

CONAP INC. -- CONATHANE EN-1556 PART A URETHANE PREPOLYMER -- 5970-01-276-0966
===== Product Identification =====

Product ID:CONATHANE EN-1556 PART A URETHANE PREPOLYMER

MSDS Date:03/08/2000

FSC:5970

NIIN:01-276-0966

Status Code:A

Kit Part:Y

MSDS Number: CKXWF

=== Responsible Party ===

Company Name:CONAP INC.

Address:1405 BUFFALO STREET

City:OLEAN

State:NY

ZIP:14760

Country:US

Info Phone Num:716-

372-9650

Emergency Phone Num:716-372-9650 800-424-9300(CHEMTREC)

Resp. Party Other MSDS Num.:05931

Chemtrec Ind/Phone:(800)424-9300

CAGE:16245

=== Contractor Identification ===

Company Name:CONAP INC.,WHOLLY OWNED SUBSIDIARY OF CYTEC INDUSTRIES
INC.

Address:1405 BUFFALO STREET

Box:City:OLEAN

State:NY

ZIP:14760

Country:US

Phone:716-372-9650

CAGE:16245

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

Cont

Contract Num:SP0411-00-X-EU06
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-H796
CAGE:2B613

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Composition/Information on Ingredients
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Ingredient Name:2,4-TOLUENE DIISOCYANATE (SARA 302/313) (CERCLA)
CAS:584-84-9
RTECS #:CZ6300000
< Wt:3.
OSHA PEL:TWA 0.02 PPM, (C)
ACGIH TLV:0.005 PPM
ACGIH STEL:0.02 PPM
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

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Hazards Identification
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LD50 LC50 Mixture:ORAL LD50 (RAT) IS 5.8 - 6.2 G/KG.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:ACUTE: VAPOR IS EXTREMELY IRRITATING,
HARMFUL IF INHALED, MAY CAUSE ALLERGIC SKIN OR RESPIRATORY
REACTION, CAUSES EYE IRRITATION. REPEATED OR PROLONGED DERMAL
CONTACT WITH THIS MATERIAL MAY CAUSE ALLERGIC REACTIONS. D
IRECT
CONTACT WITH THIS MATERIAL MAY CAUSE MODERATE EYE AND SKIN
IRRITATION. INHALATION OVEREXPOSURE MAY CAUSE IRRITATION OF THE
RESPIRATORY TRACT AND EYES. INHALATION OVEREXPOSURE MAY CAUSE
ALLERGIC RESPIRATORY REACTION. CHRONIC: MAY CAUSE RESPIRATORY
SYSTEM DAMAGE. 2,4-TOLUENE DIISOCYANATE CAUSED CANCER IN LABORATORY
ANIMAL TESTS. RISK DEPENDS ON DURATION AND LEVEL OF EXPOSURE.
Explanation of Carcinogenicity:CONTAINS TOLUENE DIISOCYANATE WHICH IS
LISTED BY NTP AND

IARC. IARC: 2B, "AGENT IS POSSIBLY CARCINOGENIC TO HUMANS". NTP: 2," SUBSTANCE THAT "REASONABLY ANTICIPATED TO BE CARCINOGENS".

Effects of Overexposure:VAPOR MAY CAUSE SEVERE RESPIRATORY IRRITATION, RESPIRATORY SENSITIZATION AND ALLERGIC REACTIONS. RESPIRATORY SENSITIZATION MANIFESTS ITSELF AS SEVERE BREATHING DIFFICULTY SIMILAR TO ASTHMA. THIS REACT ION MAY OCCUR 6-24 HOURS LATER. SKIN EXPOSURE TO LIQUID MAY CAUSE MODERATE IRRITATION AND ALLERGIC SKIN REACTION. IT I S ALSO AN EYE IRRITANT.

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

First Aid:SKIN CONTACT: REMOVE CONTAMINATED CLOTHING AND SHOES. WASH EXPOSED SKIN WITH SOAP AND PLENTY OF WATER. GET MEDICAL ATTENTION. DESTROY OR THOROUGHLY CLEAN SHOES BEFORE REUSE. LAUNDER CONTAMINATED CLOTH ING BEFORE REUSE. EYE CONTACT: FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. INHALATION: MOVE TO FRESH AIR. GIVE OXYGEN OR ARTIFICIAL RES PIRATION IF NEEDED. GET MEDICA L ATTENTION. INGESTION: CALL PHYSICIAN IMMEDIATELY. ONLY INDUCE VOMITING AT THE INSTRUCTIONS OF A PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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

Flash Point Method:TCC
Flash Point:>93.3C, 200.F
Extinguishing Media:USE CARBON DIOXIDE, DRY CHEMICAL, WATER SPRAY OR ALCOHOL FOAM TO EXTINGUISH FIRES. MAY REACT WITH ISOCYANATE RELEASING CO2. USE WATER TO KEEP FIRE-EX POSED CONTAINERS COOL.
Fire Fighting Procedures:WEAR SELF-CONTAINED POSITIVE PRESSURE BREATHING APPARATUS AND FULL FIREFIGHTING PROTECTIVE CLOTHING. IF WATER SPRAY OR ALCOHOL FOAM USED, IT SHOULD BE IN LARGE QUANTITIES. WATER AND ALCOHOL FOAM MAY R EACT VIGOROUSLY WITH HOT ISOCYANATE RELEASING CO2. DO NOT RESEAL CONTAINERS SINCE PRESSURE BUILD-UP MAY CAUSE RUPTURE.

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

Spill Release Procedures:WHERE EXPOSURE LE

VEL IS NOT KNOWN, WEAR NIOSH APPROVED, POSITIVE PRESSURE, SELF-CONTAINED RESPIRATOR. WHERE EXPOSURE LEVEL IS KNOWN, WEAR NIOSH APPROVED RESPIRATOR SUITABLE FOR LEVEL OF EXPOSURE. IN ADDITION TO PROTECTIVE CLOTHING/EQUIPMENT, WEAR IMPERVIOUS BOOTS. COVER SPILLS WITH INERT ABSORBENT MATERIAL, SWEEP UP AND PLACE IN WASTE DISPOSAL CONTAINER. FLUSH AREA WITH WATER.

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

Handling and Storage Precautions: AVOID BREATHING VAPOR. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. AVOID CONTACT WITH EYES. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. DO NOT ALLOW WATER OR OTHER LIQUIDS TO GET INTO CONTAINER.

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

Respiratory Protection: WHERE EXPOSURES ARE BELOW PERMISSIBLE EXPOSURE LIMIT (PEL), NO RESPIRATORY PROTECTION IS REQUIRED. WHERE EXPOSURES EXCEED 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.

Protective Gloves: WEAR IMPERVIOUS GLOVES TO AVOID SKIN CONTACT.

Eye Protection: CHEMICAL SPLASH GOGGLES OR FACE SHIELD IF FACE OR EYE CONTACT CAN OCCUR.

Other Protective Equipment: PROTECTIVE CLOTHING SUCH AS IMPERVIOUS GLOVES, APRON, WORKPANTS, LONG SLEEVED WORK SHIRT, DISPOSABLE COVERALLS RECOMMENDED TO PREVENT SKIN CONTACT. PROVIDE EYE WASH EQUIPMENT AND SAFETY SHOWER.

Work Hygienic Practices: BEFORE EATING, DRINKING OR SMOKING, WASH FACE AND HANDS WITH SOAP AND WATER. SHOWER AFTER WORKSHIFT. LAUNDRY WORK CLOTHING AT END OF WORKSHIFT PRIOR TO REUSE.

Supplemental Safety and Health
STORE STREET CLOTHING SEPARATELY FROM WORK CLOTHING AND PROTECTIVE EQUIPMENT. WORK CLOTHING AND SHOES MUST NOT BE TAKEN HOME. THIS ENTRY

Y DESCRIBES PART A OF A TWO PART KIT. SEE THIS SAME NSN, SERIAL
NUMBER CDGHR, FOR PART B DATA. HCC=V1 SELECTED OVER V5 AND T7
SINCE V1 IS ONLY ONE REGULATED FOR TRANSPORTATION .

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

HCC:V1

Spec Gravity:1.06

Evaporation Rate & Reference: