

**MATERIAL SAFETY DATA SHEET****PRODUCT NAME:** EPO-TEK 353ND, Part A**\*HMIS: HEALTH-2 FIRE-1 REACTIVITY-0****Carcinogen: NTP (No) IARC (No) OSHA (No)**

\* HMIS CODE ratings are estimated by Epoxy Technology.

**EPOXY TECHNOLOGY  
14 FORTUNE DRIVE  
BILLERICA, MA 01821****EMERGENCY PHONE:**  
US/CANANDA : 800-255-3924  
INT'L COLLECT: + 813-248-0585**DATE REVISED:** 04/14/2004  
**REV:** C

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**I. IDENTIFICATION & PHYSICAL DATA****PERCENT VOLATILE:** NA  
**BOILING POINT:** NA  
**VAPOR DENSITY:** >Air  
**APPEARANCE:** Clear liquid  
**ODOR:** Mild**VAPOR PRESSURE:** NA  
**SOLUBILITY IN WATER:** Low  
**EVAPORATION RATE:** NA  
**SPECIFIC GRAVITY:** 1.2

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**II. HAZARDOUS INGREDIENTS**

Bisphenol F

**CAS #**

28064-14-4

**WT %**

75-100%

**TOXICITY DATA**Acute Oral Effects (LD50): Rat > 10,000 mg/kg  
Acute Dermal Toxicity (LD50): Rabbit 3,000 mg  
Inhalation Toxicity (LD50): LCLO = 1.7 mg

Bisphenol F requires reporting according to OSHA Communication Standards under 29CFR, 1910.1200.

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**III. FIRE & EXPLOSION DATA****FLASH POINT:** >200F**EXTINGUISHING MEDIA:** Dry chemical, foam, carbon dioxide.**UNUSUAL FIRE & EXPLOSION HAZARDS:** Avoid fumes liberated by heat.**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self contained breathing apparatus and complete personal protective equipment. Remove all ignition sources. Use a water spray to cool fire exposed containers.

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**IV. REACTIVITY DATA****STABILITY:** Do not exceed 25 grams during mixing and curing.**HAZARDOUS POLYMERIZATION:** Will not occur if mix < 25 grams.**CONDITIONS TO AVOID:** Excessive heat**MATERIALS TO AVOID:** Strong oxidizing and reducing agents.**HAZARDOUS DECOMPOSITION PRODUCTS:** Fumes produced when heated to decomposition may include carbon monoxide, and carbon dioxide.

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The information and recommendations contained in this MSDS have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guarantee, or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what measures are necessary to safely use this product, either alone or in combination with other products, and to determine its environmental regulatory compliance obligations under applicable federal or state laws.

## V. HEALTH HAZARD DATA

EPO-TEK 353ND, Part A

### EFFECTS OF OVEREXPOSURE

**INGESTION:** May be moderately toxic. Ingestion can severely upset the gastric system

**INHALATION:** Hot vapors can cause headaches, nausea, dizziness, and respiratory irritation.

**SKIN CONTACT:** Can cause dermatitis.

**EYE CONTACT:** Irritating to the eyes. Can cause injury.

**CHRONIC/ACUTE EFFECTS OF EXPOSURE:** Can cause dermatitis and sensitization.

### EMERGENCY & FIRST AID PROCEDURES

**EYE CONTACT:** In case of eye contact, flush well with water. Get medical attention immediately.

**SKIN CONTACT:** In case of skin contact, clean with soap and water. Do not use solvents. Remove contaminated clothing.

**INGESTION:** Get medical attention immediately.

**INHALATION:** Remove employee to fresh air. If discomfort persists, get medical attention.

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## VI. SPILL OR LEAK PROCEDURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED:** Eliminate ignition sources. Use eye and skin protection. Place leaking containers in a well ventilated area. Absorb spillage with inert material and dispose.

**WASTE DISPOSAL METHOD:** Incinerate or use hazardous waste treatment procedures that are in accordance with federal, state and local regulations.

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## VII. SPECIAL PROTECTION INFORMATION

**RESPIRATORY PROTECTION:** Wear an approved respirator whenever high level exposure to vapors or mist is anticipated.

**VENTILATION:** Local exhaust recommended for exposure control.

**PROTECTIVE GLOVES:** Impervious gloves - neoprene or equivalent. A combination of barrier cream and gloves is recommended.

**EYE PROTECTION:** Chemical splash goggles recommended.

**OTHER PROTECTIVE EQUIPMENT:** For operations where contact can occur, use a face shield and impervious apron. A safety shower and eye wash facility should be available.

**VIII. SPECIAL PRECAUTIONS:** Avoid contact with skin and eyes. Avoid breathing vapors. Keep containers closed when not in use. Remove all contaminated clothing immediately and wash. Wash skin thoroughly with soap and water after handling. Solvents should not be used to clean skin because of increased penetration potential - protective skin oils can be dissolved by solvents.

**MATERIAL SAFETY DATA SHEET****PRODUCT NAME:** EPO-TEK 353ND, Part B**\*HMIS: HEALTH- 3 FIRE-1 REACTIVITY- 0****Carcinogen: NTP (No) IARC (No) OSHA (No)**

\* HMIS CODE ratings are estimated by Epoxy Technology.

**EPOXY TECHNOLOGY****14 FORTUNE DRIVE  
BILLERICA, MA 01821****EMERGENCY PHONE:**US/CANANDA : 800-255-3924  
INT'L COLLECT: + 813-248-0585**DATE REVISED:** 04/14/2004**REV: C**

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**I. IDENTIFICATION & PHYSICAL DATA****PERCENT VOLATILE:** NA  
**BOILING POINT:** NA  
**VAPOR DENSITY:** >Air  
**APPEARANCE:** Amber liquid  
**ODOR:** Mild**VAPOR PRESSURE:** NA  
**SOLUBILITY IN WATER:** NA  
**EVAPORATION RATE:** <BUAC  
**SPECIFIC GRAVITY:** 1.02

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**II. HAZARDOUS INGREDIENTS****CAS #****WT %**

Imidazole

288-32-4

25-50%

**TOXICITY DATA**

ACGIH (TWA) = Not Established

OSHA PEL (TWA) = Not Established

TLV = 2mg/m<sup>3</sup> (Established by Supplier)

Oral LD50 (Rat) = 965 mg/kg

Eyes &amp; Skin (Rabbit) = Severely Irritating, Corrosive.

Imidazole is the only hazardous ingredient that requires reporting per Sara Title III, under 311 and 312.

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**III. FIRE & EXPLOSION DATA****FLASH POINT:** >200F**EXTINGUISHING MEDIA:** Dry chemical, foam, carbon dioxide.**UNUSUAL FIRE & EXPLOSION HAZARDS:** Avoid fumes liberated by heat.**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self contained breathing apparatus and complete personal protective equipment. Remove all ignition sources. Use a water spray to cool fire exposed containers.

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**IV. REACTIVITY DATA****STABILITY:** Do not exceed 25 grams during mixing and curing.**HAZARDOUS POLYMERIZATION:** Will not occur if mix<25 grams.**CONDITIONS TO AVOID:** Excessive heat.**MATERIALS TO AVOID:** Strong oxidizing and reducing agents.**HAZARDOUS DECOMPOSITION PRODUCTS:** Fumes produced when heated to decomposition may include oxides of nitrogen, carbon monoxide, and carbon dioxide.

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## V. HEALTH HAZARD DATA

EPO-TEK 353ND, Part B

### EFFECTS OF OVEREXPOSURE

**INGESTION:** Ingestion can severely upset the gastric system.

**INHALATION:** Hot vapors can cause headaches, nausea, dizziness, and respiratory irritation, if inhaled.

**SKIN CONTACT:** Mildly irritating in rabbit dermal irritation studies. May cause dermatitis and skin sensitization in some individuals.

**EYE CONTACT:** Causes eye burns in rabbit irritation studies. Irritating to the eyes. Can cause injury.

**CHRONIC EFFECTS OF OVEREXPOSURE:** Repeated and/or prolonged exposures may result in: adverse

Respiratory effects( such as cough, tightness of chest or shortness of breath), adverse eye effects (such as

Conjunctivitis corneal damage), adverse eye effects (such as rash, irritation or corrosion).

### EMERGENCY & FIRST AID PROCEDURES

**EYE CONTACT:** In case of eye contact, flush with water for at least 15 minutes. Get medical attention immediately.

**SKIN CONTACT:** In case of skin contact, clean with soap and water. Do not use solvents. Remove contaminated clothing.

**INGESTION:** Get medical attention immediately.

**INHALATION:** Remove employee to fresh air. If discomfort persists, get medical attention.

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### VI. SPILL OR LEAK PROCEDURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED:** Eliminate ignition sources. Use eye and skin protection. Place leaking containers in a well ventilated area. Absorb spillage with inert material and dispose.

**WASTE DISPOSAL METHOD:** Incinerate or use hazardous waste treatment procedures that are in accordance with federal, state and local regulations.

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### VII. SPECIAL PROTECTION INFORMATION

**RESPIRATORY PROTECTION:** Wear an NIOSH approved respirator whenever high level exposure to vapors or mist is anticipated.

**VENTILATION:** Local exhaust recommended for exposure control.

**PROTECTIVE GLOVES:** Impervious gloves - neoprene or equivalent. A combination of barrier cream and gloves is recommended.

**EYE PROTECTION:** Chemical splash goggles recommended.

**OTHER PROTECTIVE EQUIPMENT:** For operations where contact can occur, use a face shield and impervious apron. A safety shower and eye wash facility should be available.

**SPECIAL PRECAUTIONS:** Avoid contact with skin and eyes. Avoid breathing vapors. Keep containers closed when not in use. Remove all contaminated clothing immediately and wash. Wash skin thoroughly with soap and water after handling. Solvents should not be used to clean skin because of increased penetration potential - protective skin oils can be dissolved by solvents

## REGULATORY INFORMATION

EPOXY TECHNOLOGY  
14 FORTUNE DRIVE  
BILLERICA, MA 01821  
TEL: (978) 667 – 3805

PRODUCT NAME: EPO-TEK 353ND  
DATE REVISED: 04/14/2004  
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### 1. SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right To Know Act of 1986 (40 CFR 372): None

### 2. TSCA Inventory Status

All the components of this product are listed on the TSCA Inventory.

### 3. RCRA Status

This product contains the following chemicals listed on the 40 CFR Part 261.33: None

### 4. CERCLA Status

This product contains the following chemicals listed on the 40 CFR Part 302.4: None

### 5. Transportation

Part A

Not Restricted

Part B

DOT/IATA Shipping Name: Imidazole  
Hazard Class: 8  
Packing Group: III  
ID Number: UN3267  
Transport Label(s): Corrosive, Liquid, Basic, Organic, N.O.S

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