

DEFT INC -- CAT, MIL-85285B, 16081, TYPE I, 03GY308CAT -- 8010-01-329-6753

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

Product ID:CAT, MIL-85285B, 16081, TYPE I, 03GY308CAT

MSDS Date:07/31/1991

FSC:8010

NIIN:01-329-6753

Kit Part:Y

MSDS Number: BMDYH

=== 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

Emergency

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:TOLUENE (SARA III)

CAS:108-88-3

RTECS #:XS5250000

Fraction

by Wt: 15%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:200 PPM/150 STEL  
ACGIH TLV:50 PPM; 9293  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:ALIPHATIC ISOCYANATE (VAPOR PRESSURE 0 MM HG) HEXAMETHYLENE  
DIISOCYANATE (HDI) CAS NO: 822-06-02, FREE MONOMER CONTENT\*  
CAS:28182-81-2  
Fraction by Wt: 45%  
Other REC Limits:TLV 1 MG/M3 MOBAY

Ingred Name:\*LESS THAN 0.7% BASED ON RESIN SOLIDS AT TIME OF MFR. AFTER  
3-6 MONTHS STORAGE, THE FREE MONOMER CONTENT MAY RISE MAX\*\*  
RTECS #:9999999ZZ  
Oth  
er REC Limits:NONE SPECIFIED

Ingred Name:\*\*1.6%. THE ACGIH HAS PROPOSED A TLV OF 0.005 PPM TWA IN  
THE NOTICE OF INTENDED CHANGES FOR 1987-88. MOBAY RECOMMENDS\*\*\*  
RTECS #:9999999ZZ  
Other REC Limits:NONE SPECIFIED

Ingred Name:\*\*\*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: 40%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:100 PPM/75 STEL  
ACGIH TLV:50 PPM/7  
5 STEL; 9293  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:VOC: 502 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  
IRRITATE--EYES/NOSE/THROAT. INHALE: MAY CAUSE HEADACHES/DIFFICULT  
BREATHING/UNCONSCIOUSNESS. CHRONIC: AS RESULT OF PREVIOUS REPEATED

OVEREXPOSURE/SINGLE LARGE DOSE, POSSIBLE DEVELOPMENT OF ISOCYANATE SENSITIZATION WILL CAUSE A REACTION TO LATER EXPOSURE OF ISOCYANATE LEVELS BELOW TLV VALUE OF ISOCYANATES.

Effects of Overexposure:INHALE: IRRITATE--RSPTRY TRACT/ACUTE NERV SYST DEPRESS CHARACTZD-PROGRESS STEPS:  
HEADACHE/DIZZY/STAGGER/CONFUSION/UNCONSCIOUS/COMA. SKIN/EYE CONTACT: IRRITATE/SWELL/RED/RASH. EYES: LIQUID/AREOSOLS/VAP ORS IRRITATE/TEAR/RED/SWELL/STING SENSATION. SKIN ABSORPTION: PROLONG

/REPEAT IRRITATE/DRY/DEFAT/CRACK. INGEST: IRRITATE\*

Medical Cond Aggravated by Exposure:ASTHMA AND ANY OTHER RESPIRATORY DISPRDERS. SKIN ALLERGIES, ECZEMA, AND DERMATITIS. ISOCYANATE SENSITIZATION. \*POSSIBLY CORROSIVE-MOUTH/STOMACH/DIGESTIVE TRACT. VOMIT CAN CAUSE CHEMICAL PNEUMONITIS.

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

First Aid:INHALE: MOVE TO FRESH AIR. RESTORE BREATHING. ASTHMA SYMPTOMS IMMEDIATELY/DELAYED SEVERAL HOURS. MEDICAL AID. SKIN: REMOVE CONTAMINATED CLOTHING. WASH AFFECTED AREAS WITH SOAP/WATER. WASH CONTAMINATED CLOTHING BEFORE REUSE. EYES: FLUSH WITH CLEAN WATER (LOW PRESSURE) 15 MINUTES LIFT LIDS. MEDICAL AID. INGEST: DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING TO AN UNCONSCIOUS PERSON. MEDICAL AID.

