

CYTEC INDUSTRIES INC -- CONATHANE EN-1556 PART A URETHANE PREPOLYMER --  
5970-01-158-6537

===== Product Identification =====

Product ID:CONATHANE EN-1556 PART A URETHANE PREPOLYMER

MSDS Date:02/27/2001

FSC:5970

NIIN:01-158-6537

Kit Part:Y

MSDS Number: CLDPF

=== Responsible Party ===

Company Name:CYTEC INDUSTRIES INC

Address:FIVE GARRET MOUNTAIN PLAZA

City:WEST PATERSON

State:NJ

ZIP:07424

Country:US

Info Phone Num:800-652-6013

Emergency Phone Num:703-527-3887-OUTSIDE USA/CANADA

Resp. Party Other MSDS Num.:05931

Chemtrec Ind/Phone:(800)424-9300

CAGE:0V7G8

=== Contractor Identification ===

Company Name:CYTEC INDUSTRIES INC

Address:FIVE GARRET MOUNTAIN PLAZA

Box:City:WEST PATERSON

State:NJ

ZIP:07424

Country:US

Phone:800-652-6013

CAGE:0V7G8

Company Name:THE SMITH GROUP INC.

Address:811 E. CAYUGA STREET

Box:City:PHILADELPHIA

State:PA

ZIP:19124-3893

Country:US

Phone:215-743-8200

Contract Num:SP0

411-01-W-E315  
CAGE:2B613  
Company Name:THE SMITH GROUP INC.  
Address:811 E. CAYUGA STREET  
Box:City:PHILADELPHIA  
State:PA  
ZIP:19124-3893  
Country:US  
Phone:215-743-8200  
Contract Num:SP0430-01-M-NH74  
CAGE:2B613

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===== Composition/Information on Ingredients =====

Ingred Name:2,4-TOLUENE DIISOCYANATE  
CAS:584-84-9  
RTECS #:CZ6300000  
&lt; Wt:3.  
OSHA PEL:C0.14 MG/M3;C.02 PPM  
ACGIH TLV:0.036 MG/M3;.005 PPM  
ACGIH STEL:0.14 MG/M3;0.02 PPM  
EPA Rpt Qty:100 LBS  
DOT Rpt Qty:100 LBS

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===== Hazards Identification =====

LD50 LC50 Mixture:ACUTE ORAL(RAT) >5,000 MG/KG (EST.)  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:YES  
Health Hazards Acute and Chronic:THE ACUTE ORAL (RAT) AND DERMAL  
(RABBIT) LD50 VALUES ARE ESTIMATED TO BE GREATER THAN 5000 MG/KG  
AND GREATER THAN 2000 MG/KG, RESPECTIVELY. THE 4-HOUR LC50 (RAT)  
VALUE IS CALCULATED TO >2.8 MG/L. DIRE CT CONTACT WITH THIS  
MATERIAL MAY C  
AUSE MILD EYE AND SKIN IRRITATION. REPEATED OR  
PROLONGED DERMAL CONTACT WITH THIS MATERIAL MAY CAUSE ALLERGIC SKIN  
REACTION. INHALATION OVEREXPOSURE MAY CAUSE IRRITA TION OF THE  
RESPIRATORY TRACT. INHALATION OVEREXPOSURE MAY CAUSE ALLERGIC  
RESPIRATORY REACTION.  
Explanation of Carcinogenicity:THIS MATERIAL CONTAINS 2,4-TOLUENE  
DIISOCYANATE  
Effects of Overexposure:THE ACUTE ORAL (RAT) AND DERMAL (RABBIT) LD50  
VALUES ARE ESTIMATED TO BE GREATER THAN 5000 MG/KG AND GREATER TH

AN

2000 MG/KG, RESPECTIVELY. THE 4-HOUR LC50 (RAT) VALUE IS CALCULATED TO >2.8 MG/L. DIRE CT CONTACT WITH THIS MATERIAL MAY CAUSE MILD EYE AND SKIN IRRITATION. REPEATED OR PROLONGED DERMAL CONTACT WITH THIS MATERIAL MAY CAUSE ALLERGIC SKIN REACTION. INHALATION OVEREXPOSURE MAY CAUSE IRRITA TION OF THE RESPIRATORY TRACT. INHALATION OVEREXPOSURE MAY CAUSE ALLERGIC RESPIRATORY REACTION.

