



Material Safety Data Sheet

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SECTION I - Material Identity

Item Name	
Part Number/Trade Name	99GY001 DEPTHANE ELT 36173 (FLURO POLYURETHANE) GRAY
National Stock Number	8010P99-GY-001
CAGE Code	33461
Part Number Indicator	A
MSDS Number	194522
HAZ Code	C

SECTION II - Manufacturer's Information

Manufacturer Name	DEFT, INC
Street	17451 VON KARMAN AVE
City	IRVINE
State	CA
Country	US
Zip Code	92614
Emergency Phone	800-424-9300 CHEMTREC
Information Phone	949-474-0400

MSDS Preparer's Information

Date MSDS Prepared/Revised	24FEB04
Active Indicator	Y

Alternate Vendors

Specification Number	MIL-C-85285
Hazard Storage Compatibility Code	NR
NRC License Number	NR
Net Propellant Weight (Ammo)	NR
Appearance/Odor	GRAY LIQUID WITH SOLVENT ODOR
Boiling Point	260-480 F
Melting Point	NR
Vapor Pressure	NR
Vapor Density	> AIR
Specific Gravity	1.1129
Decomposition Temperature	NR
Evaporation Rate	0.37
Solubility in Water	INSOLUBLE
Percent Volatiles by Volume	55.2
Chemical pH	NA
Corrosion Rate	NR
Container Type	R
Container Pressure Code	1
Temperature Code	4
Product State Code	L

SECTION IV - Fire and Explosion Hazard Data

Flash Point	67
Flash Point Method	TCC
Lower Explosion Limit	0.81
Upper Explosion Limit	14
Extinguishing Media	FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG, WATER SPRAY
Special Fire Fighting Procedures	FULL FIRE FIGHTING EQUIPMENT WITH SCBA AND FULL PROTECTIVE GEAR SHOULD BE WORN BY FIRE FIGHTERS. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILDUP, AUTO IGNITION OR EXPLOSION
Unusual Fire/Explosion Hazards	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. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT

Stability	YES
Stability Conditions to Avoid	HIGH TEMPERATURES, SPARKS, OR OPEN FLAMES
Materials to Avoid	STRONG OXIDIZING AGENTS
Hazardous Decomposition Products	CARBON MONOXIDE, CARBON DIOXIDE, AND OXIDES OF NITROGEN
Hazardous Polymerization	NO
Polymerization Conditions to Avoid	WILL NOT OCCUR

SECTION VI - Health Hazard Data

Route of Entry: Skin	YES
Route of Entry: Ingestion	YES
Route of Entry: Inhalation	YES
Health Hazards - Acute and Chronic	[INHAL] IRRITATION OF THE RESPIRATORY TRACT AND ACUTE NERVOUS SYSTEM DEPRESSION CHARACTERIZED BY THE FOLLOWING PROGRESSIVE STEPS: HEADACHE, DIZZINESS, STAGGERING GAIT, CONFUSION, [SKIN] IRRITATION WITH SWELLING, REDNESS, AND RASH. PROLONGED/REPEATED IRRITATION, DRYING, AND DEFATTING (CRACKING OF THE SKIN) [EYES] LIQUID, AEROSOLS, OR VAPORS ARE IRRITATING AND MAY CAUSE TEARING, REDNESS, AND SWELLING ACCOMPANIED BY A STINGING SENSATION
Carcinogenity: NTP	NO
Carcinogenity: IARC	NO
Carcinogenity: OSHA	NO
Explanation of Carcinogenity	NONE
Symptoms of Overexposure	SEE ABOVE AND BELOW [INGEST] CAN RESULT IN IRRITATION AND POSSIBLE CORROSIVE ACTION IN THE MOUTH, STOMACH TISSUE AND DIGESTIVE TRACT. VOMITING MAY CAUSE ASPIRATION OF THE SOLVENT, RESULTING IN CHEMICAL PNEUMONITIS. [INHAL] VAPORS ARE IRRITATING TO EYES, NOSE, AND THROAT. INHALATION MAY CAUSE HEADACHES, DIFFICULT BREATHING AND LOSS OF CONSCIOUSNESS
Medical Cond. Aggravated by Exposure	ASTHMA AND ANY OTHER RESPIRATORY DISORDERS. SKIN ALLERGIES, ECZEMA, AND DERMATITIS

Emergency/First Aid Procedures	[INHAL] MOVE TO AN AREA FREE FROM RISK OF FURTHER EXPOSURE. RESTORE BREATHING. OBTAIN MED ATTEN [SKIN] REMOVE
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LAUNDRER BEFORE REUSE. WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER. [EYES] FLUSH WITH CLEAN LUKEWARM WATER (LOW PRESSURE) FOR AT LEAST 15 MIN ACCASIONALLY LIFT EYELIDS. OBTAIN MED ATTEN [INGEST] DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING TO AN UNCONSCIOUS PERSON. OBTAIN MED ATTENTION

