

DEFT INC -- CAT, MIL-C-85285B, 12197, P/C 040R001CAT -- 8010-01-329-6298

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

Product ID:CAT, MIL-C-85285B, 12197, P/C 040R001CAT

MSDS Date:02/24/1993

FSC:8010

NIIN:01-329-6298

Kit Part:Y

MSDS Number: BRKMN

=== 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

Emergency

Phone Num:714-474-0400 800-424-9300(CHEMTREC)

Preparer's Name:NORM GAUL

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:ALIPHATIC ISOCYANATE HEXAMETHYLENE DIISOCYANAT

E (HDI)
CAS:28182-81-2
RTECS #:HQ9170000
Fraction by Wt: 55%
Other REC Limits:NONE SPECIFIED
ACGIH TLV:0.005 TWA C 0.02

Ingred Name:AROMATIC HYDROCARBONS (MIXTURE OF C8'S TO C10'S) (VAPOR
PRESSURE 3 MM HG @ 68F)

CAS:64742-95-6
Fraction by Wt: < 5%
Other REC Limits:NONE SPECIFIED
OSHA PEL:100 PPM

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

CAS:123-86-4
RTECS #:AF7350000
Fraction by Wt: < 5%
Other REC Limits:NONE SPECIFIED
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:ETHYL-3-ETHOXYPROPIONATE (VAPOR PRESSURE .7 MM HG @ 68F)

CAS:763-69-9
RTECS #:UF3325000
Fraction by Wt: < 0.1%
Other REC Limits:NONE SPECIFIED
OSHA PEL:STEL 100 PPM
ACGIH TLV:50 PPM - TWA

Ingred Name:METHYL N-PROPYL KETONE (VAPOR PRESSURE 27.8 MM HG @ 68F)

CAS:107-87-9
RTECS #:SA7875000
Fraction by Wt: 25%
Other REC Limits:NONE SPECIFIED
OSHA PEL:200 PPM/STEL 250 PPM
ACGIH TLV:200 PPM/STEL 250 PPM

Ingred Name:VOC: 438 G/L

RTECS #:9

999999VO

Other REC Limits:NONE SPECIFIED

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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:ACUTE: INGESTION: CAN RESULT IN
IRRITATION & POSSIBLE CORROSIVE ACTION IN THE MOUTH, STOMACH TISSUE
& DIGESTIVE TRACT. VOMITING MAY CAUSE ASPIRATION OF THE SOLVENT
RESULTING IN CHEMICAL PNEUMONITIS. VAPORS ARE IRRITATING TO EYES,

NOSE & THROAT. INHALED CAUSE HEADACHES, DIFFICULT BREATHING & LOSS
OF CONSCIOUSNESS.

Effects of Overexposure:INHALATION: IRRITATION RESPIRATORY TRACT.
HEADACHE, DIZZINESS, STAGGERING GAIT, CONFUSION,
UNCONSCIOUSNESS/COMA. SKIN: IRRITATION. SWELLING, REDNESS, RASH.
EYES: LIQUID, AEROSOLS, VAPORS IRRITATING CAUSE TEARING, REDNESS,
SWELLING, STINGING. SKIN ABSORP: CAUSE MODERATE IRRITATION,
DRYING/CRACKING DUE TO DEFATTING ACTION

Medical Cond Aggravated by Exposure:ASTHMA AND ANY OTHER RESPIRATORY
DISORDERS. SKIN ALLERGIES, ECZEMA, AND DERMATITIS. ISOCYANATE
SENSITIZATION. NERVOUS SYSTEM DEPRESSION.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. GET
MEDICAL ATTENTION. SKIN: WASH AFFECTED AREAS WITH SOAP & WATER.
EYES: FLUSH WITH CLEAN LUKEWARM WATER (LOW PRESSURE) FOR AT LEAST
15 MINUTES , OCCASIONALLY LIFTING EYELIDS. GET MEDICAL ATTENTION.
INGESTION
: DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING TO AN
UNCONSCIOUS PERSON. GET MEDICAL ATTENTION.

