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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 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 &It; 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

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 SING LE 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

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.

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 EQUIMENT 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 FOULPMENT AND OPEN FLAME. CLOSED

FROM HEAT, SPARKS, ELECTRICAL EQUIPMENT AND OPEN FLAME. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. APPLICATION TO HOT SURFACES

REQUIRES SPECIA L PRECATIONS. DURING EMERGENCY CONDITIONS OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY

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 TOO

LS.

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 CO
- NTACT WITH

SKIN AND EYES. DO NOT TAKE INTERNALLY. DO NOT HANDLE UNTIL THE MANUFACTURERS SAFETY PRECAUTIONS HAVE BEEN READ AND UND ERSTOOD. WASH HANDS

Respiratory Protection: A RESPIRATOR THAT IS RECOMMENDED OR APPROVED FOR USE IN ON ORGANIC VAPOR ENVIROMENT (AIR PURIFYING OR FRESH AIR SUPPLIED) IS NECESSARY. OBSERVE OSHA REGULATIONS FOR RESPIRATOR USE. VENTILATION SHOULD BE PROVIDED TO KEEP EXPOSURE LE VELS BELOW

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

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

Protective Gloves:COTTON, NEOPRENE, RUBBER, POLYETHYLENE

Eye Protection: INCLUDING SPLASH GUARDS OF 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

Boiling Pt:B.P. Text:260-335 DEG F Spec Gravity:0.97119 Evaporation Rate & amp; Reference:0.27 X N-BUTYL ACETATE Solubility in Water:INSOLUBLE Appearance and Odor:AMBER LIQUID WITH SOLVENT ODOR

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.

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.

State Regulatory Information:

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