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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

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

Routes of Entry: Inhalation:YES Sk

in: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 VALUE

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, REDNE SS, 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 IND UCE 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 WAT ER 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 OVEREXPOSU

RE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY

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 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 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 UND ERSTOOD. WASH HANDS Respiratory Protection: A RESPIRATOR THAT IS RECOMMENDED OR APPROVED FOR USE IN AN ORGANIC VAPOR ENVIROMENT (AIR PURIFYING OR FRESH AIR SUPPLIED) IS NECESSARY. OBSERVE OSHA REGULATIONS FOR RESPIRATOR

USE. VENTILATION SHOULD BE PROVIDED TO KEEP EXPOSURE LEVELS BELOW THE OSHA PERMISSIBLE LIMITS. AN AIR SUPPLIED RESPIRATOR IS RECOMMENDED. A VAPOR PARTICULATE RESPIRATO R (TC23C NIOSH/M Ventilation:EXHAUST VENTILATION SUFFICIENT TO KEEP THE AIRBORNE CONCENTRATIONS OF SOLVENT, HDI AND POLYISOCYNATES BELOW Protective Gloves:COTTON, NEOPRENE, RUBBER, POLYETHYLENE Eye Protection:SPLASH GUARDS, SIDE SHIELDS, CHEMICAL GOGGLES OR FACE SHIELDS.

Other Protective Equipment: THE USE OF LONG SLEEVE AND LONG LEG CLOTHING IS RECOMMENDED.

Supplemental Safety and Health

Boiling Pt:B.P. Text:230-4

26 DEG F Spec Gravity:0.93397 Evaporation Rate & amp; Reference:1.39 Solubility in Water:INSOLUBLE Appearance and Odor:AMBER LIQUID WITH SOLVENT ODOR

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:B

Y HIGH HEAT/TEMPERATURES: 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 RESIDUES AND FLAMMABLE VAPOR DO NOT INCINERATE CLOSED CONTAINERS.

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

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.

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