

# MATERIAL SAFETY DATA SHEET

27 JULY 2005

MSDS ID# GLYCOL ETHER BASED PERMANENT MARKER INK

PRODUCT NAME: GLYCOL ETHER BASED PERMANENT MARKER INK

PART #: 7-61 SERIES

SECTION I	SUPPLIER INFORMATION
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COMMON NAME: GLYCOL ETHER BASED PERMANENT MARKER INK  
CHEMICAL NAME: N/A  
FORMULA/CAS: N/A

SUPPLIER: NATIONAL INK LLC  
ADDRESS: 10870 HARTLEY ROAD, SUITE A  
CITY, STATE, ZIP: SANTEE, CA. 92071

\*\*\*\*\*EMERGENCY PHONE:\*\*\*\*\*  
US: (800)255-3924 INT'L: (813)248-0585

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DATE ISSUED: 02-02-99 DATE ENTERED: 02-02-99  
DATE REVISED: 07-27-05

SECTION II	INGREDIENT INFORMATION
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PROPYLENE GLYCOL MONOMETHYL ETHER CAS#: 107-98-2  
PEL-OSHA: NOT ESTABLISHED TLV-ACGIH: NOT ESTABLISHED  
ETHYLENE GLYCOL MONOPROPYL ETHER CAS#: 2807-30-9  
PEL-OSHA: NOT ESTABLISHED TLV-ACGIH: NOT ESTABLISHED

\*\*\*\*\*INGREDIENT HAZARD STATEMENT\*\*\*\*\*  
WARNING: THIS PRODUCT IS IDENTIFIED AS A HAZARDOUS CHEMICAL UNDER THE OSHA HAZARDOUS COMMUNICATIONS STANDARD, (29 CFR 1910.1200) DUE TO THE PRESENCE OF INGREDIENT (S) CITED ABOVE.

THIS PRODUCT IS REPORTABLE UNDER THE S.A.R.A. ACT OF 1986, TITLE III, SEC. 313 (40 CFR PART 372) DUE TO THE PRESENCE OF INGREDIENT(S) CITED ABOVE.

THIS PRODUCT DOES NOT CONTAIN ANY KNOWN CHEMICAL REPORTABLE UNDER THE CALIFORNIA SAFE DRINKING WATER & TOXIC ENFORCEMENT ACT OF 1986. (CA PROP 65).

ALL INGREDIENTS MEET TSCA REQUIREMENTS

SECTION III	PHYSICAL/CHEMICAL CHARACTERISTICS
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BOILING POINT : 248°F  
SPECIFIC GRAVITY (H2O = 1) : .900 - .945  
MELTING POINT : NOT ESTABLISHED  
VAPOR PRESSURE (mm HG) : 12.5 AT 25°C  
VAPOR DENSITY (AIR = 1) : APPROX. 3.0  
EVAPORATION RATE (BUTYL ACETATE=1) : LESS THAN 1  
SOLUBILITY/WATER : PARTIAL

\*\*\*\*\*APPEARANCE AND ODOR\*\*\*\*\*

LIQUID WITH SLIGHT ETHEREAL ODOR.

BLACK 7-61-A1  
RED 7-61-F2  
BLUE 7-71-C2  
GREEN 7-61-H1

\*\*\*\*\*ADDITIONAL INFORMATION\*\*\*\*\*

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT : APPROX. 90°F (32°C) TOC  
AUTO IGNITION : NOT ESTABLISHED  
LEL : 14  
UEL : 1.6

\*\*\*\*\*NFPA HAZARD CLASSIFICATION\*\*\*\*\*

FLAMMABLE: 3 HEALTH: 1 REACTIVITY: 0 SPECIAL: 0

\*\*\*\*\*EXTINGUISHING MEDIA\*\*\*\*\*

DRY CHEMICAL, ALCOHOL FOAM, CO2

\*\*\*\*\*SPECIAL FIRE FIGHTING PROCEDURES\*\*\*\*\*

WARNING: FLAMMABLE  
FIRE FIGHTERS SHOULD WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. COOL FIRE EXPOSED CONTAINERS WITH WATER.

\*\*\*\*\*UNUSUAL FIRE FIGHTING PROCEDURES\*\*\*\*\*

CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE.

SECTION V REACTIVITY DATA

STABILITY : PRODUCT IS STABLE

AVOID : NONE

\*\*\*\*\*INCOMPATIBILITY (MATERIALS TO AVOID)\*\*\*\*\*

STRONG OXIDIZING AGENTS.

\*\*\*\*\*HAZARDOUS DECOMPOSITION OR BY-PRODUCTS\*\*\*\*\*

BURNING MAY PRODUCE CARBON MONOXIDE AND/OR OTHER UNIDENTIFIED POTENTIALLY TOXIC FUMES.

POLYMERIZATION: POLYMERIZATION WILL NOT OCCUR

AVOID : NONE

SECTION VI HEALTH HAZARD DATA

\*\*\*\*\*ROUTES OF ENTRY\*\*\*\*\*

INHALATION :YES  
SKIN :YES  
INGESTION :YES

EYES :YES

\*\*\*\*\*ADDITIONAL INFORