

DEFT INC CHEMICAL COATING DIV -- CAT, MIL-C-85285B, 13538 TY 1 -- 8010-01-285-3038

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

Product ID:CAT, MIL-C-85285B, 13538 TY 1
MSDS Date:12/10/1992
FSC:8010
NIIN:01-285-3038
Kit Part:Y
MSDS Number: BQDRV
=== Responsible Party ===
Company Name:DEFT INC CHEMICAL COATING DIV
Address:17451 VON KARMAN AVE
City:IRVINE
State:CA
ZIP:92614
Country:US
Info Phone Num:949-47
4-9499
Emergency Phone Num:949-474-9499
Preparer's Name:NORM GAUL
CAGE:KO194
=== Contractor Identification ===
Company Name:DEFT INC CHEMICAL COATING DIV
Address:17451 VON KARMAN AVE
City:IRVINE
State:CA
ZIP:92614
Country:US
Phone:949-474-9499
CAGE:KO194
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 (HDI) CAS NO 8

22-06-0, FREE MONOMER

CONTENT LESS THAN 0.5% BASED ON RESIN SOLIDS AT TIME OF MFR.*

CAS:28182-81-2

RTECS #:NQ9170000

Fraction by Wt: 60%

Other REC Limits:MOBAY-0.02 CEIL PPM

ACGIH TLV:0.005 PPM TWA

Ingred Name:*HOWEVER, AFTER 3-6 MONTHS STORAGE, THE FREE MONOMER

CONTENT MAY RISE TO A MAX OF 1.6%.

RTECS #:9999999ZZ

Other REC Limits:NONE SPECIFIED

Ingred Name:METHYL ISOBUTYL KETONE (SARA 313) (VP: 15 MMGH @ 68F)

CAS:108-10-1

RTECS #:SA9275000

Fraction by Wt: 20%

Other REC Limits:NONE SP

ECIFIED

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:CYCLOHEXANONE (VP: 3.4 MMGH @ 68F)

CAS:108-94-1

RTECS #:GW1050000

Fraction by Wt: 25%

Other REC Limits:NONE SPECIFIED

OSHA PEL:S, 50 PPM

ACGIH TLV:S, 25 PPM; 9293

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:ETHYL-3-ETHOXYPROPIONATE (VP: .7 MMGH @ 68F)

CAS:763-69-9

RTECS #:UF3325000

Fraction by Wt: 10%

Other REC Limits:50 PPM-TWA/100 STEL

===== Hazard

s 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-IRRIT TO
EYES-NOSE-THROAT. INHAL MAY CAUSE HEADACHES-DIFFICULT BREATH-LOSS
OF CONSCIOUSNESS. CHRONIC: AS A RESULT OF PREVIOUS REPEAT
OVEREXPOS/SINGLE LG DOSE, SOME INDIVIDUALS WILL DEVEL OP ISOCYANATE
SENSITIZATION CAUSING A REACTION TO LATER EXPOS OF ISOCYANATE
LEVELS WELL BELOW TL

V VALUE OF ISOCYANATES

Effects of Overexposure:INHAL: IRRIT-RESP TRACT/ACUTE NERV SYS DEPRESS
W/HEADACHE/DIZZI/STAG GAIT/CONFUSION/UNCONSCIOUS/COMA. SKIN: IRRIT
W/SWELL-RED-RASH. ABSORP: IRRIT/DRYING/DEFAT. EYE:
LIQ/AREOSOLS/VAPORS-IRRIT W/TEAR/RE D/SWELL W/STING SENSATION.
INGEST: IRRIT. POSS CORROS IN MOUTH/STOMACH TISSUE/DIGEST TRACT.
VOMIT ASPIR-CHEM PNEUMONITIS

Medical Cond Aggravated by Exposure:ASHTMA AND ANY OTHER RESPIRATORY
DISORDERS. SKIN ALLERGIES, ECXEMA, AND
DERMATITIS. ISOCYANATE
SENSITIZATION.

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

First Aid:INHAL: MOVE TO FRESH AIR-RESTORE BREATHING. ASTHMATIC TYPE
SYMPTOMS MAY DEVELOP AND MAY BE IMMEDIATE OR DELAYED BY SEVERAL
HOURS. GET MED ATTN. SKIN: REMOVE CONTAMINATED CLOTHING AND
THOROUGHLY WASH B EFORE REUSE. WASH WITH SOAP AND WATER. EYE: FLUSH
WITH WATER (LOW PRESS) 15 MINS, LIFTING LIDS. GET MED ATTN. INGEST:
DO NOT INDUCE VOMITING. DO NOT GIVE A
NYTHING TO UNCONSCIOUS PERSON.
GET MED ATTN.

