

DEFT, INC. -- ALIPHATIC ISOCYANATE CAT, MIL-C-85285B, 34102, TY I -- 8010-01-397-3971

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Product Identification  
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Product ID:ALIPHATIC ISOCYANATE CAT, MIL-C-85285B, 34102, TY I

MSDS Date:11/26/1996

FSC:8010

NIIN:01-397-3971

Status Code:A

MSDS Number: CLJHM

=== Responsible Party ===

Company Name:DEFT, INC.

Address:17451 VON KARMAN AVE

City:IRVINE

State:CA

ZIP:92614

Country:US

Info Phone N

um:949-474-0400

Emergency Phone Num:(800)424-9300

Preparer's Name:HENRY SIMMONS

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:ALIPHATIC ISOCYANATE

CAS:4035-89-6

RTECS #:NR0195000

= Wt:35.

Ingred Name:ALIPHATIC ISOCYANATE

CAS:28182-81-2

RTECS #:NQ9170000

= Wt

:40.

Ingred Name:C8&10 AROMATIC HYDROCARBON  
CAS:64742-95-6  
RTECS #:WF3400000  
&lt; Wt:5.

Ingred Name:N-BUTYL ACETATE  
CAS:123-86-4  
RTECS #:AF7350000  
&lt; 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.

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

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

f Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: VAPORS ARE IRRITATING TO EYES,  
NOSE, AND THROAT. INHALATION MAY CAUSE HEADACHE, DIFFICULT  
BREATHING AND LOSS OF CONSCIOUSNESS. CHRONIC: AS A RESULT OF  
PREVIOUS REPEATED OVEREXPOSURE OR A SINGL E LARGE DOSE, CERTAIN  
INDIVIDUALS WITH DEVELOP ISOCYANATE SENSITIZATION WHICH WILL CAUSE  
THEM TO REACT TO A LATER EXPOSURE OF ISOCYANATE LEVELS BELOW THE  
TLV VALUE OF ISOCYANATES.

Effects of Overexp

posure:INHALATION: IRRITATION OF THE RESPIRATORY TRACT  
& ACUTE NERVOUS SYSTEM DEPRESSION. SKIN AND EYE CONTACT: ISOCYANATE  
REACT WITH PROTEIN AND MOISTURE AND CAUSE IRRITATION. SYMPTOMS MAY  
BE SWELLING, REDN ESS, AND RASH. EYES: LIQUID, AEROSOLS OR VAPORS  
ARE IRRITATING AND MAY CAUSE TEARING, REDNESS, AND SWELLING  
ACCOMPANIED BY A STINGING SENSATION. SKIN ABSORPTION: PROLONGED AND  
REPEATED CONTACT CAN CAU SE MODERATE IRRITATION, DRYING, AND  
DEFATTING OF THE SKIN WHICH

CAN CAUSE THE SKIN TO CRACK. INGESTION:

CAN RESULT IN IRRITATION AND POSSIBLE CORROSIVE ACTION IN THE MOUTH, STOMACH TISSUE AND DIGESTIVE TRACT.

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

===== 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 CONDITION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER. WASH CONTAMINATED CLOTHES BEFORE REUSE. EYES: FLUSH WITH CLEAN LUKEWARM WATER (LOW PRESSURE) FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING EYELIDS. OBTAIN MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING TO AN UNCONSCIOUS PERSON. OBTAIN MEDICAL ATTENTION.

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===== 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. DU

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 OVEREXPOSURES TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD.

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

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

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

Handling and Storage Precautions:STORE IN BUILDINGS DESIGNED TO COMPLY WITH OSHA 1910.106. 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 TIGHT AND UPRIGHT TO PREVENT LEAKAGE. PREVENT PROLONGED BREATHING OF VAPORS OR SPRAY MISTS. PROLONGED OVEREXPOSURE MAY CAUSE AN ALLERGIC REACTION. AVOID CONTACT WITH SKIN AND EYES. DO NOT TAKE INTERNALLY. DO NOT HANDLE UNTIL THE MANUFACTURERS SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD.

===== 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.

Ventilation:EXHAUST VENTILATION SUFFICIENT TO KEEP THE AIRBORNE CONCENTRATION OF SOLVENT, HDI AND POLYISOCYANATE BELOW THEIR RESPECTIVE TLV'S MUST BE UTILIZED.

Protective Gloves:PROTECTIVE GLOVES ARE RECOMMENDED

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

Other Protective

Equipment:THE USE OF LONG SLEEVES AND LONG LEG CLOTHING IS RECOMMENDED. REMOVE AND WASH CONTAMINATED CLOTHING BEFORE.

Supplemental Safety and Health

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

Boiling Pt:=126.7C, 260.F

B.P. Text:260-428F

Vapor Density:> AIR

Spec Gravity:1.08163

VOC Pounds/Gallon:281

VOC Grams/Liter:9.01

Viscosity:THIN TO HEAVY MATERIAL

Evaporation Rate & Reference:0.15 X N-BUTYL ACETATE

Solubility in Water:INSOLUBLE

Appearance and Odor

dor: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.

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

Waste Disposal Methods:WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS. EMPTY CONTAINERS MUST BE HANDLE WITH CARE, DUE TO PRODUCT RESIDUE AND FLAMMABLE VAPOR. DO NOT INCINERATE CLOSED CONTAINERS.

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