

# MATERIAL SAFETY DATA SHEET

UPC 5000-Series Epoxy Resin Part A

FILE NO.:

MSDS DATE: 2/1/07

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Epoxy Resin Part A  
PRODUCT CODES: UPC 5000  
  
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: Reaction products of Epichlorohydrin and Bisphenol A  
  
(CAS# 25085-99-8) Approximately 90%  
  
Alkyl Glycidyl Ether (CAS# 68609-97-2) Approximately 10%

## SECTION 3: HAZARDS IDENTIFICATION

### POTENTIAL HEALTH EFFECTS:

EYES: Minor transient irritation. No corneal injury likely.

### SKIN

CONTACT: May cause allergic skin reaction in susceptible individuals. Prolonged exposure not likely to cause significant skin irritation. Repeated exposure may cause skin irritation.

### SKIN

ABSORPTION: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. The LD50 for skin absorption in rabbits is 20,000 mg/kg.

INGESTION: Low acute oral toxicity; LD50 (rat) greater than 4000 mg/kg. No hazards anticipated from ingestion incidental to industrial exposure.

INHALATION: Vapors are unlikely due to physical properties. Not a problem unless heated to a high temperature.

### SYSTEMIC AND

### OTHER EFFECTS:

Except for skin sensitization, repeated exposures to low molecular weight epoxy resins of this type are not anticipated to cause any significant adverse effects. A poorly characterized sample of low molecular weight epoxy resin of this type has been reported to produce skin cancer in a highly sensitive strain of mice. However, high levels of impurities compromise the validity of the findings. Epoxy resin that is representative of current manufacturing processes is not believed to be a cancer hazard to humans. Results of mutagenicity tests in animals have been negative. Has been shown to be negative in some in vitro mutagenicity tests and positive in others.

## SECTION 4: FIRST AID MEASURES

EYES: Irrigation of the eye immediately with water for fifteen minutes is a good safety practice.

SKIN: Contact will probably cause no more than irritation. Wash off in flowing water or shower. Wash clothing before reuse.

INGESTION: Low in toxicity. No adverse effects anticipated by this route of exposure incidental to proper industrial handling.

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

**NOTES TO PHYSICIANS:** 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: 245° F  
C: 118.33° 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: 1  
FLAMMABILITY: 1  
REACTIVITY: 0  
OTHER: N/A

**HMIS HAZARD CLASSIFICATION:**

HEALTH:  
FLAMMABILITY:  
REACTIVITY:  
OTHER:

**EXTINGUISHING MEDIA:** Foam, CO<sub>2</sub>, or Dry Chemical

**FIRE FIGHTING PROCEDURES:**

Wear positive pressure SCBA

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

None

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**ACCIDENTAL RELEASE MEASURES:**

Soak up in absorbent material and collect in suitable containers. Residual may be removed using steam or hot soapy water.

## SECTION 7: HANDLING AND STORAGE

**HANDLING AND STORAGE:**

Practice good caution and personnel cleanliness to avoid skin and eye contact. Avoid breathing vapors of heated material.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**VENTILATION :** Good room ventilation usually adequate for most operations

**RESPIRATORY PROTECTION:**

None normally needed.

**EYE PROTECTION:**

Use chemical goggles.

**SKIN PROTECTION:**

For brief contact, no precautions other than clean body-covering clothing should be needed. Use impervious gloves when prolonged or frequently repeated contact could occur.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:**

Straw colored liquid

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ODOR: Faint Epoxy Odor

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PHYSICAL STATE: Liquid

BOILING POINT:

F: N/A  
C: N/A

VAPOR PRESSURE (mmHg):

F: N/A  
C: N/A

VAPOR DENSITY (AIR = 1):

F: N/A  
C: N/A

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

1.12-1.14

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## SECTION 10: STABILITY AND REACTIVITY

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CONDITIONS TO

AVOID (STABILITY): Excess heating over long periods of time degrades the resin.

INCOMPATIBILITY

(MATERIAL TO AVOID): Base.

HAZARDOUS

DECOMPOSITION

OR BY-PRODUCTS:

The by-products expected in incomplete pyrolysis or combustion of epoxy resins are mainly phenolics, carbon monoxide and water. The thermal decomposition products of epoxy resins therefore should be treated as potentially hazardous substances, and appropriate precautions should be taken.

HAZARDOUS

POLYMERIZATION:

Will not occur by itself but masses more than 1 pound of product plus aliphatic amine will cause irreversible polymerization with considerable heat buildup.

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## SECTION 11: DISPOSAL CONSIDERATIONS

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WASTE DISPOSAL

METHOD:

Burn in adequate incinerator or bury in an approved landfill; 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: Not Regulated By D.O.T.

HAZARD CLASS: N/A

ID NUMBER: N/A

PACKING GROUP: N/A

LABEL STATEMENT: N/A

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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.

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
NONE			

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## 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 NO	Chronic Hazard NO	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
NONE		

## 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

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### 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.