

DEFT INC -- CAT,MIL-C-85285B, 13538, TYPE II, 04Y001CAT -- 8010-01-293-3011

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

Product ID:CAT,MIL-C-85285B, 13538, TYPE II, 04Y001CAT

MSDS Date:07/31/1991

FSC:8010

NIIN:01-293-3011

Kit Part:Y

MSDS Number: BLVGG

=== 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

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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) HEXAMETHYLENE

DIISOCYANATE (HDI) CAS NO 822-06-02, FREE MONOMER CONTENT\*

CAS:28182

-81-2  
Fraction by Wt: 75%  
Other REC Limits:MOBAY TLV: 1 MG/M3

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

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

Ingred Name:\*\*\*RECOMMENDS A CEILING LEVEL OF 0.02 PPM.  
RTECS #:999999  
9ZZ  
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  
Other  
r 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: IRRITATION. ASPIRATION CAN CAUSE CHEMICAL PNEUMONITIS.  
AS A RESULT OF PRE

VIOUS 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/REDNES S/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 OT  
HER 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 C LOTHING 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 SRFCs.  
DURING EMERG COND, OVEREXPOS TO DECOMP PROD/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 ABSORBENT AND  
NON-SPARKING TOOLS.

===== Handl

ing 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 EXPOSURE LEVELS BELOW OSHA LIMITS). VAPOR PARTIC RSPRTR (TC23C--NIOSH/MSHA) IF VAP OR LEVELS ARE BELOW 10 X EXPOSURE LIMITS

Ventilation:EXHAUST VENT SUFFICIENT TO KEEP AIRBORNE CONC (SOLVENT/POLYISOCYANATES/HDI) 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 TL V 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 CONT  
ROL REGULATIONS. EMPTY CONTAINERS  
MUST BE HANDLED W/CARE (PRODUCT RESIDUE/FLAMMABLE VAPOR). DON'T  
INCINERATE CLOSED CNTNRS. EPA HAZARDOUS WASTE #: D001, F003, F005.

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