

DEFT, INC. -- TYPE 1, ALIPHATIC ISOCYANATE -- 8010-01-265-9143

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

Product ID:TYPE 1, ALIPHATIC ISOCYANATE

MSDS Date:07/01/1999

FSC:8010

NIIN:01-265-9143

Status Code:A

MSDS Number: CLGRQ

=== 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

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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:POLYMERIC HEXAMETHYLENE DIISOCYANATE

CAS:28182-81-2

Code:F

RTECS #:NQ9170000

= Wt:40.

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

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-PROPYL KETONE
CAS:107-87-9
RTECS #:SA7875000
= Wt:45.
OSHA PEL:700 MG/M3;200 PPM
ACGIH TLV:705 MG/M3;200 PPM
ACGIH STEL:881 MG/M3;250 PPM

Ingred Na
me:ETHYL 3-ETHOXYPROPIONATE
CAS:763-69-9
RTECS #:UF3325000
= Wt:5.

Ingred Name:DIBASIC ESTER 5
CAS:1119-40-0
< Wt:5.

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

LD50 LC50 Mixture:NONE
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, CE RTAIN INDIVIDUALS WILL
DEVELOP ISOC

YANATE 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 TRACT
HEADACHE, DIZZINESS, STAGGERING GAIT, CONFUSION, UNCONSCIOUSNESS OR
COMA. SKIN: CONTACT CAN CAUSE SWELLING, REDNESS, AND RASH. EYES:
LIQUID, AEROSOLS, O R 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 Cond Aggravated by Exposure:ASTHMA AND ANY OTHER RESPIRATORY
DIORDERS. 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 THO
ROUGHLY
WITH SOAP AND WATER. EYES: FLUSH WITH CLEAN LUKE WARM WATER (LOW
PRESSURE) FO R AT LEAST 15 MINUTES. INGESTION: DO NOT INDUCE
VOMITING

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

Flash Point Method:TCC
Flash Point:=7.8C, 46.F
Autoignition Temp:Autoignition Temp Text:NONE
Lower Limits:0.90%
Upper Limits:8.00%
Extinguishing Media:FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG,
WATER SPRAY.
Fire Fighting Procedures:FULL PROTECTIVE EQUIPMENT WI
TH 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:EVACUATE ALL NON-ESSENTIAL PERSONNEL. REMOVE
ALL SOURCES OF IGNITION (FLAME, SPARK SOURCES, HOT SURFACES).
VENTILATION 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.

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

Respiratory Protection: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:213-437 DEG F.

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

Decomp Temp:Decomp Text:NONE

Vapor Density:HEAVIER

Spec Gravity:0.94958

VOC Pounds/Gallon:550

Viscosity:THIN LIQUID TO HEAVY

Evaporation Rate & Reference:1.49 X N-BUTYL ACETATE

Solubility in Water:

INSOLUBLE

Appearance and Odor:AMBER LIQUID WITH SOLVENT ODOR.

Percent Volatiles by Volume:65.8

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:HIGH TEMPERATURES, SPARKS, OR OPEN FLAMES.

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

Conditions to Avoid Polymerization:WILL NOT OCCUR.

===== **Disposal Consideration**=====

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Waste Disposal Methods:WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH
FEDERAL, STATE, AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS.

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