

DEFT INC CHEMICAL COATING DIV -- 03W040CAT POLYURETHANE CATALYST -- 8010-00-181-8282  
===== Product Identification =====

Product ID:03W040CAT POLYURETHANE CATALYST

MSDS Date:06/28/1990

FSC:8010

NIIN:00-181-8282

Kit Part:Y

MSDS Number: BHWYY

=== 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

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: 30%

Ingred Name:N-BUTYL ACETATE (SARA III)

CAS:123-86-4

RTECS #:AF7350000

Fraction by Wt: 5%

OSHA PE

L:150 PPM/200 STEL  
ACGIH TLV:150 PPM/200STEL;9192  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:XYLENES (O-,M-,P- ISOMERS) (SARA III)  
CAS:1330-20-7  
RTECS #:ZE2100000  
Fraction by Wt: 5%  
OSHA PEL:100 PPM/150 STEL  
ACGIH TLV:100 PPM/150STEL;9192  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:ETHYL-3-ETHOXYPROPIONATE  
CAS:763-69-9  
RTECS #:UF3325000  
Fraction by Wt: 10%

Ingred Name:METHYL ETHYL KETONE (2-BUTANONE) (MEK) (SARA III)  
CAS:78-93-3  
RTECS #:EL6475000  
Fraction by Wt: 45%  
OSHA  
PEL:200 PPM/300 STEL  
ACGIH TLV:200 PPM/300STEL 9192  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:1,6-DIISOCYANATOHEXANE (HEXAMETHYLENE DIISOCYANATE)  
CAS:822-06-0  
RTECS #:MO1740000  
Fraction by Wt: 0.7-1.6%  
ACGIH TLV:0.005 PPM; 9192  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:LIQUID IS

SEVERELY IRRITATING TO BODY

TISSUES. HEXAMETHYLENE DISOCYANATE MAY SENSITIZE SEVERE ALLERGIC REACTIONS SUCH AS CHEMICAL ASTHMA. THERE IS NO PEL FOR HDI; USE TLV. SOLVENTS ARE ABSORBED BY THE SKIN AND WITH CHRONIC OVEREXPOSURE MAY CAUSE PERMANENT CENTRAL NERVOUS SYSTEM DAMAGE KNOWN AS PAINTERS SYNDROME.

Explanation of Carcinogenicity: THE PRODUCT CONTAINS NO INGREDIENT THAT IS LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN.

Effects of Overexposure: EYE: SEVERE IRRITATION. SKIN: IRRITATION,

DERMATITIS, SENSITIZED DERMATITIS. INHALED: RESPIRATORY IRRITATION, FLU-LIKE SYMPTOMS, ASTHMA, SENSITIZING, NARCOSIS, LOSS OF APPETITE. INGESTED: G/I IRRITATION, HEADACHE, NAUSEA, VOMITING, DIARRHEA.

Medical Cond Aggravated by Exposure: SINCE HDI SENSITIZES DERMAL AND RESPIRATORY ALLERGYS, PEOPLE WITH ISOCYANATE SENSITIZATION, OR DERMATITIS, ASTHMA, AND OTHER SIMILAR DISORDERS SUCH AS EMPHYSEMA, ECZEMA, ETC. MAY BE AT INCREASED RISK.

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First

Aid Measures =====

First Aid: EYE: FLUSH W/WATER 15 MIN HOLD LIDS OPEN. SEE A DOCTOR. SKIN: REMOVE CONTAMINATED CLOTHING AND LAUNDRER BEFORE REUSE. WASH WITH SOAP & WATER. INHALED: REMOVE TO FRESH AIR. RESTORE BREATHING IF NECESSARY. GET MEDICAL CARE AS ASTHMATIC SYMPTOMS MAY DEVELOP EITHER IMMEDIATELY OR BE DELAYED SEVERAL HOURS. INGESTED: DO NOT INDUCE VOMITING. GIVE MILK OR WATER TO DRINK IF CONSCIOUS. GET IMMEDIATE MEDICAL CARE

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F

Fire Fighting Measures =====

Flash Point Method: TCC

Flash Point: -5.C, 23.F

Lower Limits: 1%

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

Fire Fighting Procedures: FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard: FIRE OR EXCESSIVE HEAT MAY CAUSE PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS.

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

Spill Release Procedures:ELIMINATE IGNITION SOURCES. VENTILATE AREA. ALWAYS USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. COVER SPILL WITH SAWDUST,VERMICULITE,ETC. COLLECT MATERIAL USING NON-SPARKING TOOLS.

Neutralizing Agent:NONE

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

Handling and Storage Precautions:STORE TIGHTLY CLOSED IN A COOL DRY AREA. KEEP AWAY FROM IGNITION SOURCES SUCH AS SPARKS,OPEN FLAME, ETC.

Other Precautions:'EMPTY' CONTAINERS MAY CONTAIN RESIDUE OR VAPOR. TREAT THEM WITH THE RESPECT DUE FULL ONES. DO NOT CUT,WELD,ETC. ON THEM. DO NOT USE UNTIL MFR'S INSTRUCTIONS HAVE BEEN READ. FOLLOW THEM!

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

Respiratory Protection:USE POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR ANY TIME THE EXPOSURE IS ABOVE THE TLV, AND AT ALL TIMES DURING SPRAYING OPERATIONS. OTHER RESPIRATORS MAY BE USED FOR SHORT (1 HOUR) EXPOSURES ONLY!!

Ventilation:GENERAL VENTILATION SUPPLEMENTED WITH LOCAL EXHAUST, AS NEEDED TO MAINTAIN EXPOSURES BELOW PEL/TLV.

Protective Gloves:RUBBER,VINYL OR OTHER IMPERVIOUS

Eye Protection:GOGGLES OR FACE SHIELD \*\*NO CONTACTS!!\*

Other Protective Equipment:EYE WASH STATION & SAFETY SHOWER. COVER AS MUCH SKIN AS POSSIBLE DURING SPRAYING OPERATIONS.

Work Hygienic Practices:USE STRICT CHEMICAL HYGIENE PRACTICES. AVOID ALL CONTACT POSSIBLE. WASH THOROUGHLY AFTER USING.

Supplemental Safety and Health

INHALATION AND SKIN CONTACT ARE MOST DAMAGING EXPOSURES. PART B OF A TWO PART KIT. SEE P/N IND C THIS NSN FOR PART A. NEW FORMULATION EFFECTIVE JUNE90.

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

HCC:F2

Boiling Pt:=79.4C, 175.F

Vapor Density:>1

Spec Gravity:0.91

Evaporation Rate & Reference:3.7 (BUTYL ACETATE = 1)

Appearance and Odor:AMBER LIQUID, SOLVENT ODOR

Percent Volatiles by Volume:62.7

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

Stability Indicator/Materials to Avoid: YES

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

Stability Condition to Avoid: HIGH TEMPERATURES, MOISTURE

Hazardous Decomposition Products: CARBON DIOXIDE, CARBON MONOXIDE, TRACES ON HYDROGEN CYANIDE, OXIDES OF NITROGEN, HEXAMETHYLENE DIISOCYANATE.

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

Waste Disposal Methods: DISPOSE I/A/W FEDERAL, STATE, LOCAL REGULATIONS.

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