

MATERIAL SAFETY DATA SHEET

FORSCH POLYMER CORP.  
3870 NIAGARA STREET  
DENVER, COLORADO 80207

IMPORTANT: BEFORE OPENING ANY FORSCH POLYMER PACKAGES READ  
WARNING LABELS AND FOLLOW ALL PRECAUTIONS.

TELEPHONE NUMBER (303) 322-9611 PAGE 1 OF 5

SECTION 1

FORSCH POLYMER CORP PRODUCT NUMBER: ISO110A  
3870 NIAGARA STREET PRODUCT NAME : ISO110A  
DENVER, COLORADO 80207 CHEMICAL TYPE : ISOCYANATE

EMERGENCY NUMBER :  
CHEMTREC : 1-800-424-9300  
DATE OF REVISION : FEBRUARY 2, 1990

HAZARD RATING : (4) EXTREME (3) HIGH (2) MODERATE (1) SLIGHT  
(0) INSIGNIFICANT

TOXICITY : 4 FIRE : 1 REACTIVITY : 0 SPECIAL:

SECTION 2 HAZARDOUS COMPONENTS

	C.A.S. NO.	PERCENT	(ACGIH) TLV	(OSHA) PEL	(ACGIH) STEL
VEHICLE : Diphenylmethne Diisocyanate	25447-40-5	1-10			

SECTION 3 PHYSICAL DATA

BOILING POINT : N/A  
VAPOR DENSITY (AIR = 1) : Heavier than air  
SOLUBLE IN WATER : Slight (0.1 - 1.0%)  
SPECIFIC GRAVITY : 1.08  
% VOLATILE BY VOLUME : Nil %  
EVAPORATION RATE : Slower  
APPEARANCE AND ODOR : Opaque viscous liquid with little  
odor.

FORSCH POLYMER CORP.

PAGE 2 OF 5

## =====

## S E C T I O N    4            FIRE AND EXPLOSION HAZARD DATA

=====

FLASH POINT : &gt;350.0 Deg. F

U.E.L.            : N/A

EXTINGUISHING MEDIA : Foam, CO2, Dry chemical

UNUSUAL FIRE AND EXPLOSION HAZARDS: Irritating and/or toxic gases or fumes may be generated by thermal decomposition or combustion. Closed containers may rupture or explode ( due to pressure build-up) when exposed to extreme heat.

FIRE FIGHTING PROCEDURES : Wear self-contained breathing apparatus and protective clothing. Use water to cool exposed containers. Water stream directed into fire may cause frothing with subsequent spread of fire.

## =====

## S E C T I O N    5            HEALTH HAZARD DATA

=====

ACUTE TOXICITY :

EYE CONTACT : Moderate irritant. May cause reversible cornea injury.

SKIN CONTACT : Moderate irritant. May cause dermatitis and allergic response. Strong skin sensitizer.

INHALATION : Respiratory irritant and sensitizer. Overexposure may cause headaches, nausea, and vomiting. Material aspirated into lungs may cause chemical pneumonitis.

INGESTION : May cause irritation/burns of mouth, throat and stomach. Symptoms include nausea, abdominal pain and possible collapse. Preexisting pulmonary and dermatological disorders may be aggravated by exposure to hazardous components.

CHRONIC OVEREXPOSURE INFORMATION :None of the components of this product are listed as known or suspected carcinogens by NTP,IARC, or OSHA. No specific chronic effects known.

## =====

## S E C T I O N    6            FIRST AID PROCEDURES

=====

EYE CONTACT : Flush with plenty of water at least, 15 minutes. Obtain immediate medical attention.

SKIN CONTACT : Remove contaminated clothing. Wash affected area(s) thoroughly with soap and water. Consult physician.

INHALATION : Remove to fresh air. If breathing is difficult, give oxygen. Administer artificial respiration if not breathing. Get medical help

FORSCH POLYMER CORP.

PAGE 3 OF 5

## =====

## S E C T I O N      6 continued.

## =====

INGESTION            : DO NOT INDUCE VOMITTING.

Give water or milk if victim is conscious and not drowsy. Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomitus into lungs. Obtain immediate medical attention.

## =====

## S E C T I O N      7            REACTIVITY DATA

=====

STABILITY        :    Stable

STABILITY CONDITIONS TO AVOID : Long-term exposure to elevated temperatures. Contamination with moisture.

