

**MATERIAL SAFETY DATA SHEET****PRODUCT NAME:** EPO-TEK E2001 HV, 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:**  
(978) 667 3805**DATE ISSUED:** 10/29/01

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

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

Silver

7440-22-4

70-80%

See Ingredient Sheet 310200.

Silver Flake requires reporting according to Sara Title III, under section 313.

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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:** Stable**HAZARDOUS POLYMERIZATION:** Will not occur.**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, carbon dioxide, and oxides of nitrogen.

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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 E2001 HV, Part A

### EFFECTS OF OVER EXPOSURE

**INGESTION:** Contains materials that may be moderately toxic.

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

**SKIN CONTACT:** Can cause irritation and dermatitis.

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

**CHRONIC EFFECTS OF OVER EXPOSURE:** No specific information available.  
Can cause dermatitis and sensitization

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### 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.

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**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**

**EPOXY TECHNOLOGY  
14 FORTUNE DRIVE  
BILLERICA, MA 01821**

**PRODUCT NAME:** EPO-TEK E2001 HV, Part B

**EMERGENCY PHONE:**  
(978) 667 3805

**\*HMIS: HEALTH- 2 FIRE-1 REACTIVITY- 0  
Carcinogen: NTP (No) IARC (No) OSHA (No)**

**DATE ISSUED:** 10/29/01

\* HMIS CODE ratings are estimated by Epoxy Technology.

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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:** NA

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

There are no hazardous ingredients that require reporting per OSHA's Hazardous Communication Standards or under Sara Title III.

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**III. FIRE & EXPLOSION DATA**

**FLASH POINT:** > 200  
**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:** Stable                      **HAZARDOUS POLYMERIZATION:** Will not occur.

**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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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 safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under applicable federal or state laws.

## V. HEALTH HAZARD DATA

EPO-TEK E2001 HV, Part B

### EFFECTS OF OVEREXPOSURE

**INGESTION:** Ingestion may result in severe gastric disturbances. Gastrointestinal damage may result.

**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:** In a single dose this product may be toxic by ingestion. Irritation of the mouth, pharynx, and esophagus can develop following ingestion.

### 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 for organic vapors 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.

**REGULATORY INFORMATION**

**EPOXY TECHNOLOGY  
14 FORTUNE DRIVE  
BILLERICA, MA 01821  
Tel: (978) 667-3805**

**PRODUCT NAME:** EPO-TEK E2001 HV  
**DATE ISSUED:** 10/29/01

**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): Silver Flake as listed above.

**1. TSCA Inventory Status**

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

**2. RCRA Status**

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

**3. CERCLA Status**

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

**4. Transportation**

Part A

Not Restricted

Part B

Not Restricted

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The information contained herein is given in good faith. However, no guarantee or warranty of any kind expressed or implied is made with respect to this information.

**INGREDIENT SHEET****EPOXY TECHNOLOGY  
14 FORTUNE DRIVE  
BILLERICA, MA 01821****INGREDIENT CODE NUMBER:** 310200**EMERGENCY PHONE:**  
(978) 667 3805**\*HMIS: HEALTH- 1 FIRE- 0 REACTIVITY- 0****Carcinogen: NTP (No) IARC (No) OSHA (No)****DATE ISSUED:** 12/29/99

\* HMIS CODE ratings are estimated by Epoxy Technology.

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**I. IDENTIFICATION & PHYSICAL DATA****PERCENT VOLATILE:** <0.5 %  
**BOILING POINT:** NA  
**VAPOR DENSITY:** >Air  
**APPEARANCE:** Fine powder - Silver color  
**ODOR:** Mild**VAPOR PRESSURE:** NA  
**SOLUBILITY IN WATER:** Nil  
**EVAPORATION RATE:** NA  
**SPECIFIC GRAVITY:** 10.5

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

Silver flake

7440-22-4

100

**TOXICITY DATA**

ACGIH TLV (TWA) = 0.10 mg/M3

OSHA PEL (TWA) = 0.01 mg/M3

Silver appears in the Mass. RTK Hazardous substance list.

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**III. FIRE & EXPLOSION DATA****FLASH POINT:** >200F**EXTINGUISHING MEDIA:** Non Flammable**UNUSUAL FIRE & EXPLOSION HAZARDS:** None**SPECIAL FIRE FIGHTING PROCEDURES:** None

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**IV. REACTIVITY DATA****STABILITY:** Stable**HAZARDOUS POLYMERIZATION:** Will not occur.**CONDITIONS TO AVOID:** NA**MATERIALS TO AVOID:** NA**HAZARDOUS DECOMPOSITION PRODUCTS:** NA

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To the best of our knowledge, the information contained herein is accurate. Epoxy Technology Inc., however, assumes no liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

## V. HEALTH HAZARD DATA

Ingredient 310200

### EFFECTS OF OVER EXPOSURE

**INGESTION:** No specific information available.

**INHALATION:** Prolonged or severe exposure to dust may produce respiratory irritation. The use of NIOSH approved respirators and effective, local exhaust ventilation can minimize this type of exposure.

**SKIN CONTACT:** Prolonged or repeated contact may result in irritation.

**EYE CONTACT:** Irritating to the eyes. The use of chemical splash goggles will prevent this form of contact.

**CHRONIC EFFECTS OF OVER EXPOSURE:** Prolonged or repeated exposure to silver dust can result in Pneumoconiosis and/or permanent skin pigmentation (Argyria).

### 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:** Vacuum or sweep up dust. Follow good housekeeping procedures.

**WASTE DISPOSAL METHOD:** 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 a NIOSH approved respirator whenever high level exposure to air born particles 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 air born particles. Keep containers closed when not in use. Remove all contaminated clothing and wash.