

DEFT, INC. -- POLYURETHANE MIL-C-46168D, 37038M TY II -- 8010-01-144-9879

===== Product Identification =====

Product ID:POLYURETHANE MIL-C-46168D, 37038M TY II

MSDS Date:05/30/2000

FSC:8010

NIIN:01-144-9879

Status Code:A

MSDS Number: CLKTF

=== 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:ETHYL 3-ETHOXYPROPIONATE

CAS:763-69-9

RTECS #:UF3325000

= Wt:5.

Ingred Name:N-BUTYL ACETATE

CAS:123-86-4

RTECS #:AF7350000

= Wt:25.

OSHA PEL:710 MG/M3;150 PPM

ACGIH TLV:713 MG/M3;150 PPM

ACG

IH STEL:950 MG/M3;200 PPM  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:C8&10 AROMATIC HYDROCARBONS  
CAS:64742-95-6  
Code:F  
RTECS #:WF3400000  
&lt; Wt:1.

Ingred Name:METHYL ISOBUTYL KETONE  
CAS:108-10-1  
RTECS #:SA9275000  
= Wt:5.  
OSHA PEL:410 MG/M3;100 PPM  
ACGIH TLV:205 MG/M3;50 PPM  
ACGIH STEL:307 MG/M3;75 PPM  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:ANTI MAR AGENT  
CAS:9038-95-3  
Code:F  
RTECS #:MO0911000  
&lt; Wt:.1

Ingred Name:ANTI MAR AGENT  
&lt; Wt:.1

Ingred Name:DIBUTYLTIN  
DILAUATE  
CAS:77-58-7  
RTECS #:WH7000000  
&lt; Wt:.1

Ingred Name:DIATOMACEOUS EARTH, FLUX-CALCINED  
CAS:68855-54-9  
= Wt:5.

===== 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 THE  
EYES, NOSE, AND THROAT. INHALATION MAY CAUSE HEADACHES, DIFFICULT  
BREATHING AND LOSS OF CONSCIOUSNESS. CHRONIC: AS A RESU

## LT OF

PREVIOUS REPEATED OVEREXPOSURE OR A SINGLE LARGE DOSE, CERTAIN INDIVIDUALS WILL DEVELOP ISOCYANATE SENSITIZATION WHICH WILL CAUSE THEN TO REACT TO A LATER EXPOSURE OF ISOCYANATE 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, UNCONSCIOUSNESS O R COMA. SKIN AND

EYE CONTACT: SKIN: ISOCYNATES

REACT WITH SKIN PROTEIN AND MOISTURE AND CAN CAUSE IRRITATION. SYMPTOMS MAY BE SWELLING, REDNESS, AND RASH. EYES: LIQUID, AEROSOLS, OR VAPORS ARE IRRIT ATING 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 WHICH CAN CAUSE THE SKIN TO CRACK. INGE

Medical Cond Aggravated by Exposure: ASTHMA AND ANY

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 MAY DEVELOP AND MAY BE IMMEDIATE OR DELAYED BY SEVERAL HOURS. OBTAIN MEDICAL ATTE NTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER. WASH

CONTAMINATED CLOTHING THOROUGHLY BEFORE REUSE. EYES: FLUSH WITH CLEAN LUKEWARM WATER FOR AT LEAST 15 MINUTES, OCASSIONALLY 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: =15.6C, 60.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 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

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:EVACUATE ALL NON-ESSENTIAL PERSONNEL. REMOVE  
ALL SOURCES OF IGNITION FLAME, SPARK SOURCES, HOT SURFACES.  
VENTILATE ARE  
A. CONTAIN AND REMOVE WITH 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 VAPO  
RS 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.  
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 R

REGULATIONS FOR RESPIRATOR

USE. VENTILATION SHOULD BE PROVIDED TO KEEP EXPOSURE LEVELS BELOW THE OSHA PERMISSIBLE LIMITS. AN AIR SUPPLIED RESPIRATOR MAY BE APPROPRIATE WHERE AIR MONITORING DEMONSTRATES VAPOR LEV

Ventilation:EXHAUST VENTILATION SUFFICIENT TO KEEP THE AIRBORNE CONCENTRATIONS OF SOLVENT VAPORS OR MISTS BELOW THEIR RESPECTIVE TLV'S MUST BE UTILIZED. REMOVE ALL IGNITION

Protective Gloves:COTTON NEOPRENE, RUBBER, POLYETHYLENE

Eye Protection:SPLASH GUARDS, OR SIDE S  
HIELDS, 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.

Work Hygienic Practices:N/ P

Supplemental Safety and Health  
N/ P

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

Boiling Pt:B.P. Text:241-401 DEG F

Evaporation Rate & Reference:0.82

Solubility in Water:INSOLUBLE

Appearance and Odor:BLACK LIQUID WITH SOLVENT ODOR

===== S  
tability 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/TEMPERATURE: CARBON MONOXIDE, CARBON DIOXIDE, AND OXIDES OF NITROGEN, TRACES O HCN AND HDI.

===== Disposal Considerations =====  
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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, DO TO PRODUCT RESIDUE AND FLAMMABLE VAPOR. DO NOT I NCINERATE CLOSED CONTAINERS.

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

SARA Title III Information:THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHECICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMER

AGENCY PLANNING AND COMMUNITY RIGHT TO KNOW ACT OF 1986 AND

40 CFR 372: 108-01-1 METHYL ISOBYTYL KETONE.

State Regulatory Information: THIS PRODUCT CONTAINS CHEMICALS KNOWN BY THE STATE OF CALIFORNIA TO CAUSE CANCER. 6855-54-9 DIATOMACEOUS EARTH.

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