

DEFT, INC. -- TYPE II, ALIPHATIC ISOCYANATE -- 8010-01-293-1369

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

Product ID:TYPE II, ALIPHATIC ISOCYANATE

MSDS Date:07/01/1999

FSC:8010

NIIN:01-293-1369

Status Code:A

MSDS Number: CLPTS

=== 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:800-424-9

300

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:ETHYL 3-ETHOXYPROPIONATE

CAS:763-69-9

RTECS #:UF3325000

= Wt:10.

Ingred Name:POLY(HEXAMETHYLENE DIISOCYANATE)

CAS:28182-81-2

RTECS #:NQ9170000

= Wt:60.

Ingred Name:C8&10 AROMATI

C 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:25.
OSHA PEL:700 MG/M3;200 PPM
ACGIH TLV:705 MG/M3;200 PPM
ACGIH STEL:881 MG/M3;250 PPM

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

Reports

of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:VAPORS ARE IRRITATING TO EYES, NOSE,
AND THROAT. INHALTION 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 ISOCYANATE SENSITIZATION WHICH WILL CAUSE THEM TO REACT TO
A LATER EXPOSURE OF ISOCYANATE LEVELS WELL BELOW THE TLV VALUE OF
ISOCYANATES.

Effects of Overexposure:IN
HALATION: IRRITATION OF THE RESPIRATORY TRACT
HEADACHE, DIZZINESS, STAGGERING GAIT. SKIN: CAN CAUSE SWELLING,
REDNESS, AND RASH. EYES: VAPORS MAY CAUSE TEARING, REDNESS, AND
SWELLING ACCOMPANIED BY A STINGING SENSATION. INGESTION: CAN
RESULT IN CORROSIVE ACTION IN THE MOUTH, STOMACH TISSUE AND
DIGESTIVE TRACT.

Medical Cond Aggravated by Exposure:ASTHMA AND ANY RESPIRATORY
DISORDERS. SKIN ALLERGIES, AND DERMATITS.

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

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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 CONTAMIONATED CLOTHING. WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER.EYES: FLUSH WITH CLEAN LUKE WARM WATER (LOW PRESSURE) FOR AT LEAST 15 MINUTES , OCCASIONALLY LIFTING EYELIDS.OBTAIN MED ICAL ATTENTION.INGESTION: DO NOT INDUCE VOMITIN
G. DO NOT GIVE ANYTHING TO AN UNCONSCIOUS PERSON. OBTAIN MEDICAL ATTENTION.

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

Flash Point Method:TCC
Flash Point:=7.8C, 46.F
Lower Limits:1.00%
Upper Limits:8.00%
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. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUIL D UP AUTO IGNITION OR PLOSION. DURING A FIRE HDI VAPORS AND OTHER IRRITATING VAPORS MAY BE GENERATED BY COMBUSTION OR
Unusual Fire/Explosion Hazard:KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, SPARKS, ELECTRICAL EQUIPMENT AND OPEN FLAME, CLOSED CONTAINERS MAY EXPLODE TO EXTREME HEAT. APPLICATION TO HOT SURFACES REQUIRES SPECIAL PRECAUTIONS . DURING EMERGENCY CONDITIONS OVEREXPOSURE TO DECOMPOSITION PRODU CTS MAY CAUSE A HEALTH HAZARD.

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

Spill Release Procedures:EVACUATE ALL NON-ESSENTIAL PERSONNEL. REMOVE ALL SOURCES OF IGNITION (FLAME, SPARK SOURCES, HOT SURFACES).VENTILATE AREA CONTAIN AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS.

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

Handling and Storage Precautions:STORE IN TIGHTLY CLOSED CONTAINERS. STORE IN BUILDINGS DESIGNED TO COM

PLY WITH OSHA 1910.106. AVOID

STORING NEAR HIGH TEMPERATURES, FIRE, OPEN FLAMES AND SPARK SOURCES.

Other Precautions:KEEP CONTAINERS TIGHT AND UPRIGHT TO PREVENT LEAKAGE. EMPTY CONTAINERS MUST BE HANDLED WITH CARE DUE TO PRODUCT RESIDUE AND FLAMMABLE VAPOR. DO NOT INCINERATE CLOSED CONTAINERS.

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

Respiratory Protection:A RESPIRATOR IS RECOMMENDED OR APPROVED FOR USE IN AN ORGANIC VAPOR ENVIRONMENT (AIR PURIFYING OR FRESH AIR SUPPLIED) IS NECESSARY. OBSERVE OSHA REGULATIONS FOR RESPIRATOR USE.

Ventilation:EXHAUST VENTILATION SUFFICIENT TO KEEP AIRBORNE CONCENTRATIONS OF SOLVENT, HDI AND POLYISOCYANATES BELOW THEIR RESPECTIVE TLVS.

Protective Gloves:PROTECTIVE GLOVES (COTTON, NEOPRENE, RUBBER, POLYETHYLENE)

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

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

Supplemental Safety and Health

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

Boiling Pt:B.P. Text:213-330 DEG F

Vapor Density:HEAVIER

Spec Gravity:1.0072

VOC Pounds/Gallon:425

VOC Grams/Liter:8.39

Viscosity:THIN LIQUID TO HEAVY

Evaporation Rate & Reference:1.25 X N-BUTYL ACETATE

Solubility in Water:INSOLUBLE

Appearance and Odor:AMBER LIQUID WITH SOLVENT ODOR

Percent Volatiles by Volume:50.2%

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

Stabi

lity 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.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH

FEDERAL, STATE, AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS.

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