

# MATERIAL SAFETY DATA SHEET

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## SECTION I: PRODUCT IDENTIFICATION

PRODUCT NAME: UNIVERSAL TYPE "D" NO LEAD GREEN STENCILING AND MARKING INK

HEALTH HAZARD  
 MINIMAL ..... 0  
 SLIGHT ..... 1  
 MODERATE ... 2  
 SERIOUS ..... 3  
 SEVERE ..... 4

HEALTH (2)  
 FLAMMABILITY (3)  
 REACTIVITY (0)

DOT CLASSIFICATION: UN-1210 FLAMMABLE LIQUID

## SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT NAME	%	CAS #	TLV/IPEL
ISOPROPYL ALCOHOL	19.3	67-63-0	400 PPM ACGIH TWA, 500 PPM ACGIH STEL, 400 PPM OSHA TWA, 500 PPM OSHA STEL, 400 PPM CAL OSHA TWA
ETHYLENE GLYCOL MONOBUTYL ETHER	33.4	111-76-2	ACGIH TWA 05 PPM/ OSHA PEL 50 PPM SKIN
N-PROPYL ALCOHOL	16.0	71-23-8	200 PPM ACGIH TWA, 200 PPM OSHA TWA, 200 PPM CAL OSHA TWA, 300 PPM ACGIH STEL, 250 PPM OSHA STEL
TiO <sub>2</sub>	13.3	13463-67-7	15 MG/M <sup>3</sup> OSHA TWA, 10 MG/M <sup>3</sup> ACGIH TWA, 10 MG/M <sup>3</sup> AEL
RESIN	12.7	MIX	15 MG/M <sup>3</sup> OSHA PEL
YELLOW PIGMENT #14	5.3	5567-15-7	10 MG/M <sup>3</sup> ACGIH, 5 MG/M <sup>3</sup> OSHA

### SECTION III: PHYSICAL DATA

BOILING RANGE	Above 198 DEG. F.
VAPOR DENSITY	vs. air - Heavier
EVAPORATION RATE	vs. Butyl Acetate - Slower
% VOLATILE VOLUME BY WEIGHT	65% - 66% +/-1%
% SOLIDS	35% - 34% +/-1%
APPEARANCE & ODOR	GREEN OPAQUE LIQUID, HYDROCARBON ODOR

### SECTION IV: FIRE & EXPLOSION HAZARD DATA

FLASH POINT	APPROX. 76 DEG. F. ASTM D-3828-05
EXTINGUISHING MEDIA	CARBON DIOXIDE, DRY CHEMICAL OR FOAM RECOMMENDED
SPECIAL FIRE FIGHTING PROCEDURES	USE OF SELF-CONTAINED BREATHING APPARATUS & FULL PROTECTIVE EQUIPMENT RECOMMENDED.
UNUSUAL FIRE & EXPLOSION HAZARDS	THIS PRODUCT IS FLAMMABLE AND WILL ENHANCE BURNING. BURNING OF THIS PRODUCT WILL PRODUCE TOXIC VAPORS/FUMES. WHEN HEATED IN SEALED CONTAINERS, THEY WILL LIKELY BURST UNLESS PRESSURE RELIEF VALVES ARE USED.

### SECTION V: HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY:	
INHALATION	IF USE CONDITIONS GENERATE VAPOR IN AREAS WHERE ADEQUATE VENTILATION IS NOT AVAILABLE, NIOSH-APPROVED VAPOR RESPIRATOR SHOULD BE WORN.
SKIN CONTACT	SKIN CONTACT WITH AQUEOUS INK SHOULD BE PREVENTED THROUGH THE USE OF PROTECTIVE CLOTHING. BRIEF CONTACT MAY CAUSE SLIGHT IRRITATION.
SKIN ABSORPTION	PROLONGED SKIN CONTACT TO ANIMALS WHICH ARE LESS SENSITIVE TO HEMOLYSIS, AS ARE HUMANS, DID NOT RESULT IN ABSORPTION IN HARMFUL AMOUNTS.
EYE CONTACT	MAY PRODUCE SEVERE IRRITATION AND/OR REDDENING. MAY CAUSE MODERATE CORNEAL INJURY.
INGESTION	ALL FOOD SHOULD BE KEPT IN SEPARATE AREAS FROM THOSE WHERE THE INK IS STORED OR USED. EATING, DRINKING OR SMOKING SHOULD BE PROHIBITED FROM THESE AREAS. INGESTION CAN LEAD TO IRRITATION OF DIGESTIVE TRACT AND COULD EVEN BE FATAL IN EXTREME CASES.

