

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

Emerge

ncy 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:DIBUTYL TIN 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 ST

EL

Ingred Name:VOC: 544 G/L

RTECS #:9999999VO

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, EC ZEMA 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/LAUNDRER BEFORE REUSE. WASH WITH SOAP AND W ATER. EYE: FLUSH W/CLEAN LUKEWARM WATER(LOW PRESS) FOR 15 MINS, OCCASIONALLY LIF TING 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

OR 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 TOOLS.

===== 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 PRECAUTIONS 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 LIMITS. IF TLV LIMITS BELOW OSHA/ACGIH\*\*\*\*

Ventilation:EXHST VENT SUFFICIENT TO KEEP AIRBORNE CONC OF SOLVENT VAPOR/MIST BELOW RESPECT TLV'S MUST BE UTILIZED. 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 RE

SPIRATORS 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.