

# MATERIAL SAFETY DATA SHEET

UPC 5400 Standard Epoxy Hardener Part B

FILE NO.:

MSDS DATE: 2/1/07

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Standard Epoxy Hardener Part B  
PRODUCT CODES: UPC 5400

MANUFACTURER: Universal Polymer Coatings  
DIVISION: Floor Coating  
ADDRESS: 737 W. Taft Avenue, Orange CA 92865

CHEMICAL SPILL  
EMERGENCY PHONE: 800-255-3924  
CHEMTEL PHONE: 800-255-3924  
OTHER CALLS: 714-279-1199  
FAX PHONE: 714-279-8070

PRODUCT USE: Floor Coating  
PREPARED BY: UPC

SECTION 1 NOTES: This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not Hazardous per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS:	Diethylenetriamine	(CAS# 111-40-0)	< 20 %
	Bisphenol A	(CAS# 80-05-7)	< 15 %
	Polyoxypropylenediamine	(CAS# 9046-10-0)	< 40 %
	Nonyl Phenol	(CAS#25154-52-3)	< 30 %

## SECTION 3: HAZARDS IDENTIFICATION

### POTENTIAL HEALTH EFFECTS:

EYES: May cause severe irritation with corneal injury, which may result in permanent impairment of vision, even blindness. Vapors may irritate eyes.

SKIN  
CONTACT: May cause severe injury to skin following prolonged or repeated contact, and may cause skin sensitization or other allergic responses.

SKIN  
ABSORPTION: A single prolonged exposure may result in the material being absorbed in harmful amounts. The LD50 for skin absorption is 1000 mg/Kg.

INGESTION: Single dose oral toxicity is low. The oral LD50 is 2330 mg/Kg in rats. Ingestion may cause gastrointestinal irritation or ulceration. Ingestion may cause burns of mouth and throat.

INHALATION: May cause respiratory sensitization or asthma in susceptible individuals. Excessive exposure may cause irritation to upper respiratory tract.

SYSTEMIC AND OTHER EFFECTS: Results of in vitro ("test tube") mutagenicity tests have been negative.

## SECTION 4: FIRST AID MEASURES

EYES: Immediate and continuous irrigation with flowing water for at least 30 minutes is required. Promptly seek medical attention.

SKIN: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing, preferably under a safety shower. Seek medical attention immediately. Avoid prolonged or repeated to skin. Wash thoroughly after handling.

INGESTION: Do not induce vomiting. Give large amounts of water or milk if available and transport to medical facility.

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**INHALATION:** Remove to fresh air if effect occurs. Consult medical personnel.

**NOTES TO PHYSICIANS:** Corrosive. May cause stricture. If lavage is performed, suggest endotracheal and/or esophagoscopy control. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

## SECTION 5: FIRE-FIGHTING MEASURES

**FLAMMABLE LIMITS IN AIR:**  
(% BY VOLUME)

UPPER LIMITS: N/A  
LOWER LIMITS: N/A

**FLASH POINT:**

F: 220° F  
C: 93° C

**METHOD USED:**

PMCC

**NFPA HAZARD RATING:**

4 = EXTREME	3 = HIGH	2 = MODERATE	1 = SLIGHT	0 = INSIGNIFICANT
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**NFPA HAZARD CLASSIFICATION:**

HEALTH: 2  
FLAMMABILITY: 1  
REACTIVITY: 0  
OTHER: N/A

**HMIS HAZARD CLASSIFICATION:**

HEALTH:  
FLAMMABILITY:  
REACTIVITY:  
OTHER:

**EXTINGUISHING MEDIA:** Water Fog, Alcohol Foam, CO2, or Dry Chemical

**FIRE FIGHTING PROCEDURES:**

Wear positive pressure SCBA and protective clothing.

**UNUSUAL FIRE AND**

**EXPLOSION HAZARDS:** None known. Treat as combustible.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**ACCIDENTAL RELEASE MEASURES:**

Large spill: Dike up and pump into appropriate containers.  
Small spill: Use noncombustible absorbent material/sand and shovel into suitable containers.

