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

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

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 =========

- 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:R EMOVE 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.

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 PURIFY) NG OR FRESH AIR SUPPLIED) IS NECESSARY. OBSERVE OSHA REGULATIONS FOR RESPIRATOR 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 & Dr. 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 DISP
OSED OF IN ACCORDANCE WITH
FEDERAL, STATE, AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS.

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