

DEFT, INC. -- TYPE I. GS, ALIPHATIC ISOCYANATE MI-PRF-85285C (MIL-C-85285B --  
8010-01-293-0780

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

Product ID:TYPE I. GS, ALIPHATIC ISOCYANATE MI-PRF-85285C (MIL-C-85285B

MSDS Date:10/14/1997

FSC:8010

NIIN:01-293-0780

Status Code:A

MSDS Number: CLNMZ

=== Responsible Party ===

Company Name:DEFT, INC.

Address:17451 VON KARMAN AVE

City:IRVINE

State:CA

ZIP:92614

Country:US

Info Phone Num:949-474-0400

Emergency Phone Num:800-424-930

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Preparer's Name:ERNEST CARTER

Chemtrec Ind/Phone:(800)424-9300

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:POLY(HEXAMETHYLENE DIISOCYANATE)

CAS:28182-81-2

RTECS #:NQ9170000

= Wt:35.

Ingred Name:C8&10 AROMATIC HYDROCARBON

CAS:64742-95-6

Code:F

RTECS #:WF3400000

&lt; Wt:5.

Ingred Name:N-

BUTYL ACETATE  
CAS:123-86-4  
RTECS #:AF7350000  
< Wt:5.  
OSHA PEL:710 MG/M3;150 PPM  
ACGIH TLV:713 MG/M3;150 PPM  
ACGIH STEL:950 MG/M3;200 PPM  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:ETHYL 3-ETHOXYPROPIONATE  
CAS:763-69-9  
RTECS #:UF3325000  
= Wt:20.

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

Health Hazards Acute and Chronic:VAPORS ARE IRRITATING TO EYES, NOSE  
AND THROAT. INHALATION MAY CAUSE HEADACHES, DIFFICULT BREATHING AND  
LOSS OF CONSCIOUSNESS. A  
S A RESULT OF PREVIOUS REPEATED  
OVEREXPOSURE OR A SINGLE LARGE DOSE, CERTAIN INDIVIDUALS WILL  
DEVELOP ISOCYANATE SENSITIZATION WHICH WILL CAUSE THEM TO REACT TO  
A LATER EXPOSURE OF ISOCYANATE LEVELS WELL BELOW THE TLV VALUE OF  
ISOCYANATES.  
Effects of Overexposure:INHALATION: IRRITATION OF THE RESPIRATORY TRACT  
HEADACHE, DIZZINESS, STAGGERING GAIT, CONFUSION, UNCONSCIOUSNESS OR  
COMA. SKIN:ISOCYANATES MAY BE SWELLING, REDNESS, AND  
RASH.EYES:VAPORS MAY CAUSE TEAR ING,  
REDNESS, AND SWELLING  
ACCOMPANIED BY A STINGING SENSATION. INGESTION: CAN RESULT IN  
CORROSIVE ACTION IN THE MOUTH, STOMACH TISSUE AND DIGESTIVE TRACT.  
Medical Cond Aggravated by Exposure:ASTHMA AND ANY OTHER RESPIRATORY  
DISORDERS. SKIN ALLERGIES, ECZEMA, AND DERMATITIS. ISOCYANATE  
SENSITIZATION.

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

First Aid:INHALATION: MOVE TO AN AREA FREE FROM RISK OF FURTHER  
EXPOSURE. RESTORE BREATHING. ASTHMATIC TYPE SYMP

TOMS MAY DEVELOP

AND MAY BE IMMEDIATE OR DELAYED BY SEVERAL HOURS. OBTAIN MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER.EYES: FLUSH WITH CLEAN LUKE WARM WATER (LOW PRESSURE) FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING EYELIDS.OBTAIN MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING.DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING TO AN UNCONSCIOUS PERSON. OBTAIN MEDICAL ATTENTION.

===== Fi  
re Fighting Measures =====

Flash Point Method:TCC

Flash Point:=24.4C, 76.F

Lower Limits:1.00%

Upper Limits:7.60%

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

Fire Fighting Procedures:FULL FIRE FIGHTING EQUIPMENT WITH SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING SHOULD BE WORN BY FIRE FIGHTERS. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD UP AUTO IGNITION OR EXPLOSION. DURING A FIRE HDI VAPORS AND OTHER IRRITATING VAPORS MAY BE GENERATED BY COMBUSTION OR T

Unusual Fire/Explosion Hazard:KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, SPARKS, ELECTRICAL EQUIPMENT AND OPEN FLAME. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. APPLICATION TO HOT SURFACES REQUIRES SPECIAL PRECAUTIONS. DURING EMERGENCY CONDITIONS OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD.

===== Accidental Release Measures =====  
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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 TIGHTLY CLOSED CONTAINERS.

Other Precautions:KEEP CONTAINERS TIGHT AND UPRIGHT TO PREVENT LEAKAGE.

===== Exposure Controls/Personal Protection

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Respiratory Protection:A RESPIRATOR THAT IS RECOMMENDED OR APPROVED FOR USE IN AN ORGANIC VAPOR ENVIRONMENT (AIR PURIFYING OR FRESH AIR SUPPLIED) IS NECESSARY. OBSERVE OSHA REGULATIONS FOR RESPIRATOR USE.

Ventilation:EXHAUST VENTILATION SUFFICIENT TO KEEP AIRBORNE CONCENTRATIONS OF SOLVENT, HDI, AND POLYISOCYANATES BELOW RESPECTIVE TLVS;

Protective Gloves:PROTECTIVE GLOVES ARE RECOMMENDED.

Eye Protection:SPLASH GUARDS OR SIDE SHIELDS, CHEMICAL GOGGLES OR FACE SHIELDS.

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

Supplemental Safety and Health

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

Boiling Pt:B.P. Text:260-428 DEG F

Vapor Density:HEAVIER

Spec Gravity:1.08163

VOC Pounds/Gallon:279

VOC Grams/Liter:9.01

Viscosity:THIN LIQUID TO HEAVY

Evaporation Rate & Reference:0.16 X N-BUTYL ACETATE

Solubility in Water:INSOLUBLE

Appearance and Odor:AMBER LIQUID WITH SOLVENT ODOR  
Per

cent Volatiles by Volume:29.9%

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

Stability Indicator/Materials to Avoid:YES

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

Stability Condition to Avoid:CONTACT WITH MOISTURE, MATERIAL WHICH REACT WITH ISOCYANATES AND HIGH TEMPERATURES.

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE, AND OXIDES OF NITROGEN, TRACES OF HCN AND HDI.

Conditions to Avoid Polymerizatio

n:WILL NOT OCCUR.

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

Waste Disposal Methods:WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH  
FEDERAL, STATE, AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS.

===== Other Information =====

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