

DEFT INC CHEMICAL COATING DIV -- CAT, MIL-C-46168D, 34088, TY II, P/C 03GN137CAT --
8010-01-055-2319

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

Product ID:CAT, MIL-C-46168D, 34088, TY II, P/C 03GN137CAT

MSDS Date:07/06/1988

FSC:8010

NIIN:01-055-2319

Kit Part:Y

MSDS Number: BSYLK

=== Responsible Party ===

Company Name:DEFT INC CHEMICAL COATING DIV

Address:17451 VON KARMAN AVE

City:IRVINE

State:CA

ZIP:9271

4-6205

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: 75%

Other REC Limits:NONE RECOMMENDED

ACGIH TLV:0.005 PPM TWA

Ingred Name:* (HEXAMETHYLENE DIISOCYANATE [HDI] 822-06-0, FREE MONOMER
>0.5% AT TIME OF MFR, AFTER 3-6 MO, MAY RISE TO MAX 1.6%)

RTECS #:9999999ZZ

Other REC Limits:NONE RECOMMENDED

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

CAS:123-86-4

RTECS #:AF7350000

Fraction by Wt: 15%

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 H
G @ 100F)

CAS:1330-20-7

RTECS #:ZE2100000

Fraction by Wt: 10.38%

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: 2.13%

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

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Hazards Iden
tification =====

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/PROTIEN CAUSING IRRIT (SWELL,RED,RASH). ABSORPT:

IRRIT,DRYING,DEFATTING (CRACKING). EYE: IRRIT (TEAR,RED,SWELL

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 OVEREXPSOURE OR SINGLE LARGE DOSE, SOME WI LL DEVELOP ISOCYANATE SENSITIZATION WHICH WILL CAUSE THEM TO REACT TO LATER ISOCYANATE EXPOSURE WELL BELOW TLV.

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

SOCYANATE SENSITIZATION.

===== 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 EYELIDS. GET MED AID. INGESTION: DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING TO AN UN CONSCIOUS PERSON. GET MED AID.

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

Flash Point Method:TCC

Flash Point:67.0F,19.4C

Lower Limits:1.00

Upper Limits:7.60

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 BLDUP/AUTOIGNIT/EXPLOS). HDI/IRRIT VAPOR GENERATED BY FIRE.

Unusual Fire/Explosion Hazard:KE

EP 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 St

orange =====

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 & EYES. DO NOT INGEST. DON'T HANDLE TILL MFR SFTY PRECAUTIONS READ/UNDERSTOOD.

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==== 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. REMOVE ALL IGNITION SOURCES.

Protective Gloves:COTTON, NEOPRENE, RUBBER, POLYETHYLENE

Eye Pr

tection: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:F5

Boiling Pt:B.P. Text:260 TO 288F

Vapor Density:>AIR

Spec Gravity:1.06242

Viscosity:*

Ev

aporation Rate & Reference:0.72 X N-BUTYL ACETATE

Solubility in Water:INSOLUBLE

Appearance and Odor:AMBER LIQUID WITH SOLVENT ODOR

Percent Volatiles by Volume:30.5

===== 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 Dec

Composition 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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