

DEFT INC -- MIL-C-461680D, 37038, TY II, AMEND, PC03BK0 -- 8010-01-144-9885

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

Product ID:MIL-C-461680D, 37038, TY II, AMEND, PC03BK0

MSDS Date:01/28/1991

FSC:8010

NIIN:01-144-9885

Kit Part:Y

MSDS Number: BNKSF

=== 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

Emergen

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

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:ETHYL-3-ETHOXYPROPIONATE (VAPOR PRESSURE .7 MM HG)

CAS:763-69-9

RTECS #:UF3325000

Fraction by Wt: 5%.  
Other REC Limits:NONE SPECIFIED

Ingred Name:N-BUTYL ACETATE (SARA III) (VAPOR PRESSURE 8.4 MM HG)  
CAS:123-86-4  
RTECS #:AF7350000  
Fraction by Wt: 25%.  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:150 PPM/200 STEL  
ACGIH TLV:150 PPM/200 STEL  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:ANTISETTLING AGENT  
Fraction by Wt: < 1%.  
Other REC Limits:NONE SPECIFIED

Ingred Name:TOLUENE (SARA III)  
CAS:108-88-3  
RTECS #:XS5250000  
Fraction by Wt: < 1%.  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:200 PPM/150 STEL  
ACGIH TLV:50 PPM; 9293  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:C8 & 10 AROMATIC HYDROCARBON (VAPOR PRESSURE 3 MM HG)  
CAS:64742-95-6  
Fraction by Wt: < 1%.  
Other REC Limits:NONE SPECIFIED

Ingred Name:DISPERSION AGENT  
Fraction by Wt: < 1%.  
Other REC Limits:NONE SPECIFIED

Ingred Name:METHYL ISOBUTYL KETONE (SARA III) (VAPOR PRESSURE 15 MM HG)  
CAS:108-10-1  
RTECS #:SA9275000  
Fraction by Wt: 5%.  
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:ANTI MAR AGENT  
Fraction by Wt: < 1%.  
Other REC Limits:NONE SPECIFIED

Ingred Name:XYLENE (SARA III) (VAPOR PRESSURE 21 MM HG)  
CAS:1330-20-7  
RTECS #:ZE2100000  
Fraction by Wt: < 0.1%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:100 PPM/150 STEL  
ACGIH TLV:100 PPM/150 STEL  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:ETHYL BENZENE (SARA III) (VAPOR PRESSURE 7.1 MM HG)  
CAS:100-41-4  
RTECS #:DA0700000  
Fraction  
by Wt: < 0.1%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:100 PPM/125 STEL  
ACGIH TLV:100 PPM/125 STEL  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:PMGE ACETATE (VAPOR PRESSURE 3.8 MM HG)  
CAS:108-65-6  
RTECS #:AI8925000  
Fraction by Wt: < 0.1%  
Other REC Limits:100 PPM  
OSHA PEL:NONE ESTABLISHED  
ACGIH TLV:NONE ESTABLISHED

Ingred Name:DIBUTYLTIN DILAURATE (VAPOR PRESSURE .2 MM HG)  
CAS:77-58-7  
RTECS #:WH7000000  
Fraction by Wt: < 0.1%  
Other REC Limits:NONE SPECIFIED  
ACGIH TLV:.1MG/M3;.2MG/M3 STE

L

Ingred Name:VOC: 544 G/L  
RTECS #:99999999VO  
Other REC Limits:NONE SPECIFIED

===== Hazards Identification =====

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: VAPORS ARE IRRITATING TO EYES/NOSE AND THROAT. INHAL MAY CAUSE HEADACHES, DIFFICULT BREATHING AND LOSS OF CONSCIOUSNESS. CHRONIC: PROLONGED CONTACT WILL CAUSE DRYING AND CRACKING OF SKIN, DUE T O DEFATTING. SKIN SENSITIZATION, ASTHMAOR OTHER ALLERGIC RESPONSES MAY DEVELOP.  
Effects of Overexposure:INHAL: IRRIT OF RESP TRACT/ACUTE NERV SYS W/HEADACHE/DIZZINESS/STAGGERING GAIT/CONFUSION/UNCONSCIOUSNESS/COMA. SKIN: MOD IRRIT. MAY BE SWELLING/REDNESS/RASH/DRYING/DEFATTING. EYE: IRRIT. MAY CAUSE TEA RING/REDNESS/SWELLING W/STINGING SENSATION. INGEST: IRRIT/POSS CORROSIVE ACTION IN MOUTH/STOMACH TISSUE/DIGEST TRACT.\*\*  
Medical Cond Aggravated by Exposure:ASTHMA AND ANY OTHER RESPIRATORY DISORDERS. SKIN ALLERGIES, ECZ  
EMA AND DERMITITIS.  
\*\*VOMITING MAY CAUSE ASPIRATION OF THE SOLVENT, RESULTING IN CHEMICAL PNEUMONITIS.

