

MATERIAL SAFETY DATA SHEET

TRADE NAME: 8322C
 IDENTITY: 8322C
 CHEMICAL FAMILY: Modified Epoxy

SECTION I - MANUFACTURER'S INFORMATION FOR INFORMATION: 310 - 764 - 4600
 Ablestik Laboratories RECORD NUMBER: 25187
 20021 Susana Road PREPARED BY: Carolina Fabiero
 RANCHO DOMING CA 90221 DATE PREPARED: 08/25/97 PRIOR REVISION:
 TELEPHONE: 310-764-4600 24 HOUR EMERGENCY # CHEMTREC: 1-800-424-9300

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

AMINE
 CAS NO: * ACGIH TLV: Not Determ. PERCENTAGES:
 OSHA PEL: Not Determ. OTHER LIMITS: Not Determ. 1.0 to 10.0

EPOXY RESIN
 CAS NO: * ACGIH TLV: Not Determ. PERCENTAGES:
 OSHA PEL: Not Determ. OTHER LIMITS: Not Determ. 20.0 to 30.0

SILVER
 CAS NO: 7440224 ACGIH TLV: 0.1mg/m3 PERCENTAGES:
 OSHA PEL: 0.01mg/m3 OTHER LIMITS: Not Determ. 65.0 to 85.0
 * Information Withheld For Trade Secret

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS SPECIFIC GRAVITY: 2.7 (H2O = 1)
 BOILING POINT: NOT AVAILABLE VOC CONTENT: NOT AVAILABLE
 VAPOR PRESSURE: NOT AVAILABLE EVAPORATION RATE: Not Applicable
 VAPOR DENSITY (AIR=1): Not Applicable MELTING POINT: NOT APPLICABLE
 SOLUBILITY IN WATER: Insoluble
 APPEARANCE AND ODOR: Silver paste

SECTION IV - FIRE AND EXPLOSION HAZARD DATA FLAMMABLE LIMITS (LEL): NOT AVAILABLE
 FLASH POINT: NOT AV FLASH POINT METHOD: (UEL): NOT AVAILABLE
 Not applicable
 EXTINGUISHING MEDIA: Carbon dioxide, foam and dry chemical.
 SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and appropriate personal protective equipment to avoid contact.
 UNUSUAL FIRE AND EXPLOSION HAZARDS: Decomposition and combustion products may be toxic.

SECTION V - REACTIVITY DATA
 STABILITY: STABLE? Y
 CONDITIONS TO AVOID: Excessive heat. If this product is not used for thin bond line application, violent chemical reaction can result. Product should be used with caution upon curing. Vent curing ovens in accordance to all local, state and federal regulations.
 INCOMPATIBILITY (MATERIALS TO AVOID): Oxidizers, acids and alkalies.
 HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon monoxide, carbon dioxide, oxides of nitrogen and unidentified organics.
 HAZARDOUS POLYMERIZATION: MAY OCCUR? N
 CONDITIONS TO AVOID: Excessive heat. Violent chemical reaction may occur if large volumes of adhesive are cured. Product should be used with caution during curing and ovens should be vented to the outside.

SECTION VI - HEALTH HAZARD DATA

ROUTES OF ENTRY: EYE? N INHALATION? Y SKIN? Y INGESTION? N
 INHALATION: Irritating and/or toxic vapors may be released at elevated temperatures. Vapors may be irritating to respiratory system and nasal passages.
 SKIN: Frequent or prolonged contact may irritate the skin and cause dermatitis. May cause skin sensitization, a partial or whole-body dermatitic rash experienced after exposure, however, minimal.
 EYES: Irritating, and may injure eye tissue if not removed promptly.
 ABSORPTION (SKIN): Absorption through skin may be harmful.
 INGESTION: Irritating to mouth, throat and stomach. May cause gastric tract disorders and/or damage.
 HEALTH HAZARDS (ACUTE): See data above.
 HEALTH HAZARDS (CHRONIC): Prolonged or repeated contact can cause skin irritation and/or sensitization. Target organs: eyes, skin.

CONSIDERED CARCINOGENIC BY: NTP: N IARC? N OSHA? N IARC? N
Product is not considered to be carcinogenic by NTP, IARC, and OSHA.
SIGNS AND SYMPTOMS OF EXPOSURE: Prolonged or repeated contact can cause skin irritation and/or sensitization.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Allergy, eczema or skin conditions.
EMERGENCY AND FIRST AID PROCEDURES:
EYE CONTACT: Immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper & lower lids. Get prompt medical attention.
SKIN CONTACT: Flush exposed areas thoroughly with soap and water until all chemical is removed. Remove contaminated clothing and laundry before reuse. If irritation persists, get medical attention.
INHALATION: Remove to fresh air. Get medical attention if irritation persists.
INGESTION: Treat symptomatically and supportively. Get medical attention. DO NOT attempt to give anything by mouth to an unconscious person.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wipe up with solvent saturated material and collect in an appropriate container for disposal. Wear appropriate personal protective equipment.
WASTE DISPOSAL METHOD: Any disposal practice must be in compliance with local, state, and federal laws and regulations. Contact local or state environmental agency for specific rules.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store frozen at -40 degree C at all times prior to use. If the cured adhesive is to be sanded, wet sanding is recommended to minimize the airborne dust.
OTHER PERCAUTIONS: Avoid contact with skin, eyes and clothing. Good housekeeping is required. Avoid inhalation of vapors.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE): Use NIOSH approved organic vapor respirator if needed. If the cured adhesive is to be dry sanded or ground, use NIOSH approved mask for toxic dust.
VENTILATION LOCAL EXHAUST: Use adequate ventilation. Local exhaust is recommended when appropriate to control employee's exposure.
PROTECTIVE GLOVES: Rubber
EYE PROTECTION: Safety Goggles
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Protective equipment to cover exposed areas.
HYGENIC PRACTICES: Vent curing oven in accordance with all local, state and federal regulations.

SECTION IX - REGULATORY INFORMATION

U.N. HAZARD CLASS: Not Applicable

D.O.T. ID NO: Not Applicable

SARA/TITLE III - TOXIC CHEMICALS LIST:

This product contain a chemical subject to the reporting requirements of Section 313 of Title III of Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. Silver.....CAS# 744-02241.....< 70%

TSCA INVENTORY STATUS:

This product contains two ingredients which are exempted from TSCA inventory.

CALIFORNIA PROPOSITION 65:

W A R N I N G: This product contain the following chemicals known to the State of California to cause cancer:
Trace amounts of Glycidol; 1,3 Butadiene; 4,4' - Methylene Dianiline ; Formaldehyde and 4- Vinylcyclohexene

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