

DEFT INC -- CAT,MIL-C-85285B, 11136, TYPE II, 04R002CAT -- 8010-01-293-3796

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

Product ID:CAT,MIL-C-85285B, 11136, TYPE II, 04R002CAT

MSDS Date:07/31/1991

FSC:8010

NIIN:01-293-3796

Kit Part:Y

MSDS Number: BMDXH

=== Responsible Party ===

Company Name:DEFT INC

Address:17451 VON KARMAN AVE

City:IRVINE

State:CA

ZIP:92714

Country:US

Info Phone Num:714-474-0400

Emergency

Phone Num:800-424-9300

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)\*

CAS:28182-81-2

Fracti

on by Wt: 75%  
Other REC Limits:MOBAY TLV: 1 MG/M3

Ingred Name:\*HEXAMETHYLENE DIISOCYANATE (HDI) CAS NO 822-06-0, FREE  
MONOMER CONTENT LESS THAN 0.7% BASED ON RESIN SOLIDS AT TIME\*\*  
RTECS #:9999999ZZ  
Other REC Limits:NONE SPECIFIED

Ingred Name:\*\*OF MFR. AFTER 3-6 MO STORAGE FREE MONOMER CONTENT MAY  
RISE (MAX 1.6%). THE ACGIH HAS PROPOSED A TLV OF 0.005 PPM \*\*\*  
RTECS #:9999999ZZ  
Other REC Limits:NONE SPECIFIED

Ingred Name:\*\*\*TWA IN THE NOTICE OF INTENDED CHANGES FOR 1987-88. MOBAY  
R  
ECOMMENDS A CEILING LEVEL OF 0.02 PPM.  
RTECS #:9999999ZZ  
Other REC Limits:NONE SPECIFIED

Ingred Name:METHYL ISOBUTYL KETONE (SARA 313) (VAPOR PRESSURE 15 MM HG)  
CAS:108-10-1  
RTECS #:SA9275000  
Fraction by Wt: 15%  
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 (SARA 313) (VAPOR PRESSURE .7 MM  
HG)  
CAS:763-69-9  
RTECS #:UF3325000  
Fraction by Wt: 10%  
Other REC Limits:NONE SPECIFIED

Ingred Name:VOC: 260 G/L  
RTECS #:9999999VO  
Fraction by Wt: 10%  
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: IRRITATION, ACUTE NERVOUS SYSTEM  
DEPRESSION. CHRONIC: PROLONGED CONTACT WILL CAUSE DEFATTING ACTION.  
INGESTION: IRRI

TATION. ASPIRATION CAN CAUSE CHEMICAL PNEUMONITIS.

AS A RESULT OF PREVIOUS REPEATED OVEREXPOSURE OR SINGLE LARGE DOSE, CERTAIN INDIVIDUALS WILL\*\*

Effects of Overexposure: INHAL: DIFFICULT BREATHING, HEADACHE, DIZZINESS, STAGGERING GAIT, CONFUSION, UNCONSCIOUSNESS, COMA. SKIN: IRRIT (SWELLING/REDNESS/RASH). EYES: REDNESS, TEARING, SWELLING W/STINGING. SKIN: SWELL/REDNESS/RASH. PROLONG/REPEAT--MOD IRRIT, DRYING, SKIN CRACKING. INGEST: VOMIT. IRRIT. CORROSIVE TO MOUTH/STOMACH/DIGEST TRACT.

Medical Cond Aggravated by Exposure: ASTHMA AND ANY OTHER RESPIRATORY DISORDERS. SKIN ALLERGIES, ECZEMA, AND DERMATITIS.

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

First Aid: INHALATION: MOVE TO FRESH AIR. RESTORE BREATHING. ASTHMATIC TYPE SYMPTOMS MAY DEVELOP (IMMED/DELAYED BY SEVERAL HRS). GET MED AID. SKIN: REMOVE CONTAM CLOTHING. WASH AREA W/SOAP & WATER. WASH CONTAM CLOTHING BEFORE REUSE. EYES: FLUSH WITH LUKEWARM WATER (LOW PRESSURE)--15 MIN, LIFTING UPPER/LOWER LIDS. GET MED AID. INGESTION: DON'T INDUCE VOMIT. NOTHING BY MOUTH TO UNCONSCIOUS PERSON. GET MED AID.

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

Flash Point Method: TCC

Flash Point: 60.0F, 15.6C

Lower Limits: 1.05%

Extinguishing Media: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG.

Fire Fighting Procedures: FULL FIRE FIGHT EQUIP W/SCBA & FULL PROTECT CLOTH. USE WATER TO COOL CLOSED CNTNRS/PREVENT PRESSURE BUILD-UP/

AUTO IGNITE/EXPLOSION. HDI/IRRIT VAPORS GENERATED.

Unusual Fire/Explosion Hazard: KEEP FROM IGNITE SOURCES. CLOSED CNTNR MAY EXPLODE W/HEAT. USE SPECIAL PRECAUTION W/APPLIC TO HOT SRFC. OVEREXPOS TO DECOMP PRODUCT IS HEALTH HZD.

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

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 ABSORBE

NT AND  
NON-SPARKING TOOLS.

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

Handling and Storage Precautions:STORE IN BLDG IN COMPLIANCE W/OSHA 1910.106. AVOID HIGH TEMP, IGNITION SOURCES. STORE IN TIGHTLY CLOSED CONTAINERS. STORE IN WELL VENT AREAS.

Other Precautions:KEEP CNTNRS TIGHT/UPRIGHT (PREVENT LEAKAGE). NO PROLONGED BREATHING OF VAPORS/SPRAY MISTS. AVOID CONTACT W/SKIN/EYES. DO NOT TAKE INTERNALLY. DO NOT HANDLE UNTIL THE SAFETY PRECAUTIONS HAVE BEEN READ/ UNDERSTOOD. SMOKE ONLY IN SMOKING AREAS.

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

Respiratory Protection:USE ORGANIC VAPOR RESPIRATOR (AIR PURIFYING/FRESH AIR). OBSERVE OSHA REGULATIONS (RESPIRATOR USE). PROVIDE VENT (KEEP EXPOS LEVELS BELOW OSHA LIMITS). USE VAPOR PARTIC RSPRTR (TC23C--NIOSH/MSHA) IF VA POR LEVELS ARE BELOW 10 X EXPOSURE LMTS.

Ventilation:EXHAUST VENT SUFFICIENT TO KEEP AIRBORNE CONC (SOLVENT/POLYISOCYANATES/HD I) BELOW TLV'S. REMOVE ALL IGNITION SOURCES.

Protective Gloves:COTTON, NEOPRENE, RUBBER, POLYETHYLENE

Eye Protection:SPLASH GUARDS/SIDE SHIELDS/CHEM GOGGLES

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

Work Hygienic Practices:REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REUSE. WASH HANDS BEFORE EATING, SMOKING OR USING WASHROOM.

Supplemental Safety and Health

\*\*DEVELOP ISOCYANATE SENSITIZATION WHICH WILL CAUSE THEM TO REACT TO A LATER EXPOSURE OF ISOCYANATES LEVELS WELL BELOW THE TLV VALUE OF ISOCYANATES.

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

HCC:F5

Boiling Pt:B.P. Text:237 TO 338F

Vapor Density:> AIR

Spec Gravity:1.04

Viscosity:\*

Evaporation Rate & Reference:0.83 X N-BUTYL ACETATE

Solubility in Water:INSOLUBLE

Appearance and Odor:AMBER LIQUID WITH SOLVENT ODOR.

Percent Volatiles by Volume:30.4

=====  
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, MATERIALS WHICH REACT WITH ISOCYANATES AND HIGH TEMPERATURES.

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

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

Waste Disposal Methods: WASTE MUST BE DISPOSED IN ACCORD W/FEDERAL,

STATE & LOCAL ENVIRONMENTAL CONTROL REGULATIONS. EMPTY CONTAINERS MUST BE HANDLED W/CARE (PRODUCT RESIDUE/FLAMMABLE VAPOR). DON'T INCINERATE CLOSED CNTNRS. EPA HAZARDOUS WASTE #: 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.