

DEFT, INC. -- TYPE I, ALIPHATIC ISOCYANATE CAT.MIL-PRF-85285C, 15044,TY I -- 8010-01-329-8709
===== Product Identification =====

Product ID:TYPE I, ALIPHATIC ISOCYANATE CAT.MIL-PRF-85285C, 15044,TY I
MSDS Date:07/01/1999
FSC:8010
NIIN:01-329-8709
Status Code:A
MSDS Number: CLKST
=== 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
Preparer's Name:RYAN MICKELSON
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:C8&10 AROMATIC HYDROCARBONS
CAS:64742-95-6
Code:F
RTECS #:WF3400000
= Wt:15.

Ingred Name:POLYMERIC HEXAMETHYLENE DIISOCYANAT
CAS:28182-81-2
Code:F
RTE

CS #:NQ9170000
= Wt:50.

Ingred Name:HEXAMETHYLENE DIISOCYANATE
CAS:822-06-0
RTECS #:MO1740000
ACGIH TLV:0.034 MG/M3;.005 PPM
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

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-AMYL KETONE
CAS:110-43-0
RTECS #:MJ5075000
= Wt:35.
OSHA PEL:465 MG/M3;100 PPM
ACGIH TLV:233 MG/M3;50 PPM

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: VAPORS ARE IRRITATING TO EYES,
NOSE, AND THROAT. INHALATION MAY CAUSE HEADACHES, DIFFICULT
BREATHING AND LOSS OF CONSCIOUSNESS. CHRONIC: AS A RESULT OF
PREVIOUS REPEATED OVEREXPOSURE OR A SINGLE LARGE DOSE, CERATIAN
INDIVIDUALS WILL DEVELOP ISOCYNAT SENSITIZATION WHICH WILL CA
USE
THEM TO REACT TO A LATER EXPOSURE OF ISOCYNATE LEVELS WELL BELOW
THE TLV VALUE OF ISOCYNATES.
Effects of Overexposure:INHALATION: IRRITATION OF THE RESPIRATORY TRACT
& ACUTE NERVOUS SYSTEM DEPRESSION CHARECTERIZED BY THE FOLLOWING
PROGRESSIVE STEPS: HEADACHE, DIZZINESS, STAGGERING GAIT, CONFUSION,
UNCONSCIOUSNESS OR COMA. SKIN AND EYE CONTACT: SKIN: ISOCYNATES
REACT WITH SKIN PROTEIN AND MOISTURE AND CAN CAUSE IRRITATION.
SYMPTOMS MAY BE SWELLING, REDNESS, AND RA

SH. EYES: LIQUID, ARESOLS, ORVAPORS ARE IRRITATIN G AND MAY CAUSE TEARING, REDNESS AND SWELLING ACCOMPANIED BY A STINGING SENSATION. SKIN ABSORPTION: PROLONGED OR REPEATED CONTACT CAN CAUSE MODERATE IRRITATION, DRYING, AND DEFATTING OF THE SKIN WHIC H CAN CAUSE THE SKIN TO CRACK. INGESTIO

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

===== First Ai
d 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. SKI N: REMOVE CONTAMINATED CLOTHING. WASH AFFECTED AREA THOROUGHLY WITH SOAP AND WATER. WASH CONTAMINATED CLOTHING THOROUGHLY BEFORE REUSE. EYES: FLUSH WITH CLEAN LUKEWARM WATER (LOW PRESSURE) FOR AT LE AST 15 MINUTES, OCCASIONALLY LIFTING EYELIDS. OBTAIN MEDICAL ATTENTION. INGESTION: DO 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

Lower Limits:1.00%

Upper Limits:7.90%

Extinguishing Media:FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG, WATER SPRAY

Fire Fighting Procedures:FULL FIRE FIGHTING EQUIPMENT WITH SELF-CONTAINED BREATHING APPAR

ATUS 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 OR T

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
HEALTH HAZARD. SYMPTOMS MAY

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

Spill Release Procedures: STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED
OR SPILLED 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
TOOL.
LS.

===== 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

Other Precautions: KEEP CONTAINERS TIGHT AND UPRIGHT TO PREVENT LEAKAGE.
PREVENT PROLONGED BREATHING OF VAPORS OF 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.
WASH HANDS

===== 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 SHOULD BE PROVIDED TO KEEP EXPOSURE LEVELS BELOW

THE RECOMMENDED. A VAPOR PARTICULATE RESPIRATOR (TC23C NIOSH/MSHA)
MAY BE APPROPRIATE WHERE AIR MONITORING DEMONSTRATES

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

Protective Gloves: COTTON, NEOPRENE, RUBBER, POLYETHYLENE

Eye Protection: INCLUDING 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:B.P. Text:260-335 DEG F

Spec Gravity:0.97119

Evaporation Rate & Reference:0.27 X N-BUTYL ACETATE

Solubility in Water:INSOLUBLE

Appearance and Odor:AMBER LIQUID WITH SOLVENT ODOR

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

Stability Indicator/Materials to A

void:YES

WATER, AMINES, STRONG BASES, ALCOHOLS, METAL COMPOUNDS AND SURFACE ACTIVE MATERIALS.

Stability Condition to Avoid:CONTACT WITH MOISTURE, MATERIAL WHICH REACT WITH ISOCYONATES AND HIGH TEMPERATURES.

Hazardous Decomposition Products:BY HIGH HEAT/TEMPERATURE. 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 ENVIROMENTAL CONTROL REGULATIONS. EMPTY CONTAINERS MUST BE HANDLED WITH CARE, DUE TO PRODUCT RESIDUE AND FLAMMABLE VAPOR. DO NOT INCINERATE CLOSED CONTAINERS.

===== Regulatory Information =====

State Regulatory Information:

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