

DEFT INC/CHEMICAL COATING DIV -- 03R064CAT,MIL-C-85285B,11136,TYPE I -- 8010-01-265-9139

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

Product ID:03R064CAT,MIL-C-85285B,11136,TYPE I

MSDS Date:08/20/1993

FSC:8010

NIIN:01-265-9139

MSDS Number: CCGMM

=== Responsible Party ===

Company Name:DEFT INC/CHEMICAL COATING DIV

Address:17451 VON KARMAN AVE

City:IRVINE

State:CA

ZIP:92714-6205

Country:US

Info Phone Num:71

4-474-0400

Emergency Phone Num:714-474-0400

Preparer's Name:NORM GAUL

CAGE:FO129

=== Contractor Identification ===

Company Name:DEFT INC/CHEMICAL COATING DIV

Address:17451 VON KARMAN AVE

City:IRVINE

State:CA

ZIP:92714-6205

Country:US

Phone:714-474-0400

CAGE:FO129

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:TOLUENE (IARC CARC- GROUP 3

) \*96-1\*  
CAS:108-88-3  
RTECS #:XS5250000  
Fraction by Wt: 15%  
Other REC Limits:375 MG/CUM  
OSHA PEL:100 PPM  
ACGIH TLV:100 PPM  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:1,6-HEXAMETHYLENE DIISOCYANATE  
CAS:4035-89-6  
RTECS #:NR0195000  
Fraction by Wt: 45%

Ingred Name:HEXAMETHYLENE DIISOCYANATE  
CAS:822-06-0  
RTECS #:MO1740000  
Fraction by Wt: 0.5%  
ACGIH TLV:0.005 PPM  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:HEXONE, METHYL ISOBUTYL KETONE (MIBK), 4-METHYL-2-PENTANONE  
CAS:108-10-1  
RTE  
CS #:SA9275000  
Fraction by Wt: 40%  
Other REC Limits:50 PPM  
OSHA PEL:410 MG/CUM  
ACGIH TLV:205 MG/CUM  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:VOLATILE ORGANIC CONTENT: 502 G/L  
RTECS #:9999999VO

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:INHALATION: IRRITATION OF RESPIRATORY  
TRACT & NERVOUS SYSTEM DEPRESSION. SKI

N: IRRITATION, ISOCYANATES

REACT W/PROTEIN & MOISTURE. EYES: IRRITATION. INGESTION: IRRITATION. OVEREXPOSURE/SINGLE LARGE DOSE, CERTAIN INDIVIDUALS WILL DEVELOP ISOCYANATE SENSITIZATION.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:IRRITATION, HEADACHE, DIZZINESS, STAGGERING GAIT, CONFUSION, UNCONSCIOUSNESS, COMA, SWELLING, REDNESS, RASH, TEARING, STINGING, DRYING, DEFATTING, BREATHING DIFFICULTIES.

Medical Cond Aggravated by Exposure:ASTHMA & OTHER RESPIRATOR

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DISORDERS, SKIN ALLERGIES, ECZEMA, DERMATITIS. ISOCYANATE SENSITIZATION.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. ASTHMATIC TYPE SYMPTOMS MAY DEVELOP & MAY BE IMMEDIATE/DELAYED BY SEVERAL HOURS. SKIN: WASH THOROUGHLY W/SOAP & WATER. EYES: FLUSH W/CLEAN LUKEWARM WATER (LOW PRESSURE) FOR 15 MINS. INGESTION: DON'T INDUCE VOMITING. DON'T GIVE ANYTHING TO AN UNCONSCIOUS PERSON. OBTAIN

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MEDICAL ATTENTION IN ALL CASES.

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

Flash Point Method:TCC

Flash Point:45F

Lower Limits:1

Upper Limits:8

Extinguishing Media:FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG, WATER SPRAY.

Fire Fighting Procedures:WEAR SCBA W/FULL PROTECTIVE CLOTHING. USE WATER TO COOL CONTAINERS.

Unusual Fire/Explosion Hazard:APPLICATION TO HOT SURFACES REQUIRES SPECIAL PRECAUTIONS.

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===== Accidental Release Measures =====

Spill Release Procedures:EVACUATE AREA. REMOVE IGNITION SOURCES. VENTILATE AREA. CONTAIN & REMOVE W/INERT ABSORBENT & NON-SPARKING TOOLS.

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

Handling and Storage Precautions:STORE IN BUILDING DESIGNED TO COMPLY W/OSHA. AVOID HIGH TEMP. STORE IN WELL VENTILATED AREA. KEEP CONTAINERS TIGHT & UPRIGHT TO PREVENT LEAKAGE.

Other Precautions:AVOID VAPORS/SPRAY MISTS. OVEREXPOSURES MAY CAUSE ALL

ALLERGENIC REACTION. AVOID CONTACT W/SKIN & EYES. DON'T TAKE INTERNALLY. SMOKE IN SMOKING AREAS ONLY.

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

Respiratory Protection: AIR PURIFYING/FRESH AIR SUPPLIED RESPIRATOR APPROVED FOR USE IN AN ORGANIC VAPOR ENVIRONMENT.

Ventilation: EXHAUST VENTILATION SUFFICIENT TO KEEP AIRBORNE CONCENTRATIONS BELOW TLVS.

Protective Gloves: COTTON, NEOPRENE, RUBBER, POLYETHYLENE

Eye Protection: SPLASH GUARDS/SIDE SHIELDS

Other Protective

Equipment: CHEMICAL GOGGLES/FACE SHIELDS, LONG SLEEVE & LONG LEG CLOTHING.

Work Hygienic Practices: REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. WASH THOROUGHLY BEFORE EATING, SMOKING/USING WASHROOM.

Supplemental Safety and Health

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

Boiling Pt: B.P. Text: 230-428F

Vapor Density: >1

Spec Gravity: 0.93397

Evaporation Rate & Reference: (N-BU AC =1): 1.39

Solubility in Water: INSOLUBLE

Appearance and Odor: AMBER LIQUID W/S

OLVENT ODOR.

Percent Volatiles by Volume: 61.2

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

Stability Indicator/Materials to Avoid: YES

WATER, AMINES, STRONG BASES, ALCOHOLS, METAL COMPOUNDS & SURFACE ACTIVE MATERIALS.

Stability Condition to Avoid: HEAT, SPARKS, ELECTRICAL EQUIPMENT, OPEN FLAME, HOT SURFACES.

Hazardous Decomposition Products: HIGH TEMP: CO, CO<sub>2</sub>, OXIDES OF NITROGEN, TRACES OF HYDROGEN CYANIDE & HEXAMETHYLENE DIISOCYANATE.

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Waste Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF IAW/FEDERAL, STATE & LOCAL REGULATIONS. EMPTY CONTAINERS MUST BE HANDLED W/CARE, DUE TO PRODUCT RESIDUE & FLAMMABLE VAPOR. DON'T INCINERATE CLOSED CONTAINERS. EPA HAZARDOUS NUMBER: D001, F0 03, F005. FLAMMABLE LIQUID UN-1263.

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