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===== First Aid Measures =====

First Aid:INGESTIO

N: CALL A DOCTOR IMMEDIATELY. ONLY INDUCE VOMITING AT THE INSTRUCTIONS OF THE DOCTOR. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SKIN: IMMEDIATELY WASH AFFECTED AREAS WITH SOAP & PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING & SHOES. OBTAIN MEDICAL ATT'N. EYES: IMMEDIATELY IRRIGATE WITH PLENTY OF WATER FOR 15 MIN. INHALATION: REMOVE FROM EXPOSURE. ADMINISTER OXYGEN IF DIFFIC ULTY BREATHING. GIVE ARTIFICIAL RESPIRATION IF PERSON IS NOT BREATHING . OBTAI N MEDICAL ATT'N WITHOUT DELAY.

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===== Fire Fighting Measures =====

Flash Point Method:TCC

Flash Point:>93.3C, 200.F

Autoignition Temp:Autoignition Temp Text:N/AV

Lower Limits:N/AV

Upper Limits:N/AV

Extinguishing Media:USE CARBON DIOXIDE, DRY CHEMICAL, WATER SPRAY OR ALCOHOL FOAM TO EXTINGUISH FIRES. IF WATER SPRAY OR ALCOHOL FOAM IS USED, IT SHOULD BE IN LARGE QUANTITIES.

Fire Fighting Procedures:WATER OR ALCOHOL FOAM MAY REACT VIGOROUSLY WITH HOT I

SOCYANATE RELEASING CARBON DIOXIDE. DO NOT RESEAL CONTAMINATED CONTAINERS SINCE PRESSURE BUILD-UP MAY CAUSE RUPTURE. USE WATER TO KEEP FIRE-EXPOSED CONTAINERS COOL. WEAR SELF-CONTAINED POSITIVE PRESSURE BREATHING APPARATUS AND FULL FIREFIGHTING PROTECTIVE CLOTHING.

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===== Accidental Release Measures =====

Spill Release Procedures:WHERE EXPOSURE LEVEL IS NOT KNOWN, WEAR NIOSH APPROVED, POSITIVE PRESSURE, SELF-CONTAINED RESPIRATOR. WHERE EXPOSU

RE LEVEL IS KNOWN, WEAR NIOSH APPROVED RESPIRATOR SUITABLE FOR LEVEL OF EXPOSURE. IN ADDITION TO THE PROTECTIVE CLOTHING/EQUIPMENT, WEAR IMPERVIOUS BOOTS. COVER SPILLS WITH SOME INERT ABSORBENT MATERIAL; SWEEP UP AND PLACE IN A WASTE DISPOSAL CONTAINER. FLUSH AREA WITH WATER.

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===== Handling and Storage =====

Handling and Storage Precautions:AVOID BREATHING VAPOR. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. KEEP CONTAINER CLOSED. USE WITH ADEQUATE VENTILATION. DO NOT ALLOW WATER OR OTHER LIQUIDS TO GET INTO CONTAINER. DO NOT HEAT CONTENTS IN CLOSED CONTAINER.

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===== Exposure Controls/Personal Protection =====

Respiratory Protection:WHERE EXPOSURES ARE BELOW THE PERMISSIBLE EXPOSURE LIMIT (PEL), NO RESPIRATORY PROTECTION IS REQUIRED. WHERE EXPOSURES EXCEED THE PEL, USE RESPIRATOR APPROVED BY NIOSH FOR THE MATERIAL AND LEVEL OF EXPOSURE. SEE "GUIDE TO INDUSTRIAL RESPIRATORY PROTECTION" (NIOSH).

Ventilation:WHERE THIS MATERIAL IS NOT USED IN A CLOSED SYSTEM, GOOD ENCLOSURE AND LOCAL EXHAUST VENTILATION SHOULD BE PROVIDED TO CONTROL EXPOSURE

Eye Protection:WEAR EYE PROTECTION SUCH AS CHEMICAL SPLASH PROOF GOGGLES OR FACE SHIELD

Other Protective Equipment:PROTECTIVE CLOTHING SUCH AS IMPERVIOUS GLOVES, APRON, WORKPANTS, LONG SLEEVE WORK SHIRT, OR DISPOSABLE COVERALLS ARE RECOMMENDED TO PREVENT SKIN CONTACT. EYEWASH EQUIPMENT & SAFETY SHOWER.

Work Hygienic Practices:BEFORE EATING, DRINKING, OR SMOKING, WASH FACE AND HANDS WITH SOAP AND WATER. AVOID SKIN CONTACT.

Supplemental Safety and Health  
FOOD, BEVERAGES, AND TOBACCO PRODUCTS SHOULD NOT BE CARRIED, STORED, OR CONSUMED WHERE THIS MATERIAL IS IN USE.

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===== Physical/Chemical Properties =====

HCC:T6

Boiling Pt:B.P. Text:NOT AVAILABLE

Melt/Freeze Pt:M.P/F.P Text:N/AV

Spec Gravity:1.06

Evaporation Rate & Reference: