

CONAP INC. -- CONATHANE CE-1164 -- 5970-00-935-4941

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

Product ID:CONATHANE CE-1164

MSDS Date:07/21/1989

FSC:5970

NIIN:00-935-4941

MSDS Number: BFXQT

=== 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

Preparer's Name:GEORGE C. KARPIN

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

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

Ingred Name:XYLENES (O-,M-,P- ISOMERS) (SARA III)

CAS:1330-20-7

RTECS #:ZE2100000

Fraction by Wt: 10-20%

OSHA PEL:100 PPM/150 STEL

ACGIH TLV:100 PPM/150STEL;9192

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ing

red Name:PROPYLENE GLYCOL METHYL ETHER ACETATE

CAS:108-65-6

RTECS #:AI8295000

Fraction by Wt: 20-30%

Other REC Limits:100 PPM

Ingred Name:TOLUENE-2,4-DIISOCYANATE (TDI) (SARA III)

CAS:584-84-9

RTECS #:CZ6300000

Fraction by Wt: 25GM SOLID RESIN/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:LIQUID IS SEVERELY IRRITATING TO BODY TISSUES. TOLUENE DIISOCYANATE MAY SENSITIZE SEVERE ALLERGIC

REACTIONS SUCH AS A CHEMICAL ASTHMA. PEL FOR TDI IS BELOW THE ODOR THRESHOLD. SOLVENTS ARE ABSORBED BY THE SKIN AND WITH CHRONIC OVEREXPOSUREMAY CAUSE PERMANENT CENTRAL NERVOUS SYSTEM DAMAGE KNOWN AS PAINTERS SYNDROME.

Explanation of Carcinogenicity:TOLUENE DIISOCYANATE IS LISTED BY NTP AND IARC. SEE INDIVIDUAL REPORTS FOR DETAILS.

Effects of Overexposure:EYE: SEVERE IRRITATION. SKIN:IRRITATION, DERMATITIS, SENSITIZED DERMATITIS. INHALED:RESPIRATORY IRRITATION, FLU-LI

KE SYMPTOMS, ASTHMA, SENSITIZING, NARCOSIS, LOSS OF APPETITE. INGESTED:G/I IRRITATION, HEADACHE,NAUSEA,VOMITING,DIARRHEA.

Medical Cond Aggravated by Exposure:SINCE TDI SENSITIZES DERMAL AND RESPIRATORY ALLERGYS, PEOPLE WITH ISOCYANATE SENSITIZATION, OR DERMATITIS, ASTHMA, AND OTHER SIMILAR DISORDERS SUCH AS EMPHYSEMA, ECZEMA, ETC. MAY BE AT INCREASED RISK.

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

First Aid:EYE:FLUSH W/WATER 15 MIN HOLD LIDS OPEN. SEE A DOCTOR.

SKIN:REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE. WASH WITH SOAP & WATER. INHALED:REMOVE TO FRESH AIR. RESTORE BREATHING IF NECESSARY. GET MEDICAL CARE AS ASTHMATIC SYMPTOMS MAY DEVELOP EITHER IMMEDIATELY OR BE DELAYED SEVERAL HOURS. INGESTED:DO NOT INDUCE VOMITING. GIVE MILK OR WATER TO DRINK IF CONSCIOUS. GET IMMEDIATE MEDICAL CARE

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

Flash Point Method:TCC

Flash Point:>45F,>7C

Ext

inguishing Media:USE CARBON DIOXIDE, FOAM, DRY CHEMICAL

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG GROUND OR FLOOR, THEN 'FLASH BACK' FROM AN IGNITION SOURCE. FORMS HAZARDOUS DECOMPOSITION PRODUCTS IN A FIRE.

===== Accidental Release Measures =====
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Spill Release Procedures:ALWAYS USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. COVER SPILL WITH SAWDUST,VERMICULITE,ETC. ADD LIQUID DECONTAMINANT AND ALLOW TO SET FOR AT LEAST 10 MIN. COLLECT MATERIAL IN OPEN CONTAINERS AND ADD MORE DECONTAMINANT.

Neutralizing Agent:WATER WITH 2-5% DETERGENT AND 0-10% AMMONIA. SEE SUPP DATA FOR ALTERNATE.

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

Handling and Storage Precautions:STORE TIGHTLY CLOSED IN A DRY AREA.

STORE BETWEEN 32-122F (50-81F, IDEAL). PROTECT FROM MOISTURE. PRODUCT WILL POLYMERIZE SLOWLY AT HIGHER TEMPERATURE

Other Precautions:'EMPTY' CONTAINERS MAY CONTAIN RESIDUE OR VAPOR. TREAT THEM WITH THE RESPECT DUE FULL ONES. DO NOT CUT,WELD,ETC. ON THEM.

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

Respiratory Protection:USE POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR ANY TIME THE EXPOSURE IS ABOVE THE CEILING, SHORT TERM EXPOSURE LE

VEL,OR PEL, AND AT ALL TIMES DURING SPRAYING OPERATIONS. OTHER RESPIRATORS MAY BE USED F OR SHORT (1 HOUR) EXPOSURES ONLY!!

Ventilation:GENERAL VENTILATION SUPPLEMENTED WITH LOCAL EXHAUST, AS NEEDED TO MAINTAIN EXPOSURES BELOW PEL/TLV.

Protective Gloves:RUBBER,VINYL OR OTHER IMPERVIOUS

Eye Protection:GOGGLES OR FACE SHIELD **NO CONTACTS!!*

Other Protective Equipment:EYE WASH STATION & SAFETY SHOWER. COVER AS MUCH SKIN AS POSSIBLE DURING OPERATIONS.

Work Hygienic Practices:USE STRICT

CHEMICAL HYGIENE PRACTICES. AVOID

ALL CONTACT POSSIBLE. WASH THOROUGHLY AFTER USING.

Supplemental Safety and Health

TDI LD50 = 5800MG/KG; TDI LC50 = 4 HR @ 16-50PPM. INHALATION AND SKIN ARE MOST DAMAGING EXPOSURES. ALTERNATE DECONTAMINANT: AMMONIUM HYDROXIDE (0-10%), DETERGENT (2-5%) AND BALANCE WATER; OR SOLUTION OF UNION CARBIDE'S TERGITOL TMN-10 (20%)AND WATER (80%).QPL-46058-49 LISTS SEVERAL CONATHANE ITEMS CE-1164 IS INCLUDED.

===== Physical/Chemica

I Properties =====

HCC:F2

Vapor Pres:3.7-8 MM

Vapor Density:3.7

Spec Gravity:1.05

Solubility in Water:REACTS WITH WATER

Appearance and Odor:CLEAR VISCOUS YELLOW LIQUID,NO ODOR

Percent Volatiles by Volume:40

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS,WATER,AMINES,STRONG BASES,METAL COMPOUNDS,SURFACE ACTIVE MATERIALS.

Stability Condition to Avoid:HIGH STORAGE TEMPERATURES, IGNITION

SOURCES

Hazardous Decomposition Products:CARBON DIOXIDE, CARBON MONOXIDE, TRACES ON HYDROGEN CYANIDE, OXIDES OF NITROGEN, TOLUENE DIISOCYANATE.

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE I/A/W FEDERAL,STATE,LOCAL REGULATIONS.

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