### FIRST AID PROCEDURES

EYES	IMMEDIATELY FLUSH EYES WITH WATER; REMOVE CONTACT LENSES IF PRESENT AFTER 5 MINUTES, THEN CONTINUE FLUSHING EYES FOR AT LEAST 15 MINUTES. OBTAIN MEDICAL ATTENTION WITHOUT DELAY, PREFERABLY FROM AN OPHTHALMOLOGIST.
SKIN	WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. IF SYMPTOMS OCCUR, CONSULT A PHYSICIAN.
INHALATION	REMOVE TO CLEAN FRESH AIR AND TREAT SYMPTOMATICALLY.
INGESTION	SEEK IMMEDIATE MEDICAL ATTENTION. DO NOT INDUCE VOMITING.
TOXICITY: INFORMATION	ANIMALS STUDIES HAVE SHOWN SOME LIVER AND REPRODUCTIVE ORGAN DAMAGES WITH LONG TERM EXPOSURE. AS TO HOW THIS EFFECTS THE INDUSTRIAL USE OF THESE INGREDIENTS IS UNCLEAR.
EFFECTS OF OVER EXPOSURE	THIS MATERIAL MAY BE HARMFUL IF SWALLOWED.

## SECTION VI: REACTIVITY DATA

STABILITY	STABLE
CONDITIONS TO AVOID	EXTREME HEAT
INCOMPATIBILITY	ALKALI AND STRONG OXIDIZING AGENTS
HAZARDOUS DECOMPOSITION PRODUCTS	WHEN INVOLVED IN A FIRE, BURNING ORGANIC PIGMENTS MAY EVOLVE NOXIOUS FUMES WHICH MAY INCLUDE CARBON MONOXIDE, NITROUS OXIDES OR OTHER TOXIC COMPOUNDS DEPENDING ON THE PIGMENT TYPE. HOWEVER, ALL OF THE WATER MUST BE DRIVEN OFF FIRST FOR THIS TO OCCUR.

## SECTION VII: SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED	ALL PERSONNEL INVOLVED WITH SPILL CLEANUP SHOULD FOLLOW GOOD INDUSTRIAL HYGIENE. SMALL SPILLS MAY BE HANDLED ROUTINELY. WEAR PROTECTIVE CLOTHING AND EYE PROTECTION TO PREVENT SKIN AND EYE CONTACT. WIPE UP. USE SOAP AND WATER AS NECESSARY.
WASTE DISPOSAL PROCEDURES	DISPOSE SHOULD BE MADE IN ACCORDANCE WITH ALL APPLICABLE STATE, LOCAL, AND FEDERAL REGULATIONS.

## SECTION VIII: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION	NIOSH-APPROVED VAPOR RESPIRATOR IS RECOMMENDED WITH HANDLING IN AREAS WHERE ADEQUATE VENTILATION IS NOT AVAILABLE.
VENTILATION	RECOMMENDED.
PROTECTIVE GLOVES AND EYE PROTECTION	RECOMMENDED.

OTHER	IMPERVIOUS CLOTHING SHOULD BE WORN WHEN GROSS CONTACT IS LIKELY, SUCH AS CLEANING UP A SPILL.
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## SECTION IX: SPECIAL PRECAUTIONS

PRECAUTIONARY INFORMATION	A MODERATELY COOL, DRY, WELL VENTILATED AREA IS CONSIDERED ADEQUATE FOR THE STORAGE OF THIS INK. DIRECT SOURCES OF HEAT SHOULD BE AVOIDED AND OPEN CONTAINERS MUST NOT BE ALLOWED TO STAND FOR LONG PERIODS OF TIME.
OTHER	THIS INK HAS NOT BEEN EVALUATED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE (USDA) FOR USE IN PACKAGING MATERIAL IN DIRECT CONTACT WITH MEAT OR POULTRY FOOD PRODUCTS PREPARED UNDER FEDERAL INSPECTION.
DOT HAZARD CLASSIFICATION	FLAMMABLE LIQUID UN1210
DOT LABELS REQUIRED	FLAMMABLE LIQUID

## SECTION X: REGULATORY INFORMATION

### OSHA Hazard Communication Standard

This product contains 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) 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	33.4%

**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	33.4%

**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.

\*\*\* 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.