## SECTION 7: HANDLING AND STORAGE

**HANDLING AND STORAGE:**

Ground all transfer equipment. Hold bulk storage under a nitrogen blanket. This product should not come in contact with copper or copper-bearing alloys. Good general housekeeping procedure should be followed.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**EXPOSURE GUIDELINE(S):** N/A

**VENTILATION:**

Control airborne concentration below the exposure guideline. Use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

**RESPIRATORY PROTECTION:**

Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air purifying respirator.

**EYE PROTECTION:**

Use chemical goggles. If vapor exposure causes eye irritation, use a full face respirator. Eye wash fountain should be located in immediate work area.

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**SKIN PROTECTION:** Use protective clothing impervious to this material. Selection of specific items such as gloves, boots, apron, or full-body suit will depend on operation. Safety shower should be located in immediate work area. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse. Contaminated leather items, such as shoes, belts and watchbands, should be removed and destroyed.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE:** Pale, straw colored liquid

**ODOR:** Amine Odor

**PHYSICAL STATE:** Liquid

**BOILING POINT:**  
F: 390° F  
C: 198.89° C

**VAPOR PRESSURE (<1 mmHg):**  
@ F: 68° F  
C: 20° F

**VAPOR DENSITY (AIR = 1):** 3.56

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):**  
1.02

**SOLUBILITY IN WATER:** Completely soluble.

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## SECTION 10: STABILITY AND REACTIVITY

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**CONDITIONS TO AVOID (STABILITY):** Can react strongly with epoxy resins at elevated temperatures.

**INCOMPATIBILITY (MATERIAL TO AVOID):** Epoxy resins under uncontrolled conditions.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Nitrogen oxides when burned.

**HAZARDOUS POLYMERIZATION:** Will not occur.

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## SECTION 11: DISPOSAL CONSIDERATIONS

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**WASTE DISPOSAL METHOD:** Large quantities should be recovered. Collect small quantities in waste metal drums and seal for removal to an approved landfill, or incinerate in accordance with local, state, and federal regulations.

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## SECTION 12: TRANSPORT INFORMATION

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**U.S. DEPARTMENT OF TRANSPORTATION PROPER SHIPPING NAME:** Amines, Liquid, Corrosive, N.O.S.  
**HAZARD CLASS:** 8  
**ID NUMBER:** UN 2735  
**PACKING GROUP:** III  
**LABEL STATEMENT:** (Diethylenetriamine)

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## SECTION 13: REGULATORY INFORMATION

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**U.S. FEDERAL REGULATIONS:**  
**TSCA (TOXIC SUBSTANCE CONTROL ACT):**  
The components of this product are contained on the chemical substance inventory list.

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## CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

Requires notification of the National Response Center of release of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQ's) in 40 CFR 302.4. Components present in this product at level which could require reporting under the statute are:

Chemical Name	CAS Number	% By Weight	RQ
iNONE			

## SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

Sections 301-304 require emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355. Components present in this product at a level which could require reporting under this statute are:

Chemical Name	CAS Number	% By Weight
NONE		

## 311/312 HAZARD CATEGORIES:

Sections 311-312 require products be reviewed and applicable EPA Hazard Definitions be identified and made known.

## EPA HAZARD CLASSIFICATIONS:

Acute Hazard YES	Chronic Hazard YES	Fire Hazard NO
Pressure Hazard NO	Reactive Hazard NO	

## 313 REPORTABLE INGREDIENTS:

Section 313 requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all MSDSs that are copied and distributed for this material. Components present in this product at level which could require reporting under the statute are:

Chemical Name	CAS Number	% By Weight
BISPHENOL A	80-05-7	15%

## SECTION 15 NOTES:

If you are unsure if you must report more information, call the EPA Emergency Planning and Right-To-Know Hot Line: 800-535-0202 or 202-479-2449.

The concentrations shown in this document are maximum or ceiling levels (expressed in weight %, unless otherwise specified) to be used for regulations. Trade Secrets are indicated by "TS".

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## SECTION 14: DISCLAIMER

### DISCLAIMER:

The information herein is given in good faith, but no warranty expressed or implied is made. Universal Polymer Coatings, Inc. urges suppliers and users of this product to evaluate its suitability and compliance with local regulations as Universal Polymer Coatings, Inc. cannot foresee the nature of the final application nor final location of usage.