

DEFT INC CHEMICAL COATING DIV -- MIL-C-83286B, 12197 LEAD FREE P/C 030R051CAT --
8010-00-181-8296

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

Product ID:MIL-C-83286B, 12197 LEAD FREE P/C 030R051CAT

MSDS Date:10/21/1992

FSC:8010

NIIN:00-181-8296

Kit Part:Y

MSDS Number: BTCLJ

=== 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 BIURET OF HMDI

CAS:4035-89-6

Fraction by Wt: 30%

Other REC Limits:NONE RECOMMENDED

ACGIH TLV:0.005 PPM TWA

Ingred N

ame:HEXAMETHYLENE DIISOCYANATE [HDI] FREE MONOMER >0.5% AT TIME
OF MFR, AFTER 3-6 MO, MAY RISE TO MAX 1.6%.

CAS:822-06-0

RTECS #:MO1740000

Fraction by Wt: 0.5-1.6%

Other REC Limits:NONE RECOMMENDED

ACGIH TLV:NOT ESTABLISHED

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:N-BUTYL ACETATE (SARA III) (VAPOR PRESSURE 13 MM HG @ 68F)

CAS:123-86-4

RTECS #:AF7350000

Fraction by Wt: 5%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:150 PPM;STEL 200 PPM

ACGIH TLV:150 PPM;STEL 200 PPM

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:XYLENE (SARA III) (VAPOR PRESSURE 21 MM HG @ 100F)

CAS:1330-20-7

RTECS #:ZE2100000

Fraction by Wt: 4.35%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:100 PPM;STEL 150 PPM

ACGIH TLV:100 PPM;STEL 150 PPM

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:ETHYL BENZENE (SARA III) (VAPOR PRESSURE 7.1 MM HG @ 68F)

CAS:100-41-4

RTECS #:DA0700000

Fraction by Wt: 0.89%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:100 PPM;STEL 125 PPM

ACGIH TLV:100 PPM;STEL 125 PPM

EPA

Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:ETHYL 3-ETHOXYPROPIONATE (VAPOR PRESSURE 0.7 MM HG @ 68F)

CAS:763-69-9

RTECS #:UF3325000

Fraction by Wt: 10%

Other REC Limits:50 PPM; STEL 100 PPM

Ingred Name:METHYL ETHYL KETONE (SARA III) (VAPOR PRESSURE 70 MM HG @
68F)

CAS:78-93-3

RTECS #:EL6475000

Fraction by Wt: 46.56%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:200 PPM;STEL 300 PPM

ACGIH TLV:200 PPM;STEL 300 PPM

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:VOC: 625 G/L

#:9999999VO

Other REC Limits:NONE RECOMMENDED

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===== 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:INHAL: RESP TRACT IRRIT,NERV SYS
DEPRESS (HEADACHE,DIZZY,STAGGER,CONFUSION,UNCONSCIOUS,COMA). SKIN:
ISOCYANATE REACT W/PROTEIN CAUSING IRRIT (SWELL,RED,RASH). ABSORPT:
IRRIT,DRYING,DEFATTING (CRACKING). EYE: IRRIT (TEAR,RED,SWEL

L

W/STING).INGEST: IRRIT,CORROSIVE IN GI TRACT. VOMIT MAY CAUSE
ASPIRATION-CHEM PNEUMONITIS

Effects of Overexposure:ACUTE: VAPOR IRRITATING TO EYES, NOSE, THROAT.
INHALATION MAY CAUSE HEADACHES, DIFFICULT BREATHING &
UNCONSCIOUSNESS. CHRONIC: AS RESULT OF PREVIOUS REPEATED
OVEREXPOSURE OR SINGLE LARGE DOSE , SOME WILL DEVELOP ISOCYANATE
SENSITIZATION WHICH WILL CAUSE THEM TO REACT TO LATER ISOCYANATE
EXPOSURE WELL BELOW TLV.

Medical Cond Aggravated by Exposure:A
STHMA 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 DEVELOP. GET MEDICAL AID. SKIN: REMOVE CONTAMINATED
CLOTHES. WASH AFFECTED AREAS W/SOAP & WATER. WASH CONTAMINATED
CLOTHING BEF ORE REUSE. EYES: FLUSH W/LUKEWARM WATER(LOW PRESSURE)
15 MIN, OCCASIONALLY LIFTING EY
ELIDS. GET MED AID. INGESTION: 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:23.0F,-5.0C
Lower Limits:1.00
Upper Limits:11.00
Extinguishing Media:FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG,
WATER SPRAY
Fire Fighting Procedures:USE FULL PROTECT CLOTH/FIREFIGHT EQUIP W/SCBA.
WATER MAY BE USED TO COOL CLSD CNTNRS (PREVENT PRESS
BLD

UP/AUTOIGNIT/EXPLOS). HDI/IRRIT VAPOR GENERATED BY FIRE.
Unusual Fire/Explosion Hazard:KEEP CNTNR CLSD. KEEP FROM HEAT/IGNIT
SOURCE. CLSD CNTNR MAY EXPLODE W/HEAT. APPLIC TO HOT SURFACE REQ
SPECIAL PRECAUTION. OVEREXPOSURE TO DECOMP PROD-HLTH HZD.

===== 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 BLDGS IN COMPLY W/OSHA
1910.106. AVOID STORING NEAR HIGH TEMPERATURES/IGNITION SOURCES.
STORE IN CLOSED CONTAINERS IN WELL VENTILATED AREA.
Other Precautions:KEEP CONTAINERS TIGHT & UPRIGHT (PREVENT LEAK).
PREVENT PROLONGED VAPOR BREATHING. PROLONGED OVEREXPOSURE MAY CAUSE
ALLERGIC REACTION. AVOID CONTACT WITH SKIN & EYE
S. DO NOT INGEST.
DON'T HANDLE TILL MFR SFTY PRECAUTIONS READ/UNDERSTOOD.

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

Respiratory Protection:A RESPIRATOR RECOMMENDED FOR ORGANIC VAPOR
ENVIRONMENT (AIR PURIFYING OR FRESH AIR SUPPLIED). OBEY OSHA REGS
FOR RESPIRATOR USE. PROVIDE VENT TO KEEP EXPOSURE LEVELS BELOW PEL.
USE VAPOR PARTICULATE R SPRTR (TC23C) WHEN BELOW 10X TLV/PEL.
Ventilation:EXHAUST VENT TO KEEP AIRBORNE CONCENTRATIONS BELOW TLV'S.
REM
OVE ALL IGNITION SOURCES.
Protective Gloves:COTTON, NEOPRENE, RUBBER, POLYETHYLENE
Eye Protection:SPLASH GUARDS,SIDE/FACE SHIELDS,GOGGLES
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:F

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Boiling Pt:B.P. Text:175 TO 338F

Vapor Density:>AIR

Spec Gravity:0.91477

Viscosity:*

Evaporation Rate & Reference:3.36 X N-BUTYL ACETATE

Solubility in Water:INSOLUBLE

Appearance and Odor:AMBER LIQUID WITH SOLVENT ODOR

Percent Volatiles by Volume:74.9

===== 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 & HDI.

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF WASTE IN ACCORDANCE WITH FEDERAL, STATE, & LOCAL ENVIRONMENTAL CONTROL REGULATIONS. EMPTY CONTAINERS MUST BE HANDLED WITH CARE, DUE TO PRODUCT RESIDUE & FLAMMABLE

VAPOR. DON'T INCINERATE CLOSED CONTAINERS. EPA CODE: D001, F003, F005.

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