

DEFT INC CHEMICAL COATING DIV -- CAT, MIL-C-85285B, 36251, PC03GY310 CAT --  
8010-01-353-6551

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

Product ID:CAT, MIL-C-85285B, 36251, PC03GY310 CAT

MSDS Date:02/13/1992

FSC:8010

NIIN:01-353-6551

Kit Part:Y

MSDS Number: BQDVQ

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

CAS:28182-81-2

RTECS #:NQ9170000

Fr

action 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/STEL 100

===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health

h 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 DEVELOP 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-COM

A.

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.

===== 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 BEFORE REUSE. WASH 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.

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

Flash Point Method:TCC

Flash Point:76.0F,24.4C

Lower Limits:1.00%

U

pper 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 DELAYED

===== A  
ccidental 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 Precautions:STORE IN BLDG THAT COMPLY W/OSHA 1910.106. AVOID STORAGE NEAR HIGH TEMP/FIRE/OPEN FLAMES/SPARK SOURCES. STORE IN TIGH

TLY 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 VE  
NT-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:F2  
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 ODOR  
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  
HDI

===== Disp

osal 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

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.