

DEFT INC -- CAT, MIL-C-85285B, 37038, TYPE II 04BK004CA -- 8010-01-293-0783

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

Product ID:CAT, MIL-C-85285B, 37038, TYPE II 04BK004CA

MSDS Date:07/31/1991

FSC:8010

NIIN:01-293-0783

Kit Part:Y

MSDS Number: BMDWZ

=== Responsible Party ===

Company Name:DEFT INC

Address:17451 VON KARMAN AVENUE

City:IRVINE

State:CA

ZIP:92714

Country:US

Info Phone Num:714-474-0400

Emergen

cy Phone Num:800-424-9300 CHEMTREC

Preparer's Name:NORM GAUL

CAGE:33458

=== Contractor Identification ===

Company Name:DEFT INC

Address:17451 VON KARMAN AVE

City:IRVINE

State:CA

ZIP:92714-6205

Country:US

Phone:800 424-9300

CAGE:33458

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:ALIPHATIC ISOCYANATE (VAPOR PRESSURE 0 MM HG) HEXAMETHYLE

NE

DIISOCYANATE (HDI) CAS NO: 822-06-0, FREE MONOMER CONTENT*

CAS:28182-81-2

Fraction by Wt: 65%

Other REC Limits:TLV OF 1 MG/M3 MOBAY

Ingred Name:*LESS THAN 0.7% BASED ON RESIN SOLIDS AT TIME OF
MANUFACTURE. AFTER 3-6 MONTHS STORAGE, THE FREE MONOMER CONTENT MAY
**

RTECS #:9999999ZZ

Other REC Limits:NONE SPECIFIED

Ingred Name:**RISE TO A MAXIMUM OF 1.6%. THE ACGIH HAS PROPOSED A TLV
OF 0.005 PPM TWA IN THE NOTICE OF INTENDED CHANGES FOR ***

RTECS #:9999999ZZ

Other REC Limits:N

ONE SPECIFIED

Ingred Name:***1987-88. MOBAY RECOMMENDS A CEILING LEVEL OF 0.02 PPM.

RTECS #:9999999ZZ

Other REC Limits:NONE SPECIFIED

Ingred Name:METHYL ISOBUTYL KETONE (VAPOR PRESSURE 15 MM HG)

CAS:108-10-1

RTECS #:SA9275000

Fraction by Wt: 25%

Other REC Limits:NONE SPECIFIED

OSHA PEL:100 PPM/75 STEL

ACGIH TLV:50 PPM/75 STEL; 9293

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:ETHYL 3-ETHOXYPROPIONATE (VAPOR PRESSURE .7 MM HG)

CAS:763-69-9

RTECS #:UF3325000

Fraction by Wt: 10%

Other R

EC Limits:NONE SPECIFIED

Ingred Name:VOC: 355 G/L

RTECS #:9999999VO

Other REC Limits:NONE SPECIFIED

===== 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 IRRITATING TO EYES/NOSE/

THROAT. INHALATION MAY CAUSE HEADACHE/DIFFICULT

BREATHING/UNCONSCIOUSNESS. CHRONIC: REPEATED OVEREXPOSURE/SINGLE

LARGE DOSE CAN CAUSE I

SOCYANATE SENSITIZATION, W HICH CAN CAUSE
REACTION TO A LATER EXPOSURE OF ISOCYANATE LEVELS WELL BELOW TLV
VALUE OF ISOCYANATE.

Effects of Overexposure:INHALE: IRRITATE RSPRTRY TRACT/ACUTE NERV SYST
DEPRESS-PROG STEPS:
HEADACHE/DIZZY/STAGGER/CONFUSION/UNCONSCIOUS/COMA. SKIN/EYE
CONTACT: IRRITATE/SWELL/RED/RASH. EYES: LIQUID/AREOSOLS/VAPORS
IRRITATE/T EAR/RED/SWELL/STING SENSATION. SKIN ABSORPTION:
PROLONG/REPEAT IRRITATE/DRY/DEFAT/CRACK. ACUTE: IRRITATE/CORROSIVE

Medi
cal Cond Aggravated by Exposure:ASTHMA AND ANY OTHER RESPIRATORY
DISORDERS. SKIN ALLERGIES, ECZEMA, AND DERMATITIS. ISOCYANATE
SENSITIZATION.

===== First Aid Measures =====

First Aid:INHALE: REMOVE TO FRESH AIR. RESTORE BREATHING. ASTHMATIC
TYPE SYMPTOMS MAY DEVELOP/MAY BE IMMEDIATE OR DELAYED SEVERAL HRS.
MED AID. SKIN: REMOVE CONTAM CLOTHING. WASH AFFECTED AREAS W/
SOAP/WATER. W ASH CONTAM CLOTHING BEFORE REUSE. EYES:FLUSH W/CLEAN

LUKEWARM WATER (LOW PRESSURE) 15 MIN, LIFT LIDS. MED AID. INGEST:
DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING TO AN UNCONSCIOUS
PERSON. MED AID.

