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Product ID:TYPE I, ALIPHATIC ISOCYNATE CAT MIL-PRF-85285C

MSDS Date:10/15/1997

FSC:8010

NIIN:01-397-3944 Status Code:A

MSDS Number: CLKTC === 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: POLYMERIC HEXAMETHYLENE DISOCYANAT

CAS:28182-81-2

Code:F

RTECS #:NQ9170000

= Wt:45.

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:TOLUENE

CAS:108-88-3

RTECS #:XS5250000

= Wt:15.

OSHA PEL:SEE TABLE Z-2 ACGIH TLV:188 MG/M3;50 PPM

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name: METHYL ETHYL KETONE

CAS:78-93-3

RTECS #:EL6475000

= Wt:20.

OSHA PEL:590 MG/M3;200 PPM ACGIH TLV:590 MG/M3;200 PPM ACGIH STEL:885 MG/M3;300 PPM

EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

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

Routes of Entry: Inhalation:YES S

kin: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 SIN GLE LARGE DOSE, CERTAIN INDIVIDUALS WILL DEVELOP ISOCYNATE SENSITIZATION WHICH WILL CAUSE THEM TO REACT TO A LATER EXPOSURE OF ISOCYNATE LEVELS WELL BELOW THE TLV VALU

E OF ISOCYNATES.

Effects of Overexposure:INHALATION: IRRITATION OF THE RESPIRATORY TRACT AND ACUTE NERVOUS SYSTEM DEPRESSION CHARECTERIZED BY THE FOLLOWING PROGRESSIVE STEPS: HEADACHE, DIZZINESS, STAGGERING GAIT, CONFUSION, UNCONSCIOUS OR CO MA. SKIN AND EYE CONTACT: SKIN: ISOCYNATES REACT WITH SKIN AND PROTEIN AND MOISTURE AND CAN CAUSE IRRITATION. SYMPTOMS MAY BE SWELLING, REDNESS, AND RASH. EYES: LIQUID, AERESOLS, OR VAPORS ARE IRRIT ATING AND MAY CAUSE TEARING, REDN

ESS,

AND SWELLING ACCOMPANIED BY A STINGING SENSATION. SKIN ABSORPTION: PROLONGED OR REPEATED CONTACT CAN CAUSE MODERATE IRRITATION, DRYING, AND DEFATTING OF THE SKI N WHICH CAN CAUSE THE SKIN TO CRACK. IN

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

First Aid:INHALATION: MOVE TO AN AREA FREE FROM RISK OF FURTHER

EXPOSURE. RESTORE BREATHING. ASTHMATIC TYPE SYMPTOMS MAY DEVELOP AND MAY BE IMMEDIATE OF DELAYED BY SEVERAL HOURS. OBTAIN MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER WASH CONTAMINATED CLOTHING. WASH AFFECTED AREAS THOROUGHLY BEFORE REUSE EYES: FLUSH WITH CLEAN LUKEWARM WATER (LOW P RESSURE) FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING EYELIDS. OBTAIN MEDICAL ATTENTION.

INGESTION: DO NOT IN

DUCE VOMINTING. DO NOT GIVE ANYTHING TO AN UNCONSCIOUS PERSON. OBTAIN MEDICAL ATTENTION.

Flash Point Method:TCC Flash Point:=7.2C, 45.F Lower Limits:1.00% Upper Limits:8.00%

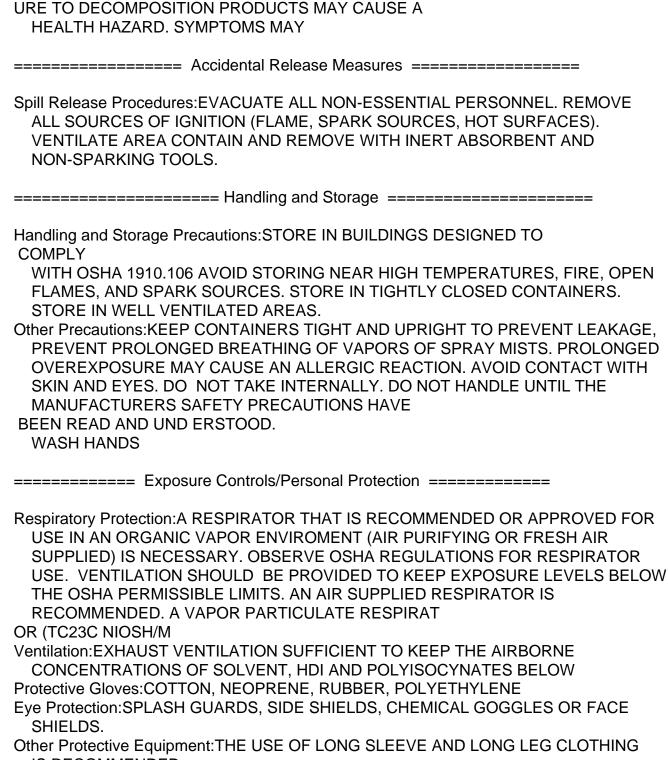
Extinguishing Media:FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG, WATER SPRAY

Fire Fighting Procedures:FULL FIRE FIGHTING EQUIPMENT WITH SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOHTING SHOULD BE WORN BY FIRE FIGHTERS WA

TER 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 OVEREXPOS



IS RECOMMENDED.

Supplemental Safety and Health

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

Boiling Pt:B.P. Text:230-

Spec Gravity:0.93397
Evaporation Rate & Description R
Solubility in Water:INSOLUBLE
Appearance and Odor:AMBER LIQUID WITH SOLVENT ODOR
========= 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 ISOCYNATES AND HIGH TEMPERATURES
Hazardous Decomposition Products:
BY HIGH HEAT/TEMPERATURES: 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 RESIDUES AND FLAMMABLE VAPOR DO NOT INCINERATE CLOSED CONTAINERS.
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SARA Title III Information:THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY TO KNOW 1986 AND 40 CFR 372: 108-83-3 TOLUENE, 108-20-3 METHYL ISOBUTYL KETONE
State Regulatory Information:THIS PRODUCT CONTAINS A CHEMICAL KNOWN BY THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. 108-83-3.
====== Other Information =====
Disclaimer (provided with this information by the compiling agencies):

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