

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:

SP0411-01-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
< 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 MA
Y 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.
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

THAN

2000 MG/KG, RESPECTIVELY. THE 4-HOUR LC50 (RAT) VALUE IS CALCULATED TO >2.8 MG/L. DIRECT 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 IRRITATION OF THE RESPIRATORY TRACT. INHALATION OVEREXPOSURE MAY CAUSE ALLERGIC RESPIRATORY REACTION.

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

First Aid:INGESTION:

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 ATTENTION. EYES: IMMEDIATELY IRRIGATE WITH PLENTY OF WATER FOR 15 MIN. INHALATION: REMOVE FROM EXPOSURE. ADMINISTER OXYGEN IF DIFFICULT BREATHING. GIVE ARTIFICIAL RESPIRATION IF PERSON IS NOT BREATHING. OBTAIN MEDICAL ATTENTION 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 ISOCYANATE

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 EXPOSURE LEVEL IS KNOWN, WEAR APPROPRIATE RESPIRATORY PROTECTIVE EQUIPMENT.

OSURE 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: