SPECIAL PROTECTION INFORMATION

Respiratory Protection:	Wear NIOSH approved respiratory protection where exposure limits are exceeded or in the absence of proper environmental control.
Ventilation:	Use only with adequate ventilation. Local exhaust is recommended. Mechanical exhaust can be used as a back up system.
Protective Gloves:	Chemical resistant gloves such as PVA.
Eye Protection:	NIOSH approved safety glasses or goggles with side shields.
Other Protective Clothing or Equipment:	Chemical resistant clothing as required to minimize skin contact.

## SPILL OR LEAK PROCEDURES

Steps to be Taken In Case Material Is Released or Spilled:	Use cautious judgment when cleaning spills. Small spills may be collected with absorbent material, such as clay or sand. Large spills should be diked and contained with absorbent materials. Flush area with water spray to remove residue. Dispose of flush legally.
Waste Disposal Methods:	Dispose in accordance with local, state and federal regulations.

## SPECIAL PRECAUTIONS

Precaution to be Taken In Handling and Storage:	Store at ambient temperatures in well ventilated area. Avoid sparks, open flames and extreme heat. Store separately from amine curing agents. Protect container from physical damage.
Other Precautions:	Container, even those that have been emptied, can contain product residues. Handle in accordance with good industrial practices. Avoid prolonged or repeated contact with skin. Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Launder contaminate clothing before use.

KEY — Limits have not been established

NA - Not Applicable

UI - Unavailable Information

The information supplied here is based on data we consider to be accurate. No warranty, expressed or implied is made. This information is offered solely for your consideration, interpretation and information.

## EFFECTS OF OVEREXPOSURE

- Skin Contact: Skin contact may result in irritation or chemical burn,
- Eye Contact: Product can cause severe eye irritation, swelling and/or chemical burn. Contact lenses should not be worn when working with this material.
- Inhalation: Vapor is irritating to the upper respiratory system and mucous membranes.
- Ingestion: Liquid causes damage to mucous membrane if swallowed.

### Primary Routes of Entry:

Inhalation:  Skin Contact:  Other (Specify) \_\_\_\_\_

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## EMERGENCY AND FIRST AID PROCEDURES:

- Inhalation: Remove victim to fresh air.
- Eyes: Flush eyes with generous amounts of water for a least 15 minutes. **GET MEDICAL ATTENTION IMMEDIATELY.**
- Skin: Immediately wash skin with soap and water. Wash contaminated clothing before reuse.
- Ingestion: If swallowed do not induce vomiting. Give large amounts of water or milk if available. Call a physician. Treatment based on judgment of the physician in response to reactions of the patient.

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## OCCUPATIONAL EXPOSURE LIMITS

OSHA Permissible Exposure Limit: OSHA limits have not been established for this product.

ACGIH Threshold Limit Value: ACGIH limits have not been established for this product.

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