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

Flash Point Method:TCC

Flash Point:45.0F,7.2C

Lower Limits:1

Extinguishing Media:FOAM, ALCOHOL FOAM, CARBON DIOXIDE, DRY CHEMICAL

,

WATER FOG.

Fire Fighting Procedures:FULL EQUIPTMENT W/SCBA/FULL PROTECTIVE CLOTHING ON FIRE FIGHTERS. WATER TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP/AUTO IGNITION/EXPLOSION.

Unusual Fire/Explosion Hazard:CNTNRS CLSD. NO HEAT/SPARKS/ELEC EQUIP/OPEN FLAME. CLSED CNTNRS MAY EXPLODE WHEN EXPOSED EXTREME HEAT. USE SPECIAL PRECAUTION WHEN APPLYING TO HOT SURFACES.\*

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

Spill Release Procedures:CLEAR A

REA. REMOVE ALL SOURCES OF IGNITION  
(FLAME/SPARK SOURCES/HOT SURFACES). VENTILATE AREA. CONTAIN AND  
REMOVE WITH INERT ABSORBANT AND NON-SPARKING TOOLS.

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

Handling and Storage Precautions:BLDGS DESIGN--COMPLY W/OSHA 1910.106.  
AVOID STORING NEAR HIGH TEMP/FIRE/OPEN FLAME/SPARK SOURCES. CNTNRS  
TIGHTLY CLOSED. STORE IN WELL VENTED AREA.  
Other Precautions:CONTAINERS TIGHT/UPRIGHT PREVENT LEAKAGE. NO  
PROLONGED BREA  
THING VAPORS/SPRAY MISTS. PROLONGED  
OVEREXPOSURE--ALLERGIC REACTION. NO CONTACT W/SKIN/EYES. DO NOT  
INGEST. READ/UNDERSTAND MFR'S SAFETY PREC AUTIONS.

===== 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 LIM  
ITS.  
Ventilation:SUFFIC-KEEP AIRBORNE CNCNTRTNS--SOLVENT/HDI/POLYISOCYANATES  
BELOW TLV'S. NO IGNITE SOURCES HEAT/SPARKS/FLAME/HOT SRFCS.  
Protective Gloves:COTTON, NEOPRENE, RUBBER, POLYETHYLENE  
Eye Protection:SPLASH GUARD/SIDE SHIELDS/CHEM GOGGLES  
Other Protective Equipment:FACE SHIELDS. LONG SLEEVE AND LONG LEG  
CLOTHING IS RECOMMENDED.  
Work Hygienic Practices:WASH HANDS BEFORE EATING, SMOKING, USING  
WASHROOM. SMOKE IN SMOKING AREAS ONLY. WASH CONTAMINATED CLOTHING  
BEFORE REUSE.  
Supplemental Safety and Health  
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.

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

Boiling Pt:B.P. Text:231FTO237F  
Vapor Density:>AIR  
Spec Gravity:0.93  
Viscosity:.\*  
Evaporation Rate & Reference:1.39 (X (N-BUTYL ACETATE)  
Solubility in Water:INSOLUBLE  
Appearance and Odor:AMBER LIQUID W

ITH SOLVENT ODOR  
Percent Volatiles by Volume:61.5

===== 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 TEMPERATURES.

Hazardous Decomposition Products:BY HIGH HEAT/TEMPERATURE: CARBON  
MONOXIDE, CARBON DIOXIDE, AND OXIDES OF NITROGEN, TRCES OF HC  
N AND  
HDI.

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

Waste Disposal Methods:IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL  
REGULATIONS. EMPTY CONTAINERS HANDLE WITH CARE DUE TO PRODUCT  
RESIDUE AND FLAMMABLE VAPORS. DO NOT INCINERATE CLOSED CONTAINERS.  
EPA HAZARDOUS WASTE NUMBER/ 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.