

CONAP INC. -- CONATHANE CE-1164 ( ASTRAUTICS P/N14554-001 -- 5970-01-185-3375  
===== Product Identification =====

Product ID:CONATHANE CE-1164 ( ASTRAUTICS P/N14554-001

MSDS Date:07/21/1989

FSC:5970

NIIN:01-185-3375

MSDS Number: BRPHC

=== 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:ASTRONAUTICS CORP OF AMERICA,414-447-8200

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City:MILWAUKEE

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Phone:414-447-8200

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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 =====

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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

Ingred 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 Sk

in: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 CHEMICAL ASTHMA. PEL FOR TDI IS BELOW THE ODOR

THRESHOLD. SOLVENTS ARE ABSORBED THRO UGH SKIN. CHRONIC BREATHING

OVEREXPOSUREMAY CAUSE PERMANENT CENTRAL NERVOUS SYSTEM DAMAGE KNOWN AS PAINTERS SYNDROME.

Explanation of Carcinogenicity:TOLUENE DIISOCYANA  
TE IS LISTED BY NTP

AND IARC.SEE INDIVIDUAL REPORTS FOR DETAILS.

Effects of Overexposure:EYE: SEVERE IRRITATION. SKIN:CAUSES

IRRITATION,DEFATTING,DERMATITIS, & SENSITIZATION. INHALATION:

CAUSES RESPIRATORY IRRITATION,FLU-LIKE SYMPTOMS.ALLERGIC RESP

REACTION MAY OCCUR IN SENSITIZED PERSONS .CAUSES

DIZZ,WEAKNESS,FATIGUE,NARCOSIS,LOSS OF APPETITE,ETC..INGESTION:G/I

IRRITATION,HEADACHE,NAUSEA,VOMITING,DIARRHEA.

Medical Cond Aggravated by Exposure:PEOPLE SENSITIZED TO TOLUENE

DIISOCYANATE, AND PRE-EXISTING SKIN AND LUNGS DISORDERS MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS MATERIAL.

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

First Aid:EYE:FLUSH W/WATER 15 MIN HOLD LIDS OPEN.SEE A DOCTOR.  
SKIN:REMOVE CONTAMINATED CLOTHING AND LAUNDRER 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

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

Flash Point Method:TCC  
Flash Point:>45F,>7C  
Extinguishing Media:USE CARBON DIOXIDE, FOAM, DRY CHEMICAL  
Fire Fighting Procedures:FULL EMERGENCY EQUIPMENT WITH SCBA SHOULD BE WORN BY FIRE FIGHTERS. DURING FIRE IRRITATING & TOXIC GASES & SMOKE ARE FORMED. ISOLATE FROM IGNITION SOURCES.  
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 =====

Spill Release Procedures:USE APPROPRIATE PERSONAL PROTECTIVE EQUIP. ELIM IGNITION SOURCES. VENTILATE AREA. 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:DECONTAMINANT: 2-5% DETERGENT AND 0-10% AMMONIA, BALANCE WATER. SEE SUPP DATA.

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

Handling and Storage Precautions:STORE IN TIGHTLY CLOSED IN 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 T

HE RESPECT DUE FULL ONES. DO NOT CUT,WELD,ETC.. ON THEM. AVOID SPARKS AND OPEN FLAMES. STORE IN COOL PLACE BECAUSE CLOSED CONTAINERS MAY EXPLODE IN HEAT.

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

Respiratory Protection:USE POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR ANY TIME THE EXPOSURE IS ABOVE THE CEILING, SHORT TERM EXPOSURE LEVEL,OR PEL, AND AT AL TIMES DURING SPRAYING OPERATIONS. OTHER RESPIRATORS MAY BE USED FO R SHORT (1 HOUR) EXPOSURES ONLY

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

Protective Gloves:NEOPREVE RUBBER

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: SOLUTION OF UNION CARBIDE'S TERGITOL TMN-10 (20%) AND WATER(80%). \*\*\*NOTE: ON 20SEP93, ASTRONAUTICS INFORMED HMIS THAT THEY SUPPLIED CONAP CE-1164 FOR THIS NSN, BUT HAD NO MSDS. HMIS OBTAINED IT.

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

HCC:F2

NRC/State Lic Num:NONE

Vapor Pres:3.7/8 MM

Vapor Density:3.7

Spec Gravity:1.05

Solubility in Water:REACTS WIT  
H WATER

Appearance and Odor:CLEAR YELLOW VISCOUS LIQUID,SOLVENT ODOR

Percent Volatiles by Volume:40

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, WATER, ALCOHOLS, 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, O

XIDES OF NITROGEN, TOLUENE  
DIISOCYANATE.

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

Waste Disposal Methods:DISPOSE OF I/A/W FEDERAL,STATE,LOCAL  
REGULATIONS. EMPTY CONTAINERS MUST BE HANDLED WITH CARE DUE TO  
PRODUCT RESIDUE AND FLAMMABLE SOLVENT VAPOR.DECONTAMINATE  
CONTAINERS PRIOR TO DISPOSAL.DO NOT HEAT O R CUT EMPTY CONTAINERS  
WITH ELECTRIC OR GAS TORCH.

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