

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

Count

ry: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 RECOMME

NDED

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  
PPM  
ACGIH TLV:150 PPM/200STEL;9394  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

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

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 IRRI  
TATION 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 OVER

EXPOSURE WILL RESULT IN

REACTION TO PROGRESSIVELY SMALLER DOSES OF ISOCYANATES.

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

===

===== **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. T

ext: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.

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.