

DEFT, INC. -- 3:1,MIL-C-85285,36231,TY I -- 8010-01-329-6755

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

Product ID:3:1,MIL-C-85285,36231,TY I

MSDS Date:01/14/1997

FSC:8010

NIIN:01-329-6755

Status Code:A

MSDS Number: CKWWT

=== 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

C

hemtrec 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:HEXAMETHYLENE DIISOCYANATE

CAS:4035-89-6

RTECS #:NR0195000

= Wt:35.

Ingred Name:HEXAMETHYLENE DIISOCYANATE

CAS:28182-81-2

RTECS #:NQ9170000

= Wt:40.

Ingred Name:C8&10 AROMATIC HYDROCARBON

CAS:64742-95-6

RTECS #:W

F3400000

< Wt:5.

Ingred Name:N-BUTYL ACETATE

CAS:123-86-4

RTECS #:AF7350000

< Wt:5.

OSHA PEL:150 PPM

OSHA STEL:200 PPM

ACGIH TLV:150 PPM

ACGIH STEL:200 PPM

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:ETHYL 3-ETHOXYPROPANOATE

CAS:763-69-9

RTECS #:UF3325000

= Wt:20.

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

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

Health Hazards Acute and Chronic:AS A RESULT OF PREVIOUS REPEATED
OVEREXPOSURE OR A SI

NGLE LARGE DOSE, CERTAIN INDIVIDUALS WILL

DEVELOP ISOCYANATE SENSITIZATION WICH WILL CAUSE THEM TO REACT TO A
LATER EXPOSURE OF ISOCYANATE LEVELS W ELL BELOW THE TLV VALUE.

VAPORS ARE IRRITATING TO THE EYES, NOSE AND THROAT. INHALATION MAY
CAUSE HEADACHES, DIFFICULT BREATHING AND LOSS OF CONSIIOUSNESS.

Effects of Overexposure:SKIN ABSORBTION: PROLONGED OR REPEATED CONTACT
CAN CAUSE THE SKIN TO CRACK.INHALATION: IRRI. OF THE RESPIRATORY
TRACT AND ACUTE NERVOUS SYSTEM DEPRE

SSION CHARACTERIZED BY

HEADACHE,DIZZINESS,STAGGERING GAIT,CONFUSION.SKIN:ISOCYANATES
REACT WITH SKIN PROTIEEN AND MOISTURE AND CAN CAUSE IRR.SYMPTOMS MAY
BE SWELLING, REDNESS AND RASH.EYES:LIQUID AREOSOLS OR VAPORS ARE
IRR AND MAY CAUSE TEARING, REDNESS AND SWELLING ACCOMPANIED BY A
STINGING SENSATION. INGESTION: CAN RESULT IN IRR. AND POSSIABLE
CORROSIVE ACTION IN THE MOUTH, STOMACH TISSUE AND DIGESTIVE TRACT.
VOMITING MAY CAUSE ASPIRATION OF THE S OLVENT, RESULTING

IN

CHEMICAL PNEUMONIA.

Medical Cond Aggravated by Exposure:ASTHMA AND ANY OTHER RESPIRATORY DISORDERS. SKIN ALLERGIES, ECZEMA AND DERMITITIS.

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

First Aid:INHALATION: MOVE TO AN AREA FREE FROM RISK OF FURTHER EXPOSURE. RESTORE BREATHING. ASTHMATIC TYPE SYMPTOMS MAY DEVELOP AND MAY BE IMMEDIATE OR DELAYED BY SEVERAL HOURS. OBTAIN MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH AFFECTED AREAS T

HROUGHLY WITH SOAP AND WATER. WASH CONTAMINATED CLOTHING THOROUGHLY BEFORE REUSE. EYES: FLUSH WITH CLEAN LUKEWARM WATER FOR AT LEAST 15 MINITUES, OCC ASIONALLY LIFTING EYELIDS. OBTAIN MEDICAL ATTENTION. INGESTION: CO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING TO AN UNCONSCIOUS PERSON. OBTAIN MEDICAL ATTENTION.

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

Flash Point Method:TCC

Flash Point:=24.4C, 76.F
45F

Lower Limits:1.00

Upper Limits:7.60

Extinguishing M

edia:FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG,
WATER SPRAY

Fire Fighting Procedures:FULL FIRE FIGHTING EQUIPMENT WITH SCBA AND FULL PROTECTIVE CLOTHING SHOULD BE WORN BY FIRE FIGHTERS. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PROVENT PRESSURE BUILD-UP, AUTO IGNITION OR EXPLOSIO N.

Unusual Fire/Explosion Hazard:KEEP CONT TIGHTLY CLOSED. ISOLATE FROM HEAT, SPARKS, ELECTRICAL EQUIP AND OPEN FLAME. CLOSED CONT MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. APPLICATIO

N TO HOT SURFACES

REQUIRES SPECIAL PRECAUTIONS. DU RING EMERGENCY CONDS OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMM APPARENT.

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

Spill Release Procedures:EVACUATE ALL NON-ESSENTIAL PERSONNEL. REMOVE ALL SOURCES OF IGNITION. VENTILATE AREA. CONTAIN AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS.

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

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Handling and Storage Precautions:STORE IN BUILDINGS DESIGNED TO COMPLY WITH OSHA. AVOID STORING NEAR HIGH TEMPERATURES, FIRE, OPEN FLAMES AND SPARK SOURCES. STORE IN TIGHTLY CLOSED CONTAINERS. STORE IN WELL VENTILATED AREAS.

Other Precautions:KEEP CONTAINERS TIGHTLY CLOSED AND UPRIGHT TO PREVENT LEAKAGE. PREVENT PROLONGED BREATHING OF VAPORS OR SPRAY MISTS. DO NOT HANDLE TILL ALL PRECAUTIONS HAVE BEEN READ. WASH HANDS AFTER HANDLING.

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

Respiratory Protection:A RESPIRATOR THAT IS APPROVED FOR AN ORGANIC ENVIRONMENT.

Ventilation:EXHAUST

Protective Gloves:COTTON, NEOPRENE, RUBBER, POLYETHYLENE

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. REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REUSE.
Supplemental Safety and Health

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

Boiling Pt:=126.7C, 260.F

B.P. Text:260-428 DEG F

Vapor Density:+ AIR

Spec Gravity:1.08163

VOC Pounds/Gallon:281

Viscosity:THIN LIQUID TO HEAVY

Evaporation Rate & Reference:N-BUTYL ACETATE 0.15

Solubility in Water:INSOLUBLE

Appearance and Odor:AMBER LIQUID WITH SOLVENT ODOR

Percent Volatiles by Volume:30.1

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

Stability Indicator/Materials to Avoid:YES

WATER, AMINES, STRONG BASES, ALCOHOLS, METAL CO

MPOUNDS 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.

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

Waste Disposal Methods:WASTE MUST BE DISPOSED OF WITH FEDERAL, STATE
AND LOCAL ENVIORNMENTAL CONTROL REGULATIONS. EMPTY CONTAINERS MUST
BE HANDLED W
ITH CARE DUE TO PRODUCT RESIDUE AND FLAMMABLE VAPOR. DO
NOT INCINERATE CLOSE D CONTAINERS.

===== Other Information =====

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