

DEFT INC CHEMICAL COATING DIV -- CAT, MIL-C-85285B, 17925, 0PC03W127ACAT --  
8010-01-285-3034

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

Product ID:CAT, MIL-C-85285B, 17925, 0PC03W127ACAT

MSDS Date:06/30/1992

FSC:8010

NIIN:01-285-3034

Kit Part:Y

MSDS Number: BQGTW

=== Responsible Party ===

Company Name:DEFT INC CHEMICAL COATING DIV

Address:17451 VON KARMAN AVE

City:IRVINE

State:CA

ZIP:92714-6205

Country:U

S

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 < 0.5%

CAS:28182-81-2

RTECS #:HQ9170000

Fraction by Wt: 45

%  
Other REC Limits:MOBAY-0.02 CEIL PPM  
ACGIH TLV:TWA 0.005 PPM

Ingred Name:METHYL ISOBUTYL KETONE (SARA 313) (VP: 15 MMGH @ 68F)  
CAS:108-10-1  
RTECS #:SA9275000  
Fraction by Wt: 25%  
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: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:TWA 50 PPM/STEL 100

Ingred Name:VOC: 560 (GRAMS/LITER)  
RTECS #:9999999VO  
Other 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-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: 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. CORROSIVE IN MOUTH/STOMACH TISSUE/DIGEST TRACT.

VOMIT ASPIR-CHEM PNEUMONITIS

Medical Cond Aggravated by Exposure:ASHTMA 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 DEVELOP AND MAY BE IMMEDIATE OR DELAYED BY SEVERAL HOURS. GET MED ATTN. SKIN: REMOVE CONTAMINATED CLOTHING AND THOROUGHLY WASH BEFORE 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 ANYTHING 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%

Exting

quishing 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/Explosion 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

===== Accident

al 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 DESIGNED TO COMPLY W/OSHA 1910.106. AVOID STORAGE 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/UNDERSTOOD.

===== 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 WA SH 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

Vapor Density:> THAN AIR

Spec Gravity:0.96879

Evaporation Rate & Reference:0.75 X N BUTYL ACETATE

Solubility in Water:INSOLUBLE

Appearance and Odor:AMBER LIQUID WITH SOLVENT ODOR

Percent Volatiles by Volume:

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

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, METAL 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.

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

Waste Disposal Methods: DISPOSE IN ACCORDANCE WITH FEDERAL-STATE-LOCAL ENVIRONMENTAL CONTROL REGULATIONS. HANDLE EMPTY CONTAINERS WITH CARE, DUE TO PRODUCT RESIDUE/FLAMMABLE VAPOR. DO NOT INCINERATE CLOSED CONTAINERS. EPA HAZARDOUS WASTE NUMBER/CODE: D001-F003-F005.

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