

MATERIAL SAFETY DATA SHEET

UNIVERSAL STENCILING & MARKING SYSTEMS
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SECTION I: PRODUCT IDENTIFICATION

PRODUCT NAME: UNIVERSAL TYPE "D" BLACK 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
ETHYLENE GLYCOL MONOBUTYL ETHER	40.00	111-76-2	TLV 25.00 PPM/IPEL 50 PPM
ISOPROPYL ALCOHOL	5.0	67-63-0	TLV 400.0 PPM/IPEL 500.0 PPM
N-PROPAL ALCOHOL	16.5	71-23-8	TLV 200.0 PPM/IPEL 250.0 PPM
POLYAMIDE RESIN	15.00	679-893-04	UNKNOWN
N-PROPYL ACETATE	9.5	109-60-4	TLV 200.0 PPM/IPEL 250.0 PPM

SECTION III: PHYSICAL DATA

BOILING POINT	198 DEG. F.
VAPOR DENSITY	HEAVIER THAN AIR
EVAPORATION RATE	SLOWER THAN ETHER
% VOLATILE/VOL	71%
WEIGHT/GALLON	APPROX: 9.0 LBS/GAL
APPEARANCE & ODOR	BLACK LIQUID WITH ALCOHOL ODOR

SECTION IV: FIRE & EXPLOSION HAZARD DATA

FLASH POINT	APPROX. 76 DEG. F. ASTM D-3828-05
EXTINGUISHING MEDIA	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

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.
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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

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 EYEWEAR.
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

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

GLYCOL ETHERS: 40.00% BY WT.

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) CONSIDERED BY THE STATE OF CALIFORNIA'S SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 (PROPOSITION 65) AS CAUSING CANCER OR REPRODUCTIVE TOXICITY AND FOR WHICH WARNINGS ARE NOW REQUIRED:

ETHYLENE OXIDE: CAS 107-21-1 : TRACE AMOUNTS % BY WT.

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