

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

Manufacturer's Name: Precision Converting
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*******SECTION I – PRODUCT IDENTIFICATION*******

CHEMICAL FAMILY: Synthetic Urethane Polymer
TRADE NAME AND SYNONYMS: Primer PC450 Component A(Resin)
FORMULA: The specific chemical formula for this material is a Trade Secret of
PRECISION CONVERTING

*******SECTION II – HAZARDOUS INGREDIENTS*******

<u>INGREDIENTS</u>	<u>% WEIGHT</u>
4'4 Diphenylmethane Diisocyanate (M.D.I.) CAS # 101-68-8	9.79
OSHA: .02 PPM Ceiling .20 mg/m3 Ceiling ACGIH: .005 PPM TWA .051 mg/ms TWA	
Higher Oligomers of M.D.I. CAS # 9016-87-9	9.79
OSAH: Not established ACGIH: Not established	
Diphenylmethane Diisocyanate (M.D.I.) CAS # 26447-40-5	2.17
OSHA: Not established ACGIH: Not established	
Toluene CAS # 108-88-3	51
OSHA: PEL-TWA 100 PPM PEL-STEL 150 PPM ACGIH: TLV-TWA 50 PPM-S TLV-STEL Not established	

*****SECTION III – PHYSICAL DATA*****

APPEARANCE: Thin Liquid
ODOR: Aromatic
COLOR: Clear Amber
BOILING POINT (F) (C): 230
SPECIFIC GRAVITY: 1.00
PERCENT VOLATILE BY VOLUME: 50
EVAPORATION RATE (ether = 1): Slower
VAPOR DENSITY (Air = 1): Greater
SOLUBILITY IN WATER (%): Negligible/reacts with water; slowly

IMPORTANT: The data in this 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 AND EXPLOSION DATA*****

FLASH POINT: 44 F, (T.C.C., ASST. D45-70)
FLAMMABLE LIMITS (% by volume in air): UPPER – 1.7 LOWER – 1
EXTINGUISHING MEDIA: Water spray (fog), foam, dry chemical, or carbon dioxide.
SPECIAL FIRE FIGHTING PROCEDURES: Full protective equipment with self-contained breathing apparatus should be worn.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Material contains flammable solvent. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. 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 burn.
SKIN: Skin irritant and possible skin sensitize. Direct skin contact is likely route

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of entry into the body. Once sensitized an individual may react to airborne levels below the LTV with the following symptoms: itching and tingling of the earlobe and neck, rash 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.

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 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 isocyanates. Temperatures above maximum storage temperature.

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 HEN, isocyanate and solvent vapors.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

*******SECTION VII – SPILL OR 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 of vapors. Absorb on dry inert material. Package for disposal.

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WASTE DISPOSAL METHOD: Dispose of in accordance with local, state, and federal regulations.

*******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.

EYE PROTECTION: Splash goggles or face shield required. A full-face shield is recommended for most situations as it affords eye as well as face protection.

OTHER PROTECTIVE EQUIPMENT: 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: 100 F (38C) maximum

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

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep containers closed when not in use. Keep away from heat, sparks and open flame. Store in tightly sealed containers and 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*******

DOT SHIPPING NAME: Paint Related Material

TECHNICAL SHIPPING NAME:

DOT HAZARD CLASSIFICATION: 3

UN/NA: UN-1263

DOT LABELS REQUIRED: Red Label, Flammable Liquid

DOT PLACARDS REQUIRED: Flammable Liquid

FREIGHT CLASS: 3

PACKAGING, AIR FREIGHT: 307II

LIMIT, AIR FREIGHT: 60 Liters/Package – Air Cargo Only

5 Liters/Package – Passenger Aircraft/Rail

R.Q. (Methylene diphenyl diisocyanate): 5000 lb.