

**MATERIAL SAFETY DATA SHEET**  
UNIVERSAL STENCILING & MARKING SYSTEMS  
205 15TH AVENUE SOUTHEAST, ST. PETERSBURG, FL 33701  
PHONE NUMBER: (727) 894-3027

TYPE D SOLVENT  
1 OF 4

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### SECTION I: PRODUCT IDENTIFICATION

**PRODUCT NAME: UNIVERSAL TYPE "D" SOLVENT**

#### HEALTH HAZARD

MINIMAL .....0	HEALTH (3)	DOT CLASSIFICATION: COMBUSTIBLE LIQUID
SLIGHT .....1	FLAMMABILITY (2)	
MODERATE ...2	REACTIVITY (0)	
SERIOUS .....3		
SEVERE .....4		

### SECTION II: HAZARDOUS INGREDIENTS

<u>INGREDIENT NAME:</u>	<u>%</u>	<u>CAS #</u>	<u>EXPOSURE LIMITS</u>
ETHYLENE GLYCOL MONOBUTYL ETHER	>99.00	111-76-2	ACGIH TWA 20 PPM OSHA Table PEL 240mg/m3 50 PPM SKIN

### SECTION III: PHYSICAL DATA

<i>BOILING POINT:</i>	340 DEG. F.
<i>VAPOR DENSITY (air=1)</i>	No Test Data Available
<i>EVAPORATION RATE (Butyl Acetate = 1):</i>	0.06
<i>% VOLATILE/VOL:</i>	99%
<i>WEIGHT/GALLON:</i>	7.5347 LBS/GAL
<i>APPEARANCE &amp; ODOR:</i>	COLORLESS LIQUID WITH MILD ODOR

### SECTION IV: FIRE & EXPLOSION HAZARD DATA

<i>FLASH POINT(Closed Cup) :</i>	149 DEG. F.
<i>EXTINGUISHING MEDIA:</i>	USE CARBON DIOXIDE, DRY CHEMICAL OR FOAM

#### *SPECIAL FIRE FIGHTING PROCEDURES:*

WATER SPRAY MAY SPREAD FIRE. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILDUP AND POSSIBLE AUTO IGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT. IF WATER IS USED, FOG NOZZLES ARE PREFERABLE.

## SECTION V: HEALTH HAZARD DATA

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### *EFFECTS OF OVEREXPOSURE:*

INHALATION OF VAPORS OR MIST MAY IRRITATE NOSE & THROAT. INHALATION OF HIGH CONCENTRATIONS MAY CAUSE HEADACHE, NAUSEA, VOMITING, UNCONSCIOUSNESS AND COMA. SKIN CONTACT MAY CAUSE IRRITATION AND REDDENING. PROLONGED CONTACT MAY CAUSE SWELLING AND SKIN DAMAGE. THIS PRODUCT IS READILY ABSORBED THROUGH THE SKIN. FREQUENT OR WIDESPREAD CONTACT MAY ABSORB HARMFUL AMOUNTS.

## EMERGENCY AND FIRST AID PROCEDURES

### *FUMES:*

REMOVE FROM EXPOSURE. RESTORE BREATHING IF REQUIRED. KEEP WARM & QUIET. TAKE TO A PHYSICIAN FOR DEFINITIVE MEDICAL TREATMENT.

### *SPLASH: (EYES)*

FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. TAKE TO A PHYSICIAN FOR DEFINITIVE MEDICAL TREATMENT.

### *SPLASH: (SKIN)*

WASH WITH SOAP & WATER. REMOVE CONTAMINATED CLOTHING. DESTROY CONTAMINATED SHOES. CONSULT A PHYSICIAN IF IRRITATION OCCURS.

### *INGESTION:*

INDUCE VOMITING. CALL POISON CONTROL CENTER IMMEDIATELY.

## SECTION VI: REACTIVITY DATA

### *STABILITY:*

STABLE

### *INCOMPATIBILITY: (MATERIALS TO AVOID)*

ALKALIS, OXIDIZING MATERIALS, WATER, AND MOIST AIR

### *HAZARDOUS DECOMPOSITION PRODUCTS:*

MAY LIBERATE CARBON MONOXIDE, CARBON DIOXIDE, AND UNIDENTIFIED ORGANIC COMPOUNDS IN BLACK SMOKE

### *CONDITIONS TO AVOID:*

HEAT, SPARKS AND OPEN FLAMES

## SECTION VII: SPILL OR LEAK PROCEDURES

### *STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:*

REMOVE ALL SOURCES OF IGNITION (FLAMES, HOT SURFACES AND ELECTRICAL, STATIC OR FRICTIONAL SPARKS). AVOID BREATHING VAPORS AND CONTACT WITH SKIN. RECOVER AS MUCH FREE LIQUID AS POSSIBLE WITH NON-SPARKING TOOLS. REMOVE REMAINDER WITH INERT ABSORBENT.

### *WASTE DISPOSAL METHOD:*

DISPOSE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS.

## SECTION VIII: SPECIAL PROTECTION INFORMATION

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### *RESPIRATORY PROTECTION:*

USE ONLY IN WELL VENTILATED AREA TO KEEP VAPOR CONCENTRATION BELOW PEL.

### *IF SPRAYED:*

USE NIOSH APPROVED SELF CONTAINED BREATHING APPARATUS IN THE PRESSURE DEMAND MODE OR A SUPPLIED AIR RESPIRATOR.

### *VENTILATION:*

USE ADEQUATE VENTILATION TO PREVENT HIGH CONCENTRATION OF VAPOR.

### *PROTECTIVE GLOVES:*

REQUIRED FOR PROLONGED OR REPEATED CONTACT.

### *EYE PROTECTION:*

IF SPLASH HAZARD EXISTS, USE SAFETY EYE WEAR.

### *OTHER PROTECTIVE EQUIPMENT:*

USE PROTECTIVE GARMENT AS REQUIRED.

## SECTION IX: SPECIAL PRECAUTIONS

### *PRECAUTIONS TO BE TAKEN IN HANDLING & AND STORING:*

KEEP CONTAINERS CLOSED. STORE IN WELL VENTILATED AREA. OBSERVE SAFE HANDLING & STORING METHODS FOR FLAMMABLES.

### *OTHER PRECAUTIONS:*

CONTAINERS SHOULD BE GROUNDED WHEN POURING.

## SECTION X: OTHER REGULATORY INFORMATION

**OSHA Hazard Communication Standard:** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-To-Know Act of 1986) Sections 311 and 312.**

<i>Immediate (Acute) Health Hazard</i>	<i>Yes</i>
<i>Delayed (Chronic) Health Hazard</i>	<i>Yes</i>
<i>Fire Hazard</i>	<i>Yes</i>
<i>Reactive Hazard</i>	<i>No</i>
<i>Sudden Release of Pressure Hazard</i>	<i>No</i>

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-To-Know Act of 1986)**

**Section 313.** This product contains the following substances which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and which are listed in 40 CFR 372.

<u>Component</u>	<u>CAS#</u>	<u>Amount</u>
Ethylene glycol monobutyl ether	111-76-2	>99.0%

**Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Hazardous Substances List and/or Pennsylvania Environmental Substance List**, and are present at levels which require reporting.

<u>Component</u>	<u>CAS#</u>	<u>Amount</u>
Ethylene glycol monobutyl ether	111-76-2	>99.0%

**Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Special Hazardous Substances List:** To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

**California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):** This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

**U.S. Toxic Substances Control Act:** All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

**CEPA - Domestic Substances List (DSL)**

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

**\*\*\* DISCLAIMER \*\*\***

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of our knowledge and belief, accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the users responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.