

DEFT INC CHEMICAL COATING DIV -- 3:1, CAT, MIL-C-85285, 36173, PC 03GY321CAT --  
8010-01-348-0385

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

Product ID:3:1, CAT, MIL-C-85285, 36173, PC 03GY321CAT

MSDS Date:06/12/1992

FSC:8010

NIIN:01-348-0385

Kit Part:Y

MSDS Number: BQDVL

=== Responsible Party ===

Company Name:DEFT INC CHEMICAL COATING DIV

Address:17451 VON KARMAN AVE

City:IRVINE

State:CA

ZIP:92714-6205

C

Country:US

Info Phone Num:714-474-0400

Emergency Phone Num:714-474-0400

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:ALIPHATIC ISOCYANATE, HEXAMETHYLENE DIISOCYANATE (HDI) CAS  
NO. 822-06-0, FREE MONOMER CONTENT LESS THAN 0.5%

CAS:28182-81-2

RTECS #:NQ9170000

Fra

ction by Wt: 35%  
Other REC Limits:MOBAY-0.02 CEILING  
ACGIH TLV:0.005 PPM

Ingred Name:ALIPHATIC ISOCYANATE, HEXAMETHYLENE DIISOCYANATE (HDI) CAS  
NO. 822-06-0, FREE MONOMER CONTENT LESS THAN 0.5%.  
CAS:28182-81-2  
RTECS #:NQ9170000  
Fraction by Wt: 40%  
Other REC Limits:MOBAY-0.02 CEILING  
ACGIH TLV:0.005 PPM

Ingred Name:C8 & 10 AROMATIC HYDROCARBON (VP: 3 MMGH @ 68F)  
CAS:64742-95-6  
Fraction by Wt: < 5%  
Other REC Limits:NONE SPECIFIED

Ingred Name:N-BUTYL ACETATE (VP: 13 MMGH @ 68F)  
CAS:123-86-  
4  
RTECS #:AF7350000  
Fraction by Wt: < 5%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:150 PPM/STEL 200  
ACGIH TLV:150 PPM/STEL 200  
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: 20%  
Other REC Limits:50 PPM-TWA/100 STEL

===== 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 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 TLV VALUE OF ISOCYANATES

Effects of Overexposure:INHAL: RESP TRACT IRRIT, NERV SYS DEPRESS  
W/HEADACHE-DIZZINESS-STAGGERING GAIT-CONFUSION-UNCONSCIOUS-COMA

EYE: IRRIT, TEARING-REDNESS-SWELLING W/STING SENSATION. SKIN: IRRIT W/SWELLING-REDNESS-RASH-D RY-DEFAT. INGEST: IRRIT, CORROSIVE ACTION IN MOUTH-STOMACH TISSUE-DIGEST TRACT. ASPIRATION W/VOMITING-CHEM PNEUMONITIS

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

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

First Aid:INHAL: MOVE TO FRESH AIR. RESTORE BREATHING. ASTHMATIC TYPE

SYMPTOMS-MAY BE IMMEDIATE OR DELAYED BY SEVERAL HOURS-GET MED AID. SKIN: REMOVE CONTAMINATED CLOTHING-WASH THOROUGHLY BEFORE REUSE. WASH AFF ECTED AREAS WITH SOAP AND WATER. EYES: FLUSH WITH WATER (LOW PRESSURE) 15 MINUTES, LIFTING LIDS-GET MED AID. INGEST: DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING TO AN UNCONSCIOUS PERSON-GET MED AID.

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

Flash Point Method:TCC

Flash Point:76.

0F,24.4C

Lower Limits:1.00%

Upper Limits:7.60%

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

Fire Fighting Procedures:FULL FIRE FIGHT EQUIP W/SCBA AND FULL PROTECT CLOTHING. MAY USE WATER TO COOL CLSD CNTNRS-PREVENT PRESSURE BUILD-UP/AUTO IGNIT/EXPLOS. IRRIT VAPORS W/COMBUSTN

Unusual Fire/Explosion Hazard:KEEP CNTNR CLSD TIGHT-MAY EXPLODE W/HEAT. ISOLATE FROM HEAT/IGNIT SOURCES. SPECIAL PRECAUTION W/APPLIC TO HOT SURFACES. OVEREXPOSURE-HEALTH HAZ-SYMPTOMS D ELAYED

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===== 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 THAT COMPLY W/OSHA 1910.106. AVOID STORAGE NEAR HIGH TEMP/FIRE/OPEN FLAMES/SPA

RK

SOURCES. STORE IN TIGHTLY CLSD CNTNRS IN WELL VENT AREA

Other Precautions:KEEP CONTAINERS TIGHT AND UPRIGHT TO PREVENT LEAKAGE.  
PREVENT BREATHING OF VAPORS/SPRAY MIST. POSSIBLE ALLERGIC REACTION.  
AVOID CONTACT WITH EYES AND SKIN. DO NOT INGEST. DO NOT HANDLE  
UNTIL MFR SAFETY PRECAUTIONS ARE READ AND UNDERSTOOD.

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

Respiratory Protection:RESP FOR ORGANIC VAPOR ENVIRONMENT (AIR  
PURIFYING-FRESH AIR SUPPLIED).

OBSERVE OSHA REG. PROVIDE VENT-KEEP

EXPOS LEVELS BELOW PEL. VAPOR PARTIC RESP (TC23C NIOSH/MSHA) WHERE  
DEMONSTRATED THAT VAPOR LEVELS BELOW TEN TIMES APPLIC EXPOS LIMITS

Ventilation:UTILIZE EXHST VENT TO KEEP AIRBORNE CONC OF  
SOLVENT/HDI/POLYISOCYANATES BELOW RESPECTIVE TLV'S. RMV ALL IGNIT  
SOURCES

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:F4

Boiling Pt:B.P. Text:260-338F

Vapor Density:> THAN AIR

Spec Gravity:1.08043

Evaporation Rate & Reference:0.15 X N-BUTYL ACETATE

Solubility in Water:INSOLUBLE

Appearance and Odor:AMBER LIQUID WITH SOLVENT O  
DOR

Percent Volatiles by Volume:30.1

===== 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, TRACES OF HCN AND  
HD

## ===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE W/FEDERAL-STATE-LOCAL ENVIRONMENTAL CONTROL REGULATIONS. EMPTY CONTAINERS MUST BE HANDLED W/CARE-DUE TO PRODUCT RESIDUE AND FLAMMABLE VAPOR. DO NOT INCINERATE CLOSED CONTAINER S. EPA HAZARDOUS WASTE NUMBER/CODE: D001-F003-F005

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