

DEFT, INC. -- TYPE 1,ALIPHATIC ISOCYANATE -- 8010-01-329-8709

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

Product ID:TYPE 1,ALIPHATIC ISOCYANATE

MSDS Date:07/01/1999

FSC:8010

NIIN:01-329-8709

Status Code:A

MSDS Number: CLGRP

=== Responsible Party ===

Company Name:DEFT, INC.

Address:17451 VON KARMAN AVE

City:IRVINE

State:CA

ZIP:92614

Country:US

Info Phone Num:949-474-0400

Emergency Phone Num:800-424-9300

Preparer's Name:ERNEST CARTER

Chemtrek Ind/Phone:(800)424-9300

CAGE:33461

=== Contractor Identification ===

Company Name:DEFT, INC.

Address:17451 VON KARMAN AVE

City:IRVINE

State:CA

ZIP:92614

Country:US

Phone:949-474-0400

CAGE:33461

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

Ingred Name:C8&10 AROMATIC HYDROCARBON

CAS:64742-95-6

Code:F

RTECS #:WF3400000

= Wt:35.

Ingred Name:POLY(HEXAMETHYLENE DIISOCYANATE)

CAS:28182-81-2

RTECS #:NQ9170000

= Wt:50.

Ingred Name:HEXAM

ETHYLENE DIISOCYANATE

CAS:822-06-0

RTECS #:MO1740000

ACGIH TLV:0.034 MG/M3;.005 PPM

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:N-BUTYL ACETATE

CAS:123-86-4

RTECS #:AF7350000

< Wt:5.

OSHA PEL:710 MG/M3;150 PPM

ACGIH TLV:713 MG/M3;150 PPM

ACGIH STEL:950 MG/M3;200 PPM

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:METHYL N-AMYL KETONE

CAS:110-43-0

RTECS #:MJ5075000

= Wt:35.

OSHA PEL:465 MG/M3;100 PPM

ACGIH TLV:233 MG/M3;50 PPM

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===== Hazards Identification =====
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LD50 LC50 Mixture:NONE

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Health Hazards Acute and Chronic:VAPORS ARE IRRITATING TO EYES, NOSE AND THROAT. INHALATION MAY CAUSE HEADACHES, DIFFICULT BREATHING AND LOSS OF CONSCIOUSNESS. AS A RESULT OF PREVIOUS REPEATED OVEREXPOSURE OR A SINGLE LARGE DOSE, CER TAIN INDIVIDUALS WILL DEVELOP ISOCYANATE SENSITIZATION WHICH WILL CAUSE THEM TO REACT TO A LATER EXPOSURE OF ISOCYANATE LEVELS WELL BELOW THE TLV VALUE OF

ISOCYANATES.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:INHALATION: IRRITATION OF THE RESPIRATORY TRACTAND ACUTE NERVOUS SYSTEM DEPRESSION HEADACHE, DIZZINESS, STAGGERING GAIT, CONFUSION, UNCONSCIOUSNESS OR COMA.SKIN: ISOCYANATESMAY BE SWELLING, REDNESS, A ND RASH. EYES: LIQUID, AEROSOLS, OR VAPORS ARE IRRITATING AND MAY CAUSE TEARING, REDNESS. INGESTION: CAN RESULT IN CORROSIVE ACTION IN THE MOUTH, STOMACH TISSUE AND DIGESTIVE TRACT.

Medical Cond Ag

gravated by Exposure:ASTHMA AND OTHER RESPIRATORY DISORDERS. SKIN ALLERGIES, ECZEMA, AND DERMITITIS. ISOCYANATE SENSITIZATION.

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

First Aid:INHALATION: MOVE TO AN AREA FREE FROM RISK OF FURTHER EXPOSURE.RESTORE BREATHING. SKIN: WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER. EYES: FLUSH WITH CLEAN LUKE WARM WATER (LOW PRESSURE) FOR A T LEAST 15 MINUTES. INGESTION: DO NOT INDUCE VOMITING.

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

Flash Point Method:TCC
Flash Point:=24.4C, 76.F
Autoignition Temp:Autoignition Temp Text:NONE
Lower Limits:1.00%
Upper Limits:7.90%
Extinguishing Media:FOAM, ALCOHOL, FOAM, CO2, DRY CHEMICAL, WATER FOG, WATER SPRAY.
Fire Fighting Procedures:FULL FIRE FIGHTING EQUIPMENT WITH SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING SHOULD BE WORN BY FIRE FIGHTERS.
Unusual Fire/Explosion Hazard:KEEP CONTAINERS TIGHTLY CLOSED.

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

Spill Release Procedures:VENTILATE AREA CONTAIN AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS.
Neutralizing Agent:NONE

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

Handling and Storage Precautions:STORE IN WELL VENTILATED AREAS.
Other Precautions:KEEP CONTAINERS TIGHT AND UPRIGHT TO PREVENT LEAKAGE.

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

Respiratory Prot

ection:A RESPIRATOR THAT IS RECOMMENDED OR APPROVED.

Ventilation:EXHAUST VENTILATION.

Protective Gloves:PROTECTIVE GLOVES: ARE RECOMMENDED.

Eye Protection:SPLASH GUARDS OR SIDE SHIELDS, CHEMICAL GOGGLES OR FACE SHIELDS.

Other Protective Equipment:THE USE OF LONG SLEEVE AND LONG LEG CLOTHING IS RECOMMENDED.

Work Hygienic Practices:NONE

Supplemental Safety and Health
NONE

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

Boiling Pt:B.P. Text:260-335-DEG F.

Melt/Freeze

Pt:M.P/F.P Text:NONE

Decomp Temp:Decomp Text:NONE

Vapor Density:HEAVIER

Spec Gravity:0.97119

VOC Pounds/Gallon:490

Viscosity:THIN LIQUID TO HEAVY.

Evaporation Rate & Reference:0.27 N-BUTYL ACETATE

Solubility in Water:INSOLUBLE

Appearance and Odor:AMBER LIQUID WITH SOLVENT ODOR.

Percent Volatiles by Volume:58.8

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

Stability Indicator/Materials to Avoid:YES

WATER, AMINES, STRONG BASES, ALCOHOLS, METAL COMPOUNDS AND SURFACE
ACTIVE MATERIALS.

Stability Condition to Avoid:CONTACT WITH MOISTURE, MATERIAL WHICH
REACT WITH ISOCYANATES AND HIGH TEMPERATURES.

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE, AND
OXIDES OF NITROGEN, TRACES OF HCN AND HDI.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH
FEDERAL, STATE, AND BE HANDLED WITH CARE.

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Regulatory Information
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SARA Title III Information: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW ACT OF 1986 AND OF 40 CFR 372: 1330-20-7 XYLENE, 100-41-4 ETHYL BENZENE

State Regulatory Information:

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