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

Flash Point Method:TCC

Flash Point:60.0F,15.6C

Lower Limits:1.05%

Upper Limits:9.40%

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

Fire Fighting Procedures:FULL FIRE FIGHT EQUIP W/SCBA-FULL PROTECT
CLOTHING. COOL CLSD CNTNRS W/WTR-PREVENT PRESS BLD-UP/AUTO
IGNIT/EXPLOS. HDI VAPOR GENERATED W/COMBUSTN-THERMAL DECOMP

Unusual Fire/Expl

osion Hazard:KEEP CNTRS CLSD TIGHT. ISOLATE FROM
HEAT/SPARKS/ELECT EQUIP/OPEN FLAME. EXPLODE W/EXTREME HEAT. SPEC
PRECAUTN W/APPLIC TO HOT SURFACES. HEALTH HAZ/SYMP DELAYED

===== 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.

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Handling and Storage =====

Handling and Storage Precautions:STORE IN BLDG DESIGNED TO COMPLY
W/OSHA 1910.106. AVOID STOR BY HIGH TEMP/FIRE/OPEN FLAME/SPARK SRC.
STORE IN TIGHT CLSD CNTNRS AND WELL VENT AREAS

Other Precautions:KEEP CONTAINER TIGHT/UPRIGHT-PREVENT LEAK. PREVENT
PROLONGED BREATHING OF VAPORS/SPRAY MIST. PROLONGED OVEREXPOSE-POSS
ALLERGIC REACT. AVOID CONTACT W/SKIN-EYES. DONT INGEST. DONT HANDLE
UNTIL MFR SFT Y PRECAUTIONS HAVE BEEN READ/UNDERS
TOOD.

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

Respiratory Protection:USE ORGANIC VAPOR ENVIRON RESP (AIR PURIFY/FRESH
AIR SUPPLD). SEE OSHA REG-RESP USE. VENT TO KEEP EXPOS LEVELS BELOW
PEL. AIR SUPPLD RESP RECOMM. VAPOR PARTIC RESP (TC23C NIOSH/MSHA)
APPROP W/VAPOR LE VELLS BELOW TEN TIMES APPLIC EXPOS LIMITS

Ventilation:EXHST VENT SUFFIC TO KEEP AIRBORNE CONC BELOW TLV'S MUST BE
UTILIZED. RMV ALL IGNIT SRCS-HEAT/SPARKS/FLAME/HOT SURFACES

Protective

Gloves:COTTON, NEOPRENE, RUBBER, POLYETHYLENE

Eye Protection:SPLSH GUARD/SIDE-FACE SHIELD/CHEM GOGGLE

Other Protective Equipment:THE USE OF LONG SLEEVE AND LONG LEG CLOTHING
IS RECOMMENDED. REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REUSE.

Work Hygienic Practices:WASH HANDS BEFORE EATING, SMOKING, OR USING
WASHROOM. SMOKE IN SMOKING AREAS ONLY.

Supplemental Safety and Health

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

HCC:F2

Boiling Pt:B.P. Text:241-338F

Vapo

r Density:> THAN AIR
Spec Gravity:0.97599
Viscosity:*\nEvaporation Rate & Reference:0.71 X N BUYTAL ACETATE
Solubility in Water:INSOLUBLE
Appearance and Odor:AMBER LIQUID WITH SOLVENT ODOR
Percent Volatiles by Volume:61.5

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Stability and Reactivity Data
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Stability Indicator/Materials to Avoid:YES
CONTACT WITH MOISTURE, MATERIAL WHICH REACT WITH ISOCYANATES AND HIGH
TEMPERATURES.
Stability Condition to Avoid:WATER, AMINES, STRONG BASES, ALCOHOLS,
ME
TAL COMPOUNDS AND SURFACE ACTIVE TEMPERATURES.
Hazardous Decomposition Products:BY HIGH HEAT/TEMPERATURE: CARBON
MONOXIDE, CARBON DIOXIDE, AND OXIDES OF NITROGEN, TRACES OF HCN AND
HDI.

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Disposal Considerations
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Waste Disposal Methods:DISPOSE IN ACCORD W/FEDERAL-STATE-LOCAL
ENVIRONMENTAL CONTROL REG. HANDLE EMPTY CNTNRS W/CARE, DUE TO PROD
RESIDUE/FLAMMABLE VAPOR. DO NOT INCINERATE CLSD CNTNRS. EPA HAZ
WASTE NUMBER/CODE: D001-F003-
F005. HAZ WASTE CHARACT:
IGNITABILITY, REACTIVITY

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