

MATERIAL SAFETY DATA SHEET

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TRADE NAME: Ablebond 2200D
 IDENTITY: Ablebond 2200D
 CHEMICAL FAMILY: Modified Diester Resin

SECTION I - MANUFACTURER'S INFORMATION
 Ablestik Laboratories
 20021 Susana Road
 Rancho Dominguez CA 90221
 TELEPHONE: 310-764-4600

FOR INFORMATION: 310 - 764 - 4600
 RECORD NUMBER:
 PREPARED BY: Carolina Fabiero
 DATE PREPARED: 03/20/2001
 REVISION: 11/26/02; section IX
 24 HOUR EMERGENCY # CHEMTREC: 1-800-424-9300

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

EPOXY RESIN			
CAS NO:	*	ACGIH TLV:	Not Determ.
OSHA PEL:	Not Determ.	OTHER LIMITS:	Not Determ.
		PERCENTAGES:	1.0 to 10.0
DIESTER RESIN			
CAS NO:	*	ACGIH TLV:	Not Determ.
OSHA PEL:	Not Determ.	OTHER LIMITS:	Not Determ.
		PERCENTAGES:	5.0 to 20.0
FUNCTIONALIZED URETHANE			
CAS NO:	*	ACGIH TLV:	Not Determ.
OSHA PEL:	Not Determ.	OTHER LIMITS:	Not Determ.
		PERCENTAGES:	5.0 to 15.0
SILVER			
CAS NO:	7440224	ACGIH TLV:	0.1mg/m3
OSHA PEL:	0.01mg/m3	OTHER LIMITS:	Not Determ.
		PERCENTAGES:	70.0 to 90.0

SPECIAL INSTRUCTIONS: Silver is not hazardous after it has been wetted into the mixture. If the cured adhesive is to be sanded or ground, wet sanding is recommended to eliminate airborne silver. Respiratory protection is also recommended.

* Information Withheld For Trade Secret

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS
 BOILING POINT: NOT AVAILABLE
 VAPOR PRESSURE: NOT AVAILABLE
 VAPOR DENSITY (AIR=1): NOT APPLICABLE
 SOLUBILITY IN WATER: Insoluble
 APPEARANCE AND ODOR: Silver Paste

SPECIFIC GRAVITY: 3.3 (H2O = 1)
 VOC CONTENT: NOT AVAILABLE
 EVAPORATION RATE: NOT AVAILABLE
 MELTING POINT: NOT APPLICABLE

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: NOT AVAILABLE
 FLASH POINT METHOD:
 Not Applicable

FLAMMABLE LIMITS (LEL): NOT AVAILABLE
 (UEL): NOT AVAILABLE

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: Heat prior to cure.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents, acids, and bases.

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. Avoid breathing of vapors or mists.

SKIN: Repeated or prolonged contact with skin could be severely irritating and may cause skin damage. May cause skin sensitization, a partial or whole-body dermatitic rash experience after exposure, however minimal.

EYES: Severely irritating. If not removed promptly, will injure eye tissue, which May result in permanent damage.

ABSORPTION (SKIN): Harmful if absorbed through skin.

INGESTION: Irritating to mouth, throat and stomach. May cause gastric tract Disorders and/or damage.

HEALTH HAZARDS (ACUTE): See Route(s) of Entry, above.

HEALTH HAZARDS (CHRONIC): Prolonged or repeated contact can cause skin irritation and/or sensitization. Target organs: eyes, skin. One ingredient in this product was found to be positive in one or more mutagenic assays.

CONSIDERED CARCINOGENIC BY: NTP: N IARC? N OSHA? N IARC? N

Product is not considered to be carcinogenic by NTP, ACGIH, 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 launder before reuse. If irritation persists, seek medical attention immediately.

INHALED: Remove to fresh air immediately. Seek medical attention if breathing is difficult.

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: Dispose in approved chemical disposal area or in a manner which complies with all local, state and federal regulations.

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 PRECAUTIONS: 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.

HYGIENIC PRACTICES: Vent curing oven to outdoors.

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 the following 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# 7440-22-4....< 90 %

TSCA INVENTORY STATUS:

This product is exempted from TSCA inventory list.

EINECS (EUROPE) INVENTORY STATUS:

This product is not listed in EINECS inventory list.

CALIFORNIA PROPOSITION 65:

W A R N I N G : This product contains the following chemicals known to the state of California to cause cancer: Benzene, Epichlorohydrin and Methylene Chloride are present in trace amounts.

W A R N I N G : This product contains the following chemicals known to the state of California to cause birth defects or other reproductive harm: Benzene, Epichlorohydrin and Toluene are present in trace amounts.

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