

DEFT INC CHEMICAL COATING DIV -- CAT,MIL-C-85285B,24052,TYPE II;04GN003CAT --  
8010-01-330-0614

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

Product ID:CAT,MIL-C-85285B,24052,TYPE II;04GN003CAT  
MSDS Date:07/13/1992  
FSC:8010  
NIIN:01-330-0614  
Kit Part:Y  
MSDS Number: BVQFW  
=== 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:714-474-0400  
Emergency Phone Num:714-474-0400 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:HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE (HDI)  
CAS:28182-81-2  
RTECS #:NQ9170000  
Fraction by Wt: 90%  
Other REC Limits:NONE RECOMMEN

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Ingred Name:1,6-DIISOCYANATOHEXANE (HEXAMETHYLENE DIISOCYANATE)  
CAS:822-06-0  
RTECS #:MO1740000  
Fraction by Wt: 0.5-1.6%  
Other REC Limits:NONE RECOMMENDED  
ACGIH TLV:0.005 PPM; 9394  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:NAPHTHA, LIGHT AROMATIC (SOLVENT NAPHTHA)  
CAS:64742-95-6  
RTECS #:WF3400000  
Fraction by Wt: 5%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:N-BUTYL ACETATE (SARA III)  
CAS:123-86-4  
RTECS #:AF7350000  
Fraction by Wt: 5%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:150 P  
PM  
ACGIH TLV:150 PPM/200STEL;9394  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

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===== Hazards Identification =====  
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LD50 LC50 Mixture:ORAL LD50 (RAT) IS 738MG/KG FOR HDI  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:EYES/SKIN:ISOCYANATES REACT WITH SKIN  
PROTEINS AND MOISTURE TO CAUSE IRRITATION.SKIN ABSORPTION MAY CAUSE  
DEFATTING.INHAL:MAY CAUSE RESPIRATORY IRRIT  
ATION AND NERVIOS  
SYSTEM DEPRESSION.INGEST:CORROSI VE TO MUCOSAL TISSUE.MAY CAUSE  
LUNG DAMAGE IF VOMITED AFTER INGESTING.CHRONIC:ISOCYANATE  
SENSITIZATION.  
Explanation of Carcinogenicity:THERE ARE NO INGREDIENTS ABOVE 0.1%  
WHICH ARE IDENTIFIED AS CARCINOGENS BY NTP,IARC OR OSHA.  
Effects of Overexposure:INHAL:DIFFICULT  
BREATHING,HEADACHE,DIZZINESS,STAGGERING GAIT,CONFUSION,LEADING TO  
UNCONSCIOUSNESS OR COMA.SKIN/EYES:SWEELING  
REDNESS,RASH,DRYNESS,CRACKING.CHRONIC OVERE

XPOSURE WILL RESULT IN

REACTION TO PROGRESSIVELY SMALLER DOSES OF ISOCYANTES.

Medical Cond Aggravated by Exposure: PERSONS WITH PRE-EXISTING  
RESPIRATORY, SKIN AILMENTS OR ISOCYANATE SENSITIZATION MAY BE AT  
INCREASED RISK FROM EXPOSURE.

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

First Aid: SKIN: REMOVE CONTAMINATED CLOTHING; WASH WITH SOAP AND  
WATER. EYES: FLUSH WITH LUKEWARM WATER FOR 15  
MINUTES. INHAL: NOTE-ASTHMATIC RESPONSE MAY BE DELAYED. REMOVE TO

FRESH AIR. GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF  
NEEDED. INGEST: DO NOT INDUCE VOMITING. GET PROMPT QUALIFIED MEDICAL  
ATTENTION.

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

Flash Point Method: TCC

Flash Point: 76.0F, 24.4C

Lower Limits: 1.00

Upper Limits: 7.6

Extinguishing Media: WATER FOG, DRY CHEMICAL, CARBON DIOXIDE, FOAM, ALCOHOL  
FOAM.

Fire Fighting Procedures: USE A SELF-CONTAINED BREATHING APPARATUS AND  
FULL PROTECTIVE EQUIPMENT. COOL FIRE EXPOSED CONTAINERS  
WITH WATER  
FOG.

Unusual Fire/Explosion Hazard: FIRE CONDITIONS MAY EVOLVE TOXIC  
FUMES. CONTAINERS MAY BURST FROM HEAT OF FIRE.

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

Spill Release Procedures: ELIMINATE SOURCES OF IGNITION. USE PROPER  
RESPIRATORY AND PROTECTIVE EQUIPMENT. SHUT OFF LEAK IF  
SAFE. DIKE. SOAK UP WITH A NON-COMBUSTIBLE INERT  
ABSORBANT (CLAY, SAND); PLACE IN PROPER CONTAINER FOR DISPOSAL. USE  
NON-SPARKING TOOLS.

Neutralizing Agent: NONE

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL-VENTILATED PLACE.KEEP CONTAINER CLOSED WHEN NOT IN USE.AVOID HEAT, SOURCES OF IGNITION, MOISTURE AND INCOMPATIBLE MATERIALS.

Other Precautions:EMPTY CONTAINERS MAY CONTAIN HAZARDOUS RESIDUE;DISPOSE OF PROPERLY.AVOID SKIN AND EYE CONTACT.DO NOT BREATHE VAPORS.

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

Respiratory Protection:WHERE ENVIRONMENTAL CONTROLS ARE LACKING OR IN ENCLOSED SPACES USE EITHER A SELF-CONTAINED BREATHING APPARATUS OR A NOISH/MSHA APPROVED RESPIRATOR FOR ORGANIC VAPOR PARTICULATES(TC23C), DEPENDING ON THE AIRBORN CONCENTRATION.

Ventilation:LOCAL VENTILATION AT THE WORKSITE;MECHANICAL(GENERAL) VENTILATION TO MAINTAIN TLV/PEL.USE NON-SPARKING EQUIPMENT.

Protective Gloves:COTTON, NEOPRENE, RUBBER, POLYETHYLENE

Eye Protection:CHEMICAL SPLASH GOGGLES.

Other Protective Equipment:PROTECTIVE CLOTHING, AS NEEDED.PROVIDE A LOCAL EYE WASH STATION AND SAFETY SHOWER.

Work Hygienic Practices:WASH HANDS.SEPERATE WORK CLOTHES FROM STREET CLOTHES.LAUNDER WORK CLOTHES BEFORE REUSE.KEEP FOOD OUT OF THE WORK AREA.

Supplemental Safety and Health

KEY1;F4.CONCENTRATION OF FREE HDI MONOMER INCREASES AFTER 3-6 MONTHS OF STORAGE-USE CAUTION FOR PRESSURE BUILDUP IN CONTAINERS REMOVED FROM STORAGE.

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

HCC:F3

Boiling Pt:B.P. Te

xt:260F-335F

Vapor Density:>1

Spec Gravity:1.128

Evaporation Rate & Reference:0.44 (N-BUTYL ACETATE=1)

Appearance and Odor:LIQUID;AMBER;SOLVENT ODOR

Percent Volatiles by Volume:12.9

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

Stability Indicator/Materials to Avoid:YES

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

Stability Condition to Avoid:MOISTURE, HIGH HEAT.

Hazardous Decomposition Products:CARBON DIOXIDE, CARBON MONOXIDE, OXIDES

OF NITROGEN, TRACES OF HCN AND HEXAMETHYLENEDIISOCYANATE.

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

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. EPA CODES: D001, F003, F005; WASTE CHARACTERISTICS: IGNITABILITY, REACTIVITY.

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