

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

Manufacturer's Name: PRECISION CONVERTING  
Street Address: 6650 CONCORD PARK DR  
City, State, Zip: HOUSTON, TX 77040  
Phone: (713) 943-8451 Fax (713) 943-1525  
Emergency Response Phone: 1-800-424-9300

\*\*\*\*\***SECTION I – PRODUCT IDENTIFICATION**\*\*\*\*\*

PRODUCT NAME: PC- 100, PC- 150, PC- 100 FR, TD 600, TD 603, TD 604, TD 605  
SYNONYMS:  
CHEMICAL FAMILY: Aromatic Diamine Mixture  
FORMULA: (C<sub>2</sub>H<sub>5</sub>)<sub>2</sub> (CH<sub>3</sub>) C<sub>6</sub>H (NH<sub>2</sub>)<sub>2</sub>  
DESCRIPTION: Chemical intermediate for urethane polymer production

\*\*\*\*\***SECTION II – HAZARDOUS COMPONENT DATA**\*\*\*\*\*

PRODUCT COMPOSITION:  
CAS OR CHEMICAL NAME: Dietylenetoluenediamine Mixture  
CAS NUMBER: 68479-98-1  
PERCENTAGE RANGE: 20-30%  
EXPOSURE STANDARDS: None established by OSHA / ACGIH

\*\*\*\*\***SECTION III – PRECAUTIONS FOR SAFE HANDLING AND STORAGE**\*\*\*\*\*

DO NOT TAKE INTERNALLY, AVOID CONTACT WITH SKIN, EYES AND CLOTHING. UPON CONTACT WITH SKIN OR EYES, WASH OFF WITH WATER.  
STORAGE CONDITIONS: Do not store at temperatures above 49 C (120 F).  
OTHER: Product is hygroscopic; protect with padding of dry air -40 C (-40 F) dew point or dry nitrogen. Calcium chloride drying system with silica gel on the vents can also be used.  
PRODUCT STABILITY AND COMPATIBILITY:  
SHELF LIFE LIMITATIONS: Minimum 1 year (closed container)  
INCOMPATIBLE MATERIALS FOR PACKAGING: Use glass or vinyl lined containers. Recommend lined steel (Amercoat No. 23 vinyl coating, 5-coat system); 304SS or equivalent.  
INCOMPATIBLE MATERIALS FOR STORAGE ON TRANSPORT: Strong oxidizers

\*\*\*\*\***SECTION IV PHYSICAL DATA**\*\*\*\*\*

APPEARANCE: Gray, Clear Amber, Black or Blue Liquid  
FREEZING POINT: No Data  
BOILING POINT: 586 F (308 C)  
DECOMPOSITION TEMPERATURE: No Data  
SPECIFIC GRAVITY: 1.02  
VAPOR PRESSURE @ 25 C: < .001 mm Hg @ 20 C (60 F) 10 mm Hg @ 165 C (329 F)  
SOLUBILITY IN WATER: 1.0 wt. % @ 20 C (68 F)  
VOLATILES, PERCENT BY VOLUME: 0

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EVAPORATION RATE: Not Applicable  
VAPOR DENSITY: 6.2, Air = 1  
ODOR: Slightly musty to odorless

**\*\*\*\*\*SECTION V – PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS\*\*\*\*\***

EXPOSURE LIMITS: Not established by OSHA / ACGIH  
EYE PROTECTION: Chemical goggles or face shield  
PROTECTIVE GLOVES: Nitrile or Neoprene Rubber  
RESPIRATORY PROTECTION: NIOSH approved organic vapor respirator when exposed to vapor from heated material.  
LOCAL EXHAUST VENTILATION: At the source of vapor  
MECHANICAL VENTILATION: Recommended  
OTHER: If skin contact or contamination of clothing is likely protective clothing should be worn.

**\*\*\*\*\*SECTION VI – FIRE AND EXPLOSION HAZARD INFORMATION\*\*\*\*\***

**FLAMMABILITY DATA:**

FLAMMABLE LIMITS: Not established  
FLASHPOINT: >275 F (135 C) Test Method; TCC  
EXTINGUISHING MEDIA: Dry chemical, water spray (fog), foam or carbon dioxide  
NFPA RATINGS: Not established  
HMIS RATINGS:  
Health – 2  
Flammability – 0  
Reactivity – 0

FIRE FIGHTING TECHNIQUES AND COMMENTS: Use water to cool containers exposed to fire (see section XI for protective equipment for fire fighting). Avoid breathing smoke and vapor.  
OTHER: Water may cause frothing if it gets below the surface of the liquid and turns to steam. Water fog gently applied to the surface may cause frothing which may extinguish the fire.

**\*\*\*\*\*SECTION VII – REACTIVITY INFORMATION\*\*\*\*\***

**CONDITIONS UNDER WHICH THIS PRODUCT MAY BE UNSTABLE:**

TEMPERATURES ABOVE: No data  
MECHANICAL SHOCK OR IMPACT: No  
ELECTRICAL (STATIC) DISCHARGE: No  
OTHER: Excessive heat  
HAZARDOUS POLYMERIZATION: Will not occur  
INCOMPATIBLE MATERIALS: Strong Oxidizers  
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide and other fragments, which have not been identified.

**SUMMARY OF REACTIVITY:**

OXIDIZER: No  
PYROPHORIC: No  
ORGANIC PEROXIDE: No  
WATER REACTIVE: No

\*\*\*\*\*SECTION IX – TOXICOLOGY AND HEALTH INFORMATION\*\*\*\*\*

INHALATION: Not expected to be a route of exposure due to low volatility at room temperature however heated material may give off significant vapor.

EYE CONTACT: Expect to be an eye irritant

SKIN CONTACT: Expect to be harmful.

\*\*\*\*\*SECTION IX – TOXICOLOGY AND HEALTH INFORMATION CONTINUED\*\*\*\*\*

CHRONIC EFFECTS TO OVER EXPOSURE: A two-year feeding study in rats showed effects in the pancreas, liver thyroid and eyes. An increase in the number of tumors in the liver and thyroid of male rats and in the liver and possible mammary glands of female rats was found.

OTHER HEALTH EFFECTS: In rare instances, sensation has been reported to occur in humans.

\*\*\*\*\*EMERGENCY FIRST AID PROCEDURES\*\*\*\*\*

INHALATION: If inhaled remove to fresh air

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention.

SKIN CONTACT: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Seek medical attention. Wash clothing before reuse.

INGESTION: Induce vomiting immediately giving two glasses of water and placing finger down throat. Never give anything by mouth to an unconscious person seek medical attention.

\*\*\*\*\*SECTION X – TRANSPORTATION INFORMATION\*\*\*\*\*

This material is not regulated as a DOT hazardous material.

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DOT (DOMESTIC SURFACE)

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PROPER SHIPPING NAME: Chemicals N.O.I. (not regulated)

HAZARD CLASS OR DIVISION: None

UN/NA NUMBER: None

FREIGHT CLASS: 55

PACKAGING GROUP: None

\*\*\*\*\*SECTION XI – SPILL AND LEAKAGE PROCEDURES\*\*\*\*\*

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC AT 800-424-9300

REPORTABLE QUANTITY: Not applicable (per 40 CFR 300.4)

SPILLAGE MITIGATION PROCEDURES: Stop source of spill as soon as possible and notify appropriate personnel.

AIR RELEASE: Not applicable

WATER RELEASE: This material is slightly soluble in water and may be subject to emulsification. Divert flow of water and contain that which is contaminated. Remove as a liquid utilizing a vacuum or pumping system as possible.

LAND SPILL: Dike spill area and begin to remove as a liquid. If unable to do so, then absorb in clay, sand or a commercial absorbent and containerize for disposal.

COMPATIBLE ABSORBENTS: Sand, clay, soil.

SPILL RESIDUES: Dispose of per guidelines under Section XII, Waste Disposal.

PERSONAL PROTECTION FOR EMERGENCY SPILL AND FIRE FIGHTING SITUATIONS: In case of fire, use normal fire fighting equipment. Additional respiratory protection is necessary when a spill or fire

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involving this product occurs. You are recommended to use a cartridge type NIOSH/MSHA approved respirator with dust/mist cartridges. Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to; boots, impervious gloves, hard hat, splash-proof goggles, impervious clothing, i.e., chemically impermeable suit.

\*\*\*\*\***SECTION XII – WASTE DISPOSAL**\*\*\*\*\*

If this product becomes a waste, it DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristic of hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D.

As a nonhazardous liquid waste, it should be disposed of in accordance with local, state and federal regulations by incineration.

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THIS MATERIAL. THE USER OF THIS MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.

\*\*\*\*\***SECTION XIII – ADDITIONAL REGULATORY STATUS INFORMATION**\*\*\*\*\*

TOXIC SUBSTANCES CONTROL ACT: This substance is listed on the Toxic Substances Control Act inventory.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT TITLE III:

HAZARD CATEGORIES; FOR SARA 311312 ARE INDICATED BELOW:

- Health; Immediate (acute): Yes
- Health; Delayed (chronic): Yes
- Physical; Fire: No
- Physical sudden release of pressure: No
- Physical reactive: No
- Physical Nuisance Mist / Dust only: No

THE FOLLOWING ARE WHMIS CLASSIFICATIONS FOR THIS PRODUCT:

Class D Division 2B