

*******MATERIAL SAFETY DATA SHEET*******

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*******SECTION I - PRODUCT IDENTIFICATION*******

CHEMICAL FAMILY: Synthetic Urethane Polymer
TRADE NAME AND SYNONYMS: Component A (Resin)

*******SECTION II - HAZARDOUS INGREDIENTS*******

<u>INGREDIENT</u> <u>CAS NUMBER</u>	<u>Exposure Limits</u>	<u>Concentration (%)</u>
Synthetic urethane polymer containing trace amounts (less than 1%) of ee		
Dicyclohexylmethane 4 4' Diisocyanate CAS # 5124-30-1	0.01 ppm (ceiling) OSHA: .010 PPM Ceiling ACGIH: .005 PPM TWA	less than 1%

These limits are based on promulgated by the 1989 OSHA air contaminates standard 29 C 1910.0

*******SECTION III - PHYSICAL DATA*******

APPEARANCE: Viscous liquid
ODOR: Aromatic
COLOR: Clear or pigmented
BOILING POINT (F) (C): 450 F
SPECIFIC GRAVITY: 1.02
PERCENT VOLATILE (by volume): 0
EVAPORATION RATE (ether = 1): Slower
VAPOR DENSITY (air = 1): Greater
SOLUBILITY IN WATER: Negligible/reacts slowly with water to liberate Carbon Dioxide Gas.

(continued)

IMPORTANT: The data in the Material Safety Data Sheet relates only to the material designated herein and does not relate to use in combination with any other material or in any process. The information herein is furnished free of charge and is based on technical data that PRECISION CONVERTING believes to be reliable, and to the best of our knowledge, accurately reflects the properties and effects of the hazardous components. This product is intended for use by persons having technical skills and at their own discretion and risks. Because conditions of use of this material are outside our control we make no warranties, expressed or implied, and assume no liability in connection with any use of this material.

*******SECTION IV - FIRE & EXPLOSION HAZARD*******

FLASH POINT: Not established

FLAMMABLE LIMITS (% by volume in air): UPPER: N/A LOWER: N/A

EXTINGUISHING MEDIA: Water spray (fog), foam, dry chemical, and carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: Full protective equipment with self-contained breathing apparatus should be worn.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Water spray may be used to cool closed containers and prevent pressure build up. Empty containers may contain liquid or vapor which is flammable or explosive. DO NOT weld, burn or cut empty containers.

*******SECTION V - HEALTH HAZARD DATA*******

EFFECTS OF OVEREXPOSURE:

EYES: Eye irritant possible eye burns and vision failure.

SKIN: Skin irritant and possible skin sensitizer. Direct skin is the route most likely to cause sensitization. Once sensitized an individual may react to airborne levels below the TLV with the following symptoms: itching and tingling of the earlobe and hives, swelling of the arms and legs or other symptoms common to allergic dermatitis. Any individual having a sensitization reaction to this material should be removed from exposure to any isocyanate.

INHALATION: Inhalation of vapors or spray mist may also cause irritation to the respiratory tract (dry throat, cough, shortness of breath, chest tightness). In addition sinusitis, bronchitis or respiratory sensitization (asthma-like

symptoms) may occur. Exposure to toluene may cause nausea, headaches, dizziness or any other central nervous system effects.

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EMERGENCY AND FIRST AID PROCEDURES:

EYES: Flush with large amounts of water for at least 15 minutes. Seek medical attention immediately.

SKIN: Wash exposed area thoroughly with soap and water. Be sure to wash contaminated clothing before reusing. Seek medical attention.

INHALATION: Get person into fresh air. Oxygen may be administered if available and needed. Seek medical attention immediately.

INGESTION: DO NOT induce vomiting. Give glass of water or milk to drink. DO NOT give anything by mouth to an unconscious person. Seek medical attention immediately.

*******SECTION VI - REACTIVITY DATA*******

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Contact with moisture and other materials that react with isocyanate. Temperature above maximum storage temperatures.

INCOMPATIBILITY (materials to avoid): Contact with water, alcohol's, amines and strong bases.

HAZARDOUS DECOMPOSITION PRODUCTS: By high heat and fire, carbon monoxide, carbon dioxide, oxides of nitrogen, traces of IICN isocyanate and solvent vapors.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

*******SECTION VII - SPILL AND LEAK PROCEDURES*******

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Shut off and eliminate all ignition sources. Ventilate confined spaces. Workers should avoid direct skin or eye contact or inhalation or vapors. Absorb on dry inert material. Package for disposal.

*******SECTION VIII - SPECIAL PROTECTION INFORMATION*******

RESPIRATORY PROTECTION: If working in conditions where TLV is exceeded use a chemical cartridge mask or air supply hood as required and/or approved by ANSI and OSHA.

VENTILATION REQUIREMENTS: Use with adequate forced air mechanical ventilation in accordance with OSHA regulations. Ventilation must be sufficient

to prevent vapors from exceeding exposure limit(s) or build up of explosive concentrations of vapor in air.

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EYE PROTECTION: Chemical resistant gloves, apron or coveralls and face shield are required. If protective creams are used minimize the area protected only by the cream.

*******SECTION IX - SPECIAL PRECAUTIONS*******

STORAGE TEMPERATURE: F (38 C) maximum

SHELF LIFE: Minimum one (1) year at 75 F (23 C)

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING: Keep containers closed when not in use. Keep away from heat, sparks and open flame. Store in tightly sealed containers and keep away from moisture and direct sunlight.

OTHER: Wear personal protective equipment when working on equipment that may be contaminated with material.

*******SECTION X - SHIPPING DATA*******

This material is not regulated as a DOT hazardous material.

TECHNICAL SHIPPING NAME: None

DOT (DOMESTIC SURFACE)

PROPER SHIPPING NAME: Liquid Resin (nonregulated)

HAZARD CLASS OR DIVISION: None

UN/NA NUMBER: None

FREIGHT CLASS: 55

PACKAGING GROUP: None