

DEFT INC CHEMICAL COATING DIV -- CAT, MIL-C-83286B, 12197 LEAD FREE, 03OR051 --  
8010-00-181-8294

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

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

MSDS Date:06/06/1991

FSC:8010

NIIN:00-181-8294

Kit Part:Y

MSDS Number: BLMZV

=== 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 EMERGENCY CONDITIONS, OVEREXPOSURE TO DECOMPOSITION PRODUCT/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:

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 CONTAINERS 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:RESPIRATOR RECOMMENDED/APPROVED FOR ORGANIC VAPOR ENVIRONMENT (AIR PURIFYING/FRESH AIR). OBSERVE OSHA REGS (RESPIRATOR USE). VENTILATION (KEEP EXPOSURE LEVELS < OSHA LIMITS). VAPOR PARTICULATE RESPIRATOR (TC23C--NIOSH/MSHA) IF VAPOR LEVELS BELOW 10 X EXPOSURE LIMITS.

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

Protective Gloves:COTTON, NEOPRENE, RUBBER, POLYETHYLENE

Eye Protection:SPLASH GUARDS/SIDE

FACE 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

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Stability and Reactivity Data  
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Stability Indicator/Materials to Avoid:YES  
WATER, AMINES, STRONG BASES, ALCOHOLS, METAL COMPOUNDS AND SURFACE  
ACTIVE MATERIALS.  
Stability Condit  
ion to Avoid: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.

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Disposal Considerations  
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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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