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

Flash Point Method:TCC
Flash Point:46.0F,7.8C
Lower Limits:1.00 %
Upper Limits:8.00 %
Extinguishing Media:FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG.
Fire Fighting Procedures:FIREFIGHTING EQUIPMENT W/SCBA. H2O USED COOL
CLOSED CONTAINERS PREVENT PRESSURE BUILDUP/AUTO IGNITION/EXPLOSION.
DURING FIRE HDI VAPORS GENERATE

RATED BY COMBUSTION.

Unusual Fire/Explosion Hazard: ISOLATE FROM ALL HEAT TYPES. CLOSED CONTAINERS EXPLODES EXPOSED TO EXTREME HEAT. DURING EMERGENCY CONDITIONS OVEREXPOSURE TO DECOMP. PRODUCTS CAUSE HEALTH HAZARD

===== 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: BUILDINGS DESIGNED TO COMPLY W/OSHA 1910.106 AVOID STORING NEAR HIGH TEMPERATURES. STORE IN TIGHTLY CLOSED CONTAINERS. STORE IN WELL VENTILATED AREAS.
Other Precautions: PREVENT LEAKAGE. PREVENT BREATHING VAPORS, SPRAY MISTS. OVEREXPOSURE CAUSE ALLERGIC REACTIONS. AVOID CONTACT WITH SKIN, & EYES. DON'T INGEST. DON'T HANDLE UNTIL THE MANUFACTURERS SAFETY PRECAUTIONS HAVE BEEN READ & UNDERSTOOD.

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

Respiratory Protection: OBSERVE OSHA REGULATIONS FOR RESPIRATOR USE. VENTILATE AREA TO KEEP EXPOSURE LEVELS BELOW THE OSHA PERMISSIBLE LIMITS. AIR SUPPLIED RESPIRATOR IS RECOMMENDED. VAPOR PARTICULATE RESPIRATOR (TC23C NIOSH/MSHA) APPROPRIATE WHEN 10 TIMES BELOW LIMIT.
Ventilation: EXHAUST VENTILATION SUFFICIENT TO KEEP AIRBORNE CONCENTRATIONS OF SOLVENT, HDI & POLYISOCYANATES BELOW RESPECTIVE TLV'S.
Protective Gloves: COTTON, NEOPRENE, RUBBER, POLYETHYLENE
Eye Protection: CHEMICAL GOGGLES, FULL-FACE SHIELD
Other Protective Equipment: THE USE OF LONG SLEEVE & LONG LEG CLOTHING IS RECOMMENDED. REMOVE & WASH CONTAMINATED CLOTHING BEFORE REUSE.
Work Hygienic Practices: WASH HANDS BEFORE EATING, SMOKING, OR USING WASHROOM. SMOKE IN DESIGNATED AREAS ONLY.
Supplemental Safety and Health

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

Boiling Pt: B.P. Text

t:213 TO 338F

Vapor Density:> AIR

Spec Gravity:1.0036

Evaporation Rate & Reference:1.23 X N-BUTYL ACETATE

Solubility in Water:INSOLUBLE

Appearance and Odor:AMBER LIQUID WITH SOLVENT ODOR

Percent Volatiles by Volume:51.6

===== 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 R

EACT WITH ISOCYANATES AND HIGH TEMPERATURES.

Hazardous Decomposition Products:BY HIGH HEAT/TEMPERATURE: CARBON MONOXIDE, CARBON DIOXIDE, AND OXIDES OF NITROGEN, TRACES OF HCN AND HDI.

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

Waste Disposal Methods:WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE & FEDERAL ENVIRONMENTAL CONTROL REGULATIONS. EMPTY CONTAINERS MUST BE HANDLED WITH CARE, DUE TO PRODUCT RESIDUE AND FLAMMABLE VAPOR. DO NOT IN C I
NERATE CLOSED CONTAINERS.

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