SECTION VII - Precautions for Safe Handling and Use

Steps if Material Released/Spilled	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
Waste Disposal Method	WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS. EMPTY CONTAINERS MUST BE HANDLED WITH CARE, DUE TO PRODUCT RESIDUE AND FLAMMABLE VAPOR DO NOT INCINERATE CLOSED CONTAINERS
Handling and Storage Precautions	STORE IN BUILDINGS DESIGNED TO COMPLY WITH OSHA 1910.106. AVOID STORING NEAR HIGH TEMPERATURES, FIRE, OPEN FLAMES, AND SPARK SOURCES. STORE IN TIGHTLY CLOSED CONTAINERS. STORE IN WELL VENTILATED AREAS
Other Precautions	KEEP CONTAINERS TIGHT AND UPRIGHT TO PREVENT LEAKAGE, PREVENT PROLONGED BREATHING OF VAPORS OR SPRAY MISTS. PROLONGED OVEREXPOSURE MAY CAUSE AN ALLERGIC REACTION. AVOID CONTACT WITH SKIN AND EYES. DO NOT TAKE INTERNALLY. DO NOT HANDLE UNTIL THE MANUFACTURINERS SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. WASH HANDS BEFORE EATING, SMOKING, OR USING WASHROOM. SMOKE IN SMOKING AREAS ONLY

SECTION VIII - Control Measures

Respiratory Protection

IF TLV LIMITS CAN BE

Ventilation	LIMITS, AN AIR SUPPLIED RESPIRATOR MAY NOT BE REQUIRED. HOWEVER, OTHER OSHA/NIOSH APPROVED RESPIRATORS AMY BE USED EXHAUST VENTILATION SUFFICIENT TO KEEP THE AIRBORNE CONCENTRATIONS OF SOLVENT VAPORS OR MISTS BELOW THEIR RESPECTIVE TLV
Protective Gloves	COTTON, NEOPRENE, RUBBER, POLYETHYLENE
Eye Protection	CHEM GOGGLES OR FACE SHIELDS
Other Protective Equipment	LONG SLEEVE AND LONG LEG CLOTHING IS RECOMMENDED
Work Hygenic Practices	WASH THOROUGHLY AFTER HANDLING. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE

SECTION IX - Label Data

Protect Eye	YES
Protect Skin	YES
Protect Respiratory	YES
Chronic Indicator	YES
Contact Code	MODERATE
Fire Code	UNKNOWN
Health Code	UNKNOWN
React Code	UNKNOWN
Specific Hazard and Precaution	TARGET ORGANS: SKIN, RESPIRATORY SYSTEM

SECTION X - Transportation Data

Container Quantity	.75
Unit of Measure	GL

SECTION XI - Site Specific/Reporting Information

Volatile Organic Compounds (P/G)	3.9161
Volatile Organic Compounds (G/L)	469.3

SECTION XII - Ingredients/Identity Information

Ingredient #	01
Ingredient Name	METHYL N-AMYL KETONE
CAS Number	110430
Proprietary	NO
Percent	25
OSHA PEL	100 PPM
ACGIH TLV	50 PPM

Ingredient Name	DIPROPYLENE GLYCOL MONOMETHYL ETHER
CAS Number	34590948
Proprietary	NO
Percent	1
OSHA PEL	100 PPM
ACGIH TLV	100 PPM
Recommended Limit	NONE SPECIFIED
Ingredient #	03
Ingredient Name	XYLENE
CAS Number	1330207
Proprietary	NO
Percent	5.85
OSHA PEL	100 PPM
ACGIH TLV	100 PPM
Recommended Limit	NONE SPECIFIED
Ingredient #	04
Ingredient Name	ETHYL BENZENE
CAS Number	100414
Proprietary	NO
Percent	1.22
OSHA PEL	100 PPM
ACGIH TLV	100 PPM
Recommended Limit	NONE SPECIFIED
Ingredient #	05
Ingredient Name	TITANIUM DIOXIDE
CAS Number	13463677
Percent	5
Ingredient #	06
Ingredient Name	COPPER, [29H,31H- PHTHALOCYANINATO(2-)- N29,N30,N31,N32]-, (SP-4- 1)-
CAS Number	147148
Percent	0.02
Ingredient #	07
Ingredient Name	DIETHYLBENZENE
CAS Number	25340174
Percent	0.1
Ingredient #	08
Ingredient Name	2-PYRROLIDINONE, 1-METHYL-
CAS Number	872504
Percent	0.29
Ingredient #	09
Ingredient Name	ETHYL 3-ETHOXYPROPIONATE
CAS Number	763699
Percent	5
Ingredient #	10
Ingredient Name	2,4-PENTANEDIONE
CAS Number	123546
Percent	5
Ingredient #	11
Ingredient Name	STANNANE, DIBUTYLBIS[(1- OXODODECYLOXYL-