

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.

===== Dis
posal 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 NUM BER/CODE: D001, F003, F005.

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no
manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.