

MATERIAL SAFETY DATA SHEET**PRODUCT NAME:** EPO TEK EE2082, 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/CANADA: 800-255-3924
INT'L COLLECT: + 813-248-0585**DATE REVISED:** 05/28/2003
REV: A

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

II. HAZARDOUS INGREDIENTS	CAS#	WT %	TOXICITY DATA
Silver Flake	7440-22-4	65-85%	See Ingredient Sheet 310200
Sulfur Epoxy	3878-43-1	< 50%	N/A

Silver Flake and Sulfur Epoxy require reporting per Sara Title III, under section 313 of the superfund amendments.

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.

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, and carbon dioxide.

The information and recommendations contained in this Material Safety Data Sheet 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.

EFFECTS OF OVER EXPOSURE

INGESTION: May cause severe gastric disturbance. May be moderately toxic.

INHALATION: Can cause respiratory irritation. This type of exposure is avoidable with the use of local exhaust ventilation.

SKIN CONTACT: Can cause dermatitis and irritation. This type of exposure can be avoided by the use of local exhaust ventilation, gloves, and chemical splash goggles.

EYE CONTACT: Irritating to the eyes. this type of exposure can be avoided by the use of local exhaust ventilation and chemical splash goggles.

CHRONIC EFFECTS OF OVER EXPOSURE: Can cause dermatitis and sensitization. See Ingredient Sheets 310200.

EMERGENCY & FIRST AID PROCEDURES

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

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

INGESTION: If swallowed, get medical attention immediately.

INHALATION: Can be irritating to respiratory tract. This type of exposure is avoidable with positive exhaust ventilation.

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.

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.

EFFECTS OF OVER EXPOSURE

INGESTION: Contains materials that may be moderately toxic. Ingestion can severely upset the gastric system.

INHALATION: Can cause respiratory irritation and sensitization. This type of contact can be avoided by the use of local, exhaust ventilation.

SKIN CONTACT: May cause dermatitis and sensitization. This type of exposure is avoidable by the use of local, exhaust ventilation, adequate clothing, gloves and chemical splash goggles.

EYE CONTACT: Irritating to the eyes. Can cause injury. This type of exposure is avoidable by the use of local, exhaust ventilation, adequate clothing, gloves and chemical splash goggles.

CHRONIC EFFECTS OF OVER EXPOSURE: May cause dermatitis and sensitization.

EMERGENCY & FIRST AID PROCEDURES

EYE CONTACT: In event of eye contact, flush well with water and 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: Can be irritating to respiratory tract.

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.

VII. SPECIAL PROTECTION INFORMATION

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

VENTILATION: Local exhaust ventilation recommended for exposure control.

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

EYE PROTECTION: This type of contact can be avoided through the use of Chemical splash goggles.

OTHER PROTECTIVE EQUIPMENT: For operations where contact can occur, use a face shield and impervious apron. A safety shower and eye must be located in close proximity to work and handling areas.

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: EE2082
DATE REVISED: 1/10/01
REV: A

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): Silver Flake as listed above.

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

DOT/IATA Shipping Name: Sulfur Epoxy
Hazard Class: 6.1
Packing Group: II
ID Number: UN2811
Transport Label(s): Toxic solid, Organic, n.o.s.

Part B

Not Restricted

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***HMIS: HEALTH- 1 FIRE- 0 REACTIVITY- 0****EMERGENCY PHONE:**
US/CANADA: 800-255-3924
INT'L COLLECT: + 813-248-0585**Carcinogen: NTP (No) IARC (No) OSHA (No)****DATE ISSUED:** 12/29/99

* HMIS CODE ratings are estimated by Epoxy Technology.

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

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.

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

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

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.

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.

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.