===== First Aid Measures =====

First Aid:INHAL: MOVE FROM EXPOSURE. RESTORE BREATHING. ASTHMATIC SYMPTOMS MAY DEVELOP AND MAY BE IMMEDIATE OR DELAYED. GET MED AID. SKIN: REMOVE CONTAMINATED CLOTHING/LAUNDER BEFORE REUSE. WASH WITH SOAP AND W ATER. EYE: FLUSH W/CLEAN LUKEWARM WATER(LOW PRESS) FOR 15 MINS, OCCASIONALLY LIFT ING EYELIDS. GET MED AID. INGEST: DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING TO AN UNCONSCIOUS PERSON. GET MED AID.

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

Flash Point Method:TCC  
Flash Point:45 F  
Lower Limits:1.%  
Extinguishing Media:FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG.  
Fire Fighting Procedures:WEAR FULL EQUIP WITH SCBA & FULL PROTECTIVE CLOTHING. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP, AUTO IGNITION O

R EXPLOSION.

Unusual Fire/Explosion Hazard:KEEP CNTNRS CLSD TIGHT. ISOLATE FROM  
HEAT/SPARKS/ELEC EQUIP/OPEN FLAME/ CLOSED CNTNRS MAY EXPLODE  
W/EXTREME HEAT. APPLICATION TO HOT SURFACES REQUIRES SPECIAL \*

===== 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 TO  
OLS.

===== Handling and Storage =====

Handling and Storage Precautions:STORE IN BLDG TO COMPLY W/OSHA  
1910.106. AVOID STORING NEAR HIGH TEMP/FIRE/OPEN FLAMES/SPARK  
SOURCES. STORE IN TIGHTLY CLSD CNTNRS IN WELL VENT AREA.  
Other Precautions:KEEP CONTAINERS TIGHT & UPRIGHT TO PREVENT LEAKAGE.  
AVOID PROLONGED BREATHING OF VAPOR/MIST, MAY CAUSE ALLERGIC  
REACTION. AVOID CONTACT W/SKIN AND EYES. DO NOT INGEST. DO NOT  
HANDLE UNTIL MFR SAFETY P REC  
AUTIONS HAVE BEEN READ AND UNDERSTOOD

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

Respiratory Protection:RESP APPROVED FOR USE IN ORGANIC VAPOR  
ENVIRONMENT (AIR PURIFYING/FRESH AIR SUPPLIED) IS NECESSARY.  
OBSERVE OSHA REG FOR RESP USE. VENT SHOULD BE PROVIDED TO KEEP EXPO  
LEVELS BELOW OSHA PERMISSIBLE LI MITS. IF TLV LIMITS BELOW  
OSHA/ACGIH\*\*\*\*

Ventilation:EXHST VENT SUFFICIENT TO KEEP AIRBORNE CONC OF SOLVENT  
VAPOR/MIST BELOW RESPECT TLV'S MUST BE U  
TILIZED. CONDITIONS OF\*\*\*

Protective Gloves:COTTON, NEOPRENE, RUBBER, POLYETHYLENE

Eye Protection:SPLSH GUARD/SIDE-FACE SHIELD/CHEM GOGGLE

Other Protective Equipment: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

\*\*\*\*LIMITS, AN AIR SUPPLIED RESP MAY NOT BE REQUIRED. OTHER MSHA/NIOSH  
APPROVED RES

PIRATORS MAY BE USED.

\*\*\*ADDITIVE TOXIC EFFECTS SHOULD BE CONSIDERED,  
SEE ACGIH (THRESHOLD LIMIT VALUES FOR MIXTURES) REMOVE ALL IGNITION  
SOURCES (HEAT, SPARKS, FLAME AND HOT SURFACES).

===== Physical/Chemical Properties =====

Boiling Pt:B.P. Text:205-338 F  
Vapor Density:> THAN AIR  
Spec Gravity:1.33  
Viscosity:THIN TO HEAVY  
Evaporation Rate & Reference:0.84 X N-BUTYL ACETATE  
Appearance and Odor:BLACK LIQUID WITH SOLVENT ODOR.  
Percent Volatiles by Volume:62.7

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

Stability Indicator/Materials to Avoid:YES  
STRONG OXIDIZING AGENTS.  
Stability Condition to Avoid:HIGH TEMPERATURES, SPARKS OR OPEN FLAMES.  
Hazardous Decomposition Products:BY HIGH HEAT/TEMPERATURE: CARBON  
MONOXIDE, CARBON DIOXIDE AND OXIDES OF NITROGEN.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE W/FEDERAL, STATE &  
LOCAL ENVIRONMENTAL CONTROL REG. EMPTY CONTAINERS MUST BE HANDLED  
WITH 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):  
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 their  
particular situation.