

MATERIAL SAFETY DATA SHEET

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TRADE NAME: Ablebond 2300
IDENTITY: 2300
CHEMICAL FAMILY: Modified Diester Resin

SECTION I - MANUFACTURER'S INFORMATION

Ablestik Laboratories
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24 HOUR EMERGENCY # CHEMTREC: 1-800-424-9300

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

POLYMERIC RESIN

CAS NO:	*	ACGIH TLV:	Not Available	PERCENTAGES:
OSHA PEL:	Not Available	OTHER LIMITS:	Not Available	1.0 to 5.0

DIESTER RESIN

CAS NO:	*	ACGIH TLV:	Not Available	PERCENTAGES:
OSHA PEL:	Not Available	OTHER LIMITS:	Not Available	10.0 to 30.0

ACRYLATE RESIN

CAS NO:	*	ACGIH TLV:	Not Available	PERCENTAGES;
OSHA PEL:	Not Available	OTHER LIMITS:	Not Available	5.0 to 10.0

SILVER

CAS NO:	7440224	ACGIH TLV:	0.1mg/m3	PERCENTAGES:
OSHA PEL:	0.01mg/m3	OTHER LIMITS:	Not Available	60.0 to 100.0

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: Gray Paste

SPECIFIC GRAVITY: 3.34 (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

FLAMMABLE LIMITS (LEL): NOT AVAILABLE

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: 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.

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. This product has not been tested for mutagenicity; however, lab experiments with one of the components have shown mutagenic effects. The relevance of these findings to toxicological impact on humans is unknown.

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....< 80 %

TSCA INVENTORY STATUS:

This product contains one ingredient, which is exempted from TSCA inventory.

CALIFORNIA PROPOSITION 65:

Warning: This product contains the following chemical known to the state of California to Cause cancer:

Benzene is present in trace amounts.

Warning: This product contains the following chemical known to the state of California to cause birth defects or other reproductive harm:

Toluene and Benzene are present in trace amounts.

DISCLAIMER: THE INFORMATION GIVEN AND THE RECOMMENDATIONS MADE HEREIN APPLY TO OUR PRODUCT(S) ALONE AND NOT IN COMBINATION WITH ANY OTHER PRODUCT(S). SUCH INFORMATION AND RECOMMENDATIONS ARE BASED ON OUR RESEARCH AND ON DATA FROM OTHER RELIABLE SOURCES AND ARE BELIEVED TO BE ACCURATE BUT NO GUARANTEE OF THEIR ACCURACY IS MADE. IN EVERY CASE WE URGE AND RECOMMEND THAT PURCHASERS BEFORE USING ANY PRODUCT MAKE THEIR OWN TESTS TO VERIFY THIS DATA UNDER THEIR OWN OPERATING CONDITIONS AND TO DETERMINE TO THEIR OWN SATISFACTION WHETHER THE PRODUCT IS SUITABLE FOR THEIR PARTICULAR PURPOSES. THE PRODUCT(S) DISCUSSED HEREIN ARE SOLD WITHOUT ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED.