

DEFT, INC. -- TYPE I, ALIPHATIC ISOCYANATE -- 8010-01-378-6514

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

Product ID:TYPE I, ALIPHATIC ISOCYANATE

MSDS Date:07/01/1999

FSC:8010

NIIN:01-378-6514

Status Code:A

MSDS Number: CLFZL

=== 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:800-424-93

00

Preparer's Name:ERNEST CARTER

Chemtrec 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:POLYMERIC HEXAMETHYLENE DIISOCYANATE

CAS:28182-81-2

Code:F

RTECS #:NQ9170000

= Wt:35.

Ingred Name:HEXAMETHYLENE DIISOCYANATE

CAS:822-06-0

RTECS #:MO1740000

= Wt:40.

ACGIH TLV:0.03

4 MG/M3;.005 PPM  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:C8&10 AROMATIC HYDROCARBON  
CAS:64742-95-6  
Code:F  
RTECS #:WF3400000  
&lt; Wt:5.

Ingred Name:N-BUTYL ACETATE  
CAS:123-86-4  
Code:F  
RTECS #:AF7350000  
&lt; Wt:5.  
OSHA PEL:710 MG/M3;150 PPM  
OSHA STEL:200 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:ETHYL 3-ETHOXYPROPIONATE  
CAS:763-69-9  
Code:F  
RTECS #:UF3325000  
= Wt:20.

=====  
===== Hazards Identification =====  
=====

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, CERTAIN INDIVIDUALS WILL DEVELOP ISOCYANATE SENSITIZATION WHICH WILL CAUSE THEM TO REACT TO A LATER EXPOSURE.

Effects of Overexposure:INHALATION: FOLLOWING PROGRESSIVE STEPS: HEADACHE, DIZZINESS, STAGGERING GAIT, CONFUSION, UNCONSCIOUSNESS OR

COMA. SKIN: SYMPTOMS MAY BE SWELLING, REDNESS, AND RASH. EYES: LIQUID, AEROSOLS, OR VAPORS ARE IRRITATING AND MAY CAUSE TEARING, REDNESS, AND SWELLING ACCOMPANIED BY A STINGING SENSATION. INGESTION: CAN RESULT IN IRRITATION AND POSSIBLE CORROSIVE ACTION IN THE MOUTH, STOMACH TISSUE AND DIGESTIVE TRACT.

Medical Conditions Aggravated by Exposure:ASTHMA AND ANY OTHER RESPIRATORY DISORDERS. SKIN ALLERGIES, ECZEMA, AND DERMATITIS. ISOCYANATE SENSITIZATION.

=



Respiratory Protection: A RESPIRATOR THAT IS RECOMMENDED OR APPROVED FOR USE.

Ventilation: EXHAUST VENTILATION SUFFICIENT.

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

t: 230-420 DEG F

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

Decomp Temp: Decomp Text: NONE

Vapor Density: HEAVIER

Spec Gravity: 1.08163

VOC Pounds/Gallon: 280

Viscosity: THIN LIQUID TO HEAVY

Evaporation Rate & Reference: 0.15 X N-BUTYL ACETATE

Solubility in Water: INSOLUBLE

Appearance and Odor: AMBER LIQUID WITH SOLVENT ODOR

Percent Volatiles by Volume: 30.2

===== 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, AND 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 LOCAL

## AL ENVIRONMENTAL CONTROL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.