

DEFT INC -- 3:1, CAT, MIL-C-85285, 34088 PC03GN193 CAT -- 8010-01-356-6529

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

Product ID:3:1, CAT, MIL-C-85285, 34088 PC03GN193 CAT

MSDS Date:03/23/1992

FSC:8010

NIIN:01-356-6529

Kit Part:Y

MSDS Number: BQDWN

=== Responsible Party ===

Company Name:DEFT INC

Address:17451 VON KARMAN AVENUE

City:IRVINE

State:CA

ZIP:92714

Country:US

Info Phone Num:714-474-0400

Emergenc

y Phone Num:800-424-9300(CHEMTREC)

Preparer's Name:NORM GAUL

CAGE:33458

=== Contractor Identification ===

Company Name:DEFT INC

Address:17451 VON KARMAN AVE

City:IRVINE

State:CA

ZIP:92714-6205

Country:US

Phone:800 424-9300

CAGE:33458

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) CA

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NO. 822-06-0, FREE MONOMER CONTENT LESS THAN 0.5%

CAS:28182-81-2

RTECS #:NQ9170000

Fraction 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%

O

ther 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: Inhalat

ion: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 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
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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/A

PPLIC TO HOT SURFACES. OVEREXPOSURE-HEALTH HAZ-SYMPTOMS 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.

===== 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 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 =====

Boiling Pt:B.P. Text:260F,127C

Vapor Density:> THAN AIR

Spec Gravity:1.08043

Evaporation Rate & Reference:0.15 X N-BUTYL ACETATE

Solubility in Water:IN

SOLUBLE

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

===== 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 CONTAINERS. EPA HAZARDOUS WASTE NUMBER/CODE: D001-F003-F005

Disclaimer (provided with this information by the compiling agencies):

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