

DEFT INC CHEMICAL COATING DIV -- CAT, MIL-C-85285B, 13538, TYPE I, 03Y091CAT --
8010-01-285-3037

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

Product ID:CAT, MIL-C-85285B, 13538, TYPE I, 03Y091CAT

MSDS Date:07/31/1991

FSC:8010

NIIN:01-285-3037

Kit Part:Y

MSDS Number: BLSVH

=== Responsible Party ===

Company Name:DEFT INC CHEMICAL COATING DIV

Address:17451 VON KARMAN AVE

City:IRVINE

State:CA

ZIP:92714-6205

Country:US

Info Phone Num:714-474-0400

Emergency Phone Num:800-424

-9300 CHEMTREC

Preparer's Name:NORM GAUL

CAGE:33461

=== Contractor Identification ===

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 Nam

e:ALIPHATIC ISOCYANATE (VAPOR PRESSURE 0 MM HG)*

CAS:28182-81-2

Fraction by Wt: 45%

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
RECOMMENDS A CEILING LEVEL OF 0.02 PPM.

RTECS #:9999999ZZ

Other REC Limits:NONE SPECIFIED

Ingred Name:METHYL ISOBUTYL KETONE (SARA III)

CAS:108-10-1

RTECS #:SA9275000

Fraction by Wt: 45%

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:VOC: 526 G/L

RTECS #:9999999VO

Other REC Limits:NONE SPECIFIED

==== Hazards Iden
tification =====

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 CAU SE CHEMICAL PNEUMONITIS.

AS A RESULT OFPREVIOUS REPEATED OVEREXPOSURE OR SINGLE LARGE DOSE,
CERTAIN IN

DIVIDUALS 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 OTHER RESPIRATORY DISORDERS. SKIN ALLERGIES, ECZEMA, AND DERMA TITIS.

===== 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:45.0F,7.2C

Lower Limits:1%

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/HEA

T. 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.

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

Handling and Storage Precau

tions: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 TLV VALUE OF ISOCYANATES.

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

HCC:F2

Boiling Pt:B.P. Text:231 TO 237F

Vapor Density:> AIR

Spec Gravity:0.92

Viscosity:*

Evaporation Rate & Reference:1.39 X N-BUTYL ACETATE

Solubility in Water:INSOLUBLE

Appearance and Odor:AMBER LIQUID WITH SOLVENT ODOR.

Percent Volatiles by Volume:64.5

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

WATER, AMINES, STRONG BASES, ALCOHOLS, METAL COMPOUNDS AND SURFACE ACTIVE MATERIALS.

Stabil

ity 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 (PRODUC
T RESIDUE/FLAMMABLE VAPOR). DON'T
INCINERATE CLOSED CNTNRS. EPA HAZARDOUS WASTE #: D001, F003, F005.

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