

DEFT, INC -- CAT, MIL-C-46168D, A/C GRN TY II P/C 03GN119CAT -- 8010-01-131-6262

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

Product ID:CAT, MIL-C-46168D, A/C GRN TY II P/C 03GN119CAT

MSDS Date:01/28/1991

FSC:8010

NIIN:01-131-6262

Kit Part:Y

MSDS Number: BSYML

=== Responsible Party ===

Company Name:DEFT, INC

Address:17451 VON KARMAN AVE

City:IRVINE

State:CA

ZIP:92714

Country:US

Info Phone Num:714-474-0400

Emergency Phone Num:800-424-9300 CHEMTREC

CAGE:5M511

=== 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

Company Name:DEFT, INC

Address:17451 VON KARMAN AVE

City:IRVINE

State:CA

ZIP:92714-6205

Country:US

Phone:714-474-0400

CAGE:5M511

=====  
Composition/Information on Ingredients  
=====

Ingred Name:ALIPHATIC ISOCYANATE BIURET OF HMDI \*

CAS:4035-89-6

Fraction by Wt: 75%

Ot

her 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 L  
BS

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

=====  
===== 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,SWELL  
W/STING).INGEST: IR

RIT,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: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 DEVELOP. GET MEDICAL AID. SKIN: REMOVE CONTAMINATED CLOTHES. WASH AFFECTED AREAS W/SOAP & WATER. WASH CONTAMINATED CLOTHING BEFORE 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 UNCONSCIOUS 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: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 NO

## N-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 & EYES. DO NOT INGEST.  
DON'T HAND

LE 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.  
REMOVE ALL IGNITION SOURCES.

Protec

tive 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 =====

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

Vapo

r Density:>AIR

Spec Gravity:1.06242

Viscosity:\*

Evaporation 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 WIT

H 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 ACCORD W/FED, STATE, & LOCAL ENVIRONMENTAL CONTROL REGULATIONS. EMPTY CONTAINERS MUST BE HANDLED WITH CARE, DUE TO PRODUCT RESIDUE & FLAMMABLE VAPOR. DON'T INCINERATE CLOSED CONTAINERS. EPA CO

DE: 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 th

eir

particular situation.