INCOMPATIBILITY            : (Materials to avoid contact with.)  
Strong bases or oxidants. Strong Lewis or Mineral acids. Water, alcohols. Surface-active compounds. Amine hardeners in large masses or under uncontrolled conditions.

HAZARDOUS DECOMPOSITION    : Acrid fumes. Oxides of Carbon, Toxic nitrogenous oxides. Ammonia, Toxic Monomer fumes.

HAZARDOUS POLYMERIZATION    : Will not occur.

## =====

## S E C T I O N      8            SPILL OR LEAK PROCEDURES

ACTION TO BE TAKEN: Ventilate area. Wear appropriate protective equipment during cleanup. Contain spill. Absorb with inert material. Sweep or shovel into containers with lids. Cover loosely and remove to appropriate waste area. Wash spill area with soap and water.

WASTE DISPOSAL METHODS    : Review all local, state and federal regulations concerning health and pollution for appropriate disposal procedures.

## =====

## S E C T I O N      9            SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION    : If the TLV is exceeded, if use is performed in a poorly ventilated confined space or area with limited ventilation, use NIOSH-approved respirator in accordance with 29 CFR 1910.134. USE NIOSH-approved respirator for dust and mist when grinding or machining cured compounds. USE self-contained breathing apparatus when burning out cured compounds.

FORSCH POLYMER CORP

PAGE 4 OF 5

## ===== SECTION 9 continued: =====

VENTILATION : Local exhaust as needed to control vapor/dust levels to below recommended limits.

GLOVES : Impervious rubber.

EYE PROTECTION : Chemical safety goggles.

OTHER PROTECTIVE EQUIPMENT : Accessible eye wash and safety shower. Clean protective clothes.

## ===== SECTION 10 SPECIAL PRECAUTIONS =====

## HANDLING AND STORAGE PRECAUTIONS:

For professional use only.  
Do not take internally.  
Avoid contact with eyes, skin and clothing.  
Avoid breathing vapor/dust/mist.  
Wash thoroughly after handling.  
Tightly reseal all partially used containers.  
Use only with adequate ventilation.

## OTHER INFORMATION:

- \* N/A - Information or data not available.
- \*\* NTP - National Toxicology Program
- \*\* IARC - International Agency for Research on Cancer
- \*\* ACGIH- American Conference of Governmental Industrial Hygienists
- \*\* OSHA - Occupational Safety and Health Administration
- \*\*\* PEL - Permissible Exposure Limit ( 8-hr. TWA) (OSHA)
- \*\*\* TLV - Threshold Limit Value ( 8-hr. TWA) (ACGIH)

## ===== SECTION 11 REGULATORY DATA =====

## TRANSPORTATION

	DOT	UN
HAZARD CLASS :	NOT REGULATED	NOT REGULATED
UN/NA NUMBER :	NOT REGULATED	NOT REGULATED
SHIPPING NAME :	NOT REGULATED	NOT REGULATED
CLASS NUMBER :	NOT APPLICABLE	NOT APPLICABLE
SUBSID. RISK :	NOT APPLICABLE	NOT APPLICABLE
PACKING GROUP :	NOT APPLICABLE	NOT APPLICABLE

## REPORTING

CERCLA REPORTABLE QUANTITY : As a product : none As waste: none

FORSCH POLYMER CORP

PAGE 5 OF 5

=====

SECTION      11      continued:

=====

REPORTING :

SARA TITLE III    EMERGENCY RESPONSE REPORTABLE QUANTITY : none

SARA TITLE III    INVENTORY REPORTING (Y/N)    y

SARA TILTE III    HAZARD CLASS(ES) : ACUTE HEALTH HAZARD

COMPONENTS ON TSCA INVENTORY      : (Y/N)    y

DISPOSAL

EPA RCRA WASTE CLASS    : NOT REGULATED

EPA RCRA WASTE NUMBER    : NOT REGULATED

CALIFORNIA LIST LAND BAN (Y/N) NOT APPLICABLE

=====

DISCLAIMER

=====

Information presented herein has been compiled from information provided to us by our suppliers and other sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Nothing herein is to be construed as recommending any practice or use of any product in violation of any patent or in violation of any law or regulation. It is the user's responsibility to determine the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. We make no warranty as to the results to be obtained in using any material and, since conditions of use are not under control, we must necessarily disclaim all liability with respect to use of any material supplied by us.

=====