

DEFT INC CHEMICAL COATING DIV -- CAT, MIL-C-83286B, 12197 LEAD FREE, 03OR051 --
8010-00-181-8296

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

Product ID:CAT, MIL-C-83286B, 12197 LEAD FREE, 03OR051

MSDS Date:06/06/1991

FSC:8010

NIIN:00-181-8296

Kit Part:Y

MSDS Number: BLMZX

=== Responsible Party ===

Company Name:DEFT INC CHEMICAL COATING DIV

Address:17451 VON KARMAN AVE

City:IRVINE

State:CA

ZIP:92714-6205

C

Country:US

Info Phone Num:714-474-0400

Emergency Phone Num:800-424-9300 CHEMTREC

Preparer's Name:NORM GAUL

CAGE:33461

=== 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

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

Ingred Name:ALIPHATIC ISOCYANATE (VAPOR PRESSURE: 0 MM HG)*

CAS:28182-81-2

Fraction by Wt: 30%

Other REC Limits:NONE SPECIFIED

Ingred Name:*HEXAMETHYLE

cation =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: VAPORS IRRITATING TO

EYES/NOSE/THROAT. INHALATION: IRRITATION, ACUTE NERVOUS SYSTEM
DEPRESSION. CHRONIC: PROLONGED CONTACT WILL CAUSE DEFATTING ACTION.
INGESTION: IRRITATION. ASPIRATION CAN CAUSE CHEMICAL PNEUMONITIS.
AS A RESULT OF PREVIOUS REPEATED OVEREXPOSURE OR SINGLE LARGE DOSE,
CERTAIN INDIVI

DUALS WILL **

Effects of Overexposure:INHAL: DIFFICULT BREATHING, HEADACHE,

DIZZINESS, STAGGERING GAIT, CONFUSION, UNCONSCIOUSNESS, COMA. SKIN:
IRRIT (SWELLING/REDNESS/RASH). EYES: REDNESS, TEARING, SWELLING
W/STINGING. SKIN: SWELL/REDNESS/RASH. PROLONG/REPEAT--MOD IRRIT,
DRYING, SKIN CRACKING. INGEST: VOMIT. IRRIT. CORROSIVE TO
MOUTH/STOMACH/DIGEST TRACT.

Medical Cond Aggravated by Exposure:ASTHMA AND ANY OTHER RESPIRATORY
DISORDERS. SKIN ALLERGIES, ECZEMA, AND DERMATITI

S.

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

First Aid:INHALATION: MOVE TO FRESH AIR. RESTORE BREATHING. ASTHMATIC
TYPE SYMPTOMS MAY DEVELOP (IMMED/DELAYED BY SEVERAL HRS). GET MED
AID. SKIN: REMOVE CONTAM CLOTHING. WASH AREA W/SOAP & WATER. WASH
CONTAM CLOTHING BEFORE REUSE. EYES: FLUSH WITH LUKEWARM WATER (LOW
PRESSURE)--15 MIN, LIFTING UPPER/LOWER LIDS. GET MED AID.
INGESTION: DON'T INDUCE VOMIT. NOTHING BY MOUTH TO UNCONSCIOUS
PERSON. GET
MED AID.

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

Flash Point Method:TCC

Flash Point:24.0F,-4.4C

Lower Limits:1%

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

Fire Fighting Procedures:FULL FIRE FIGHT EQUIP W/SCBA & FULL PROTECT
CLOTH. USE WATER TO COOL CLOSED CNTNRS/PREVENT PRESSURE
BUILD-UP/AUTO IGNITE/EXPLOSION. HDI/IRRIT VAPORS GENERATED.

Unusual Fire/Explosion Hazard:KEEP FROM IGNITE SOURCES. CLOSED CNTNR
MAY EXPLODE W/HEAT.

USE SPECIAL PRECAUTION W/APPLIC TO HOT SURFACES.
DURING EMERG COND, OVEREXPOS TO DECOMP PROD/HEALTH 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 NON-SPARKING TOOLS.

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

Handling and Storage Precautio

ns:STORE IN BLDG IN COMPLIANCE W/OSHA

1910.106. AVOID HIGH TEMP, IGNITION SOURCES. STORE IN TIGHTLY CLOSED CONTAINERS. STORE IN WELL VENT AREAS.

Other Precautions:KEEP CNTNRS TIGHT/UPRIGHT (PREVENT LEAKAGE). NO PROLONGED BREATHING OF VAPORS/SPRAY MISTS. AVOID CONTACT W/SKIN/EYES. DO NOT TAKE INTERNALLY. DO NOT HANDLE UNTIL THE SAFETY PRECAUTIONS HAVE BEEN READ/ UNDERSTOOD. SMOKE ONLY IN SMOKING AREAS.

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

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Respiratory Protection:USE ORGANIC VAPOR RESPIRATOR (AIR PURIFYING/FRESH AIR). OBSERVE OSHA REGS (RESPIRATOR USE). PROVIDE VENT (KEEP EXPOSURE LEVELS BELOW OSHA LIMITS). VAPOR PARTIC RSPRTR (TC23C--NIOSH/MSHA) IF VAPOR LEVELS BELOW 10 X EXPOSURE LIMITS.

Ventilation:EXHAUST VENT SUFFICIENT TO KEEP AIRBORNE CONC (SOLVENT/POLYISOCYANATES/HDI) BELOW TLV'S. REMOVE ALL IGNITION SOURCES.

Protective Gloves:COTTON, NEOPRENE, RUBBER, POLYETHYLENE

Eye Protection:SPLASH GUARDS/SIDE SHIELDS/CHEM GOGGLES

Other Protective Equipment:FACE SHIELDS. THE USE OF LONG SLEEVE AND LONG LEG CLOTHING IS RECOMMENDED.

Work Hygienic Practices:REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REUSE. WASH HANDS BEFORE EATING, SMOKING OR USING WASHROOM.

Supplemental Safety and Health

**DEVELOP ISOCYANATE SENSITIZATION WHICH WILL CAUSE THEM TO REACT TO A LATER EXPOSURE OF ISOCYANATES LEVELS WELL BELOW THE TLV VALUE OF ISOCYANATES.

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

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HCC:F2

Boiling Pt:B.P. Text:175 TO 338F

Vapor Density:> AIR

Spec Gravity:0.91

Viscosity:*

Evaporation Rate & Reference:3.7 X N-BUTYL ACETATE

Solubility in Water:INSOLUBLE

Appearance and Odor:AMBER LIQUID WITH SOLVENT ODOR.

Percent Volatiles by Volume:74.9

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

Stability Indicator/Materials to Avoid:YES

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

Stability Condition to A

void:CONTACT WITH MOISTURE, MATERIALS WHICH REACT 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 IN ACCORD W/FEDERAL, STATE & LOCAL ENVIRONMENTAL CONTROL REGULATIONS. EMPTY CONTAINERS MUST BE HANDLED W/CARE (PRODUCT RESIDUE/FLAMMABLE VAPOR). DON'T INCINERATE CLOSED CNTNRS. EPA HAZARDOUS WASTE #: D001, F003, F005.

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