

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

Manufacturer's Name: PRECISION CONVERTING
Street Address: 6650 CONCORD PARK DR
City, State, Zip: HOUSTON, TX 77040
Phone: (713) 934-1650 Fax 9713) 934-1655
Emergency Response Phone: 1-800-424-9300

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

PRODUCT NAME: PC- 80 R (Component B)
SYNONYMS: Polyether triol
CHEMICAL FAMILY: Hydroxy terminated poly (oxyalkylene) polyol
FORMULA: Not Applicable/Mixture
DESCRIPTION: Chemical intermediate for urethane polymer production
OSHA HAZARD CLASSIFICATION: This product is not considered to be hazardous under 29 CFR 1910.1200.

*******SECTION II – COMPONENT DATA*******

PRODUCT COMPOSITION:
CAS OR CHEMICAL NAME: Polyether triol
CAS NUMBER: 9082-00-2
PERCENTAGE RANGE: 99-100%
HAZARDOUS PER 29 CFR 11920.1200: No
EXPOSURE STANDARDS: None established

*******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 Aluminum Type 3003 or 5054 or equivalent.
INCOMPATIBLE MATERIALS FOR STORAGE ON TRANSPORT: Strong Oxidizers

*******SECTION IV – PHYSICAL DATA*******

APPEARANCE: Milky Transparent Liquid
FREEZING POINT: No data
BOILING POINT: No data
DECOMPOSITION TEMPERATURE: No data
SPECIFIC GRAVITY: 0.9 – 1.1
BULK DENSITY: Not Applicable
pH @ 25 C: 4 – 8 in 10/6 isopropanol/water
VAPOR PRESSURE @ 25 C: 0.01 –3.5 mm Hg

(continued)

SOLUBILITY IN WATER: Soluble to slightly soluble
VOLATILES, PERCENT BY VOLUME: 0
EVAPORATION RATE: Not Applicable
VAPOR DENSITY: No data
MOLECULAR WEIGHT: Not Applicable/Mixture
ODOR: Slightly musty to odorless
COEFFICIENT OF OIL/WATER DISTRIBUTION: No data

*******PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS*******

PERSONAL PROTECTION FOR ROUTINE USE OF PRODUCT:

RESPIRATORY PROTECTION: None required
VENTILATION: Local exhaust ventilation is recommended if vapors, mists or aerosols are generated. Otherwise, use general exhaust ventilation.
SKIN AND EYE PROTECTIVE EQUIPMENT: Use safety glasses with side shields.

EQUIPMENT SPECIFICATIONS (WHEN APPLICABLE):

RESPIRATOR TYPE: Not normally required
PROTECTIVE CLOTHING TYPE: (This includes: gloves, boots, apron, protective suite). Not normally needed.

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

FLAMMABILITY DATA:

FLAMMABLE: No
COMBUSTIBLE: No
PYROPHORIC: No
FLASH POINT: 150-260 C (300-500 F) Test Method; Cleveland open cup
AUTOIGNITION TEMPERATURE: No data
FLAMMABLE LIMITS AT NORMAL ATMOSPHERIC TEMPERATURE AND PRESSURE
(percent volume in air): LEL – No data UEL – No data

NFPA RATINGS: Not established

HMIS RATINGS:

HEALTH: 0
FLAMMABILITY: 1
REACTIVITY: 0

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, and water spray

FIRE FIGHTING TECHNIQUES AND COMMENTS: Use water to cool containers exposed to fire (see Section XI for protective equipment for fire fighting).

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 VIII – FIRST AID*****

EYES: Not an eye irritant
SKIN: Not a skin irritant. Washing any substance off the skin with water is a good safety practice.
INGESTION: Immediately drink water to dilute. Consult a physician if symptoms develop.
INHALATION: This product is not toxic by inhalation. Remove individual to fresh air.

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

ROUTES OF ABSORPTION: This product will not exert a significant adverse effect to health from any route of exposure.
WARNING STATEMENTS AND WARNING PROPERTIES: DO NOT TAKE INTERNALLY.
HUMAN THRESHOLD RESPONSE DATA:
ODOR THRESHOLD: There is no data for odor threshold.
IRRITATION THRESHOLD: There is no data for irritation threshold.
IMMEDIATELY DANGEROUS TO LIFE OR HEALTH: The IDLH concentration has not been Established for this product.
SIGNS, SYMPTOMS AND EFFECTS OF EXPOSURE:
INHALATION:
ACUTE: No significant adverse effects to health will occur from dermal contact.
CHRONIC: There are no known or reported effects from chronic exposure except for effects Similar to those experienced from single exposure.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: There is no medical conditions known to be aggravated by exposure.
INTERACTIONS WITH OTHER CHEMICALS, WHICH ENHANCE TOXICITY: There are no chemicals known to enhance the toxicity of the product.
ANIMAL TOXICOLOGY:
ACUTE TOXICITY:
INHALATION LC 50: Greater than a nominal concentration of 200 mg/1 for 1-hour (rat)
DERMAL LD 50: > g/kg (rabbit)
ORAL LD 50: > 5g/kg (rat)
IRRITATION: Not a skin and eye irritant
AQUATIC TOXICITY: None known or reported
CHRONIC TARGET ORGAN TOXICITY: There is no known or reported effects from repeated exposure.
REPRODUCTIVE AND DEVELOPMENTAL TOXICITY: There is no known or reported effects on reproductive function pre-fetal development.
CARCINOGENICITY: This product is not known or reported to be carcinogenic by any reference source including LARC, OSHA, NTP or EPA.
MUTAGENICITY: This product is not known or reported to be mutagenic.

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

This material is not regulated as a DOT hazardous material.

TECHNICAL SHIPPING NAME: Propylene Glycol

DOT (DOMESTIC SURFACE)

PROPER SHIPPING NAME: Liquid Resin (Nonregulated)
HAZARD CLASS OR DIVISION: None
UN/NA NUMBER: None
FREIGHT CLASS: 55
PACKAGING GROUP: None
HAZARDOUS SUBSTANCE: None
DOT PRODUCT RQ lbs.: 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)

SPILL 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 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 characteristics 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, per 40 CFR 370.2: Health – None
Physical – None

EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW, PER 40 CFR. APP.A:

EXTREMELY HAZARDOUS SUBSTANCE – THRESHOLD PLANNING QUANTITY: None established.

SUPPLIER NOTIFICATION REQUIREMENTS, PER 40 CFR 372.45: None established

THE INFORMATION IN THIS MATERIAL SAFETY DATA SHEET SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. OLIN BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OR THE DATE OF PUBLICATION, BUT MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS MATERIAL SAFETY DATA SHEET IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT OLIN AT THE PHONE NUMBER LISTED BELOW TO MAKE CERTAIN THAT THIS SHEET IS CURRENT.