

DEFT, INC. -- TYPE I, ALIPHATIC ISOCYANATE MIL-PRF-85285C (MIL-C-85285B) -- 8010-01-359-9247

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Product Identification
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Product ID:TYPE I, ALIPHATIC ISOCYANATE MIL-PRF-85285C (MIL-C-85285B)

MSDS Date:10/14/1997

FSC:8010

NIIN:01-359-9247

Status Code:A

MSDS Number: CLPHT

=== Responsible Party ===

Company Name:DEFT, INC.

Address:17451 VON KARMAN AVE

City:IRVINE

State:CA

ZIP:92614

Country:U

S

Info Phone Num:949-474-0400

Emergency Phone Num:800-424-9300

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

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Composition/Information on Ingredients
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Ingred Name:POLY(HEXAMETHYLENE DIISOCYANATE)

CAS:28182-81-2

RTECS #:NQ9170000

= Wt:35.

Ingred Name:C8&10 AROMATIC HYDROCARBON

CAS:6

4742-95-6
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:ETHYL 3-ETHOXYPROPIONATE
CAS:763-69-9
RTECS #:UF3325000
= Wt:20.

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

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
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, CER TAIN 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:INHALATION: IRRITATION OF RESPIRATORY TRACT
NERVOUS SYSTEM DEPRESSION CHARATERIZED BY THE FOLLOWING P
ROGRESSIVE

STEPS: HEADACHE, DIZZINESS, STAGGERING GAIT. SKIN:ISOCYANATES
REACT 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 TRAC T.

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

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

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First Aid:INHALATION: MOVE TO AN AREA FREE FROM RISK OF FURTHER EXPOSURE. RESTORE BREATHING. OBTAIN MEDICAL ATTENTION.SKIN:REMOVE CONTAMINATED CLOTHING. WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER.WASH C ONTAMINATED CLOTHING THOROUGHLY BEFORE REUSE.EYES: FLUSH WITH CLEAN LUKE WARM WATER (LOW PRESSURE) FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING EYELIDS.OBTAIN MEDICAL ATTENTION.INGESTION: DO NOT INDU CE VOMITING. DO NOT GIVE ANYTHING TO AN U NCONSCIOUS PERSON. OBTAIN MEDICAL ATTENTION.

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

Flash Point Method:TCC

Flash Point:=24.4C, 76.F

Lower Limits:1.00%

Upper Limits:7.60%

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 BUILD UP, AUTO IGNITION OR EXPLOSION. DURING A FIRE HDI VAPORS AND OTHER IRRITATING VAPORS MAY BE GENERATED BY COMBUSTION

Unusual Fire/Explosion Hazard:KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, SPARKS, ELECTRICAL EQUIPMENT AND OPEN FLAME. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. APPLICATION TO HOT SURFACES REQUIRES SPECIAL PRECAUTIONS. DURING EMERGENCY CONDITIONS OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEA

LTH 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.

Other Precautions:KEEP CONTAINERS TIGHT AND UPRIGHT TO PR

EVENT LEAKAGE.

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

Respiratory Protection:A RESPIRATOR THAT 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. VAPOR PARTICULATE RESPIRATOR MAY BE APPROPRIATE WHERE AIR MONITORING DEMONSTRATES VAPOR LEVELS BELOW 10 TIMES APPLIC EXPOSURE LIMITS.

Ventilation:EXHAUST VENTILATION SHOULD BE PROVIDED TO KEEP EXPOSURE

LEVELS BELOW THE OSHA PELs. AIRBORNE CONC. OF SOLVENT, HDI, POLYISOCYANATES BELOW RESPECTIVE TLVS.

Protective Gloves: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 ANDLONG LEG CLOTHING IS RECOMMENDED.

Work Hygienic Practices:REMOVE ALL IGNITION SOURCES, HEAT, SPARKS, FLAME, HOT SURFACES.

Supplemental Safety and Health

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

Boiling Pt:B.P. Text:260-428 DEG F

Vapor Density:HEAVIER

Spec Gravity:1.08163

VOC Pounds/Gallon:281

VOC Grams/Liter:9.01

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:30.1%

===== 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, 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 ENVIRONMENTAL CONTROL REGULATIONS. EMPTY CONTAINERS MUST BE HANDLED WITH CARE, DUE TO PRODUCT RESIDUE AND FLAMMABLE VAPOR. DO NOT INCINERATE CLOSED CONTAINERS.

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