===== Fire Fighting Measures =====

Flash Point Method:TCC

Flash Point:60.0F,15.6C

Lower Limits:1.05

Extinguishing Media:FOAM, ALCOHOL FOAM, CARBON DIOXIDE, DRY CHEMICAL,
WATER FOG.

Fire Fighting Procedures:FULL EQUIP W/SCBA/FULL GEAR--FIRE FIGHTERS.
WTR--COOL CLSD CNTNRS-PREVENT PRESS BLD-UP/AUTO IGN
ITE/EXPLOS.

HDI/OTHER VAPORS GENERATED BY COMBUST/THERMAL DECOMP.

Unusual Fire/Explosion Hazard:CNTNRS CLSD. NO HEAT/SPARKS/ELEC
EQUIP/OPEN FLAME. CLSD CNTNRS EXPLODE--EXPOSED EXTREME HEAT. APPLIC
TO HOT SURFACES- SPECIAL PRECAUS. OVEREXPOSURE TO DECOMP

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

Spill Release Procedures:CLEAR AREA. REMOVE SOURCES OF IGNITION
(FLAME/SPARK SOURCES/HOT SURFACES). VENTILATE AREA. CONTAIN AND
REMOVE WITH INERT ABSORBENT

AND NON-SPARKING TOOLS.

===== Handling and Storage =====

Handling and Storage Precautions:BLDGS COMPLY W/OSHA 1910.106. AVOID
STORING NEAR HIGH TEMPERATURES/FIRE/OPEN FLAMES/SPARK SOURCES.
TIGHTLY CLOSED CONTAINERS. WELL VENTED AREAS.

Other Precautions:CNTNRS TIGHT/UPRIGHT PREVENT LEAKAGE. NO PROLONGED
BREATHING VAPORS/SPRAY MISTS. PROLONGED OVEREXPOSURE-ALLERGIC
REACTION. NO CONTACT SKIN/EYES. DO NOT INGEST. READ/UNDERSTAND
MFR'S SAFETY P
RECAUTIONS .

===== Exposure Controls/Personal Protection =====

Respiratory Protection:ORGANIC VAPOR ENVIRON RSPRTR (AIR PURIFY/FRESH
AIR SUPPLY). OSHA REGS/RSPRTR USE. VENT--KEEP EXPOS LEVELS BELOW
OSHA LIMITS. USE VAPOR PARTICULATE RSPRTR (TC23C NIOSH/MSHA) WHERE
AIR MONITOR SHOWS VAP OR LEVELS BELOW 10 TIMES EXPOSE LIMITS.

Ventilation:SUFFIC-KEEP AIRBORNE CNTNRNS--SOLVENT/HDI/POLYISOCYANATES
BELOW TLV'S. NO IGNITE SOURCES HEAT/SPARKS/FLAME/HOT SRFCs.

Protect

ive Gloves:COTTON/NEOPRENE/RUBBER/POLYETHYLENE

Eye Protection:SPLASH GUARDS/SIDE SHIELDS/CHEM GOGGLES

Other Protective Equipment:FACE SHIELDS. LONG SLEEVE AND LONG LEG
CLOTHING IS RECOMMENDED. REMOVE AND WASH CONTAMINATED CLOTHING
BEFORE REUSE.

Work Hygienic Practices:WASH HANDS BEFORE EATING, SMOKING, USING
WASHROOM. SMOKE IN SMOKING AREAS ONLY.

Supplemental Safety and Health

KEY1;F5.THIS PRODUCT MAY CONTAIN TOXIC CHEMICALS SUBJECT TO THE
REPORTING REQUIREMENTS OF SECTION 313 OF
TITLE III OF THE SUPERFUND

AMENDMENTS AND REAUTHORIZATION ACT OF 1986 & 40 CFR PART 372.

ACTION --MOUTH/STOMACH TISSUE/DIGESTIVE TRACT.VOMITING MAY CAUSE
ASPIRATION: CHEMICAL PNEUMONITIS.

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

HCC:F5

Boiling Pt:B.P. Text:237FTO338F

Vapor Density:>AIR

Spec Gravity:1.00 (WATER=1)

Viscosity:*

Evaporation Rate & Reference:0.95(X N-BUTYL ACETATE=1)

Appearance and Odor:AMBER LIQUID WITH SOLVENT ODOR

Percent Volatiles by

===== 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 ISOCYANATES AND HIGH TEMPERATURE.
Hazardous Decomposition Products:BY HIGH HEAT/TEMPERATURE: CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN, TRACES OF HCN AND HDI.

===== Disposal Considerations =====

Waste Disposal Methods:IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. EMPTY CONTAINERS MUST BE HANDLED WITH CARE DUE TO PRODUCT RESIDUE/FLAMMABLE VAPOR. DO NOT INCINERATE CLOSED CONTAINERS. EPA HAZARDOUS WASTE NUMBER/CODE: D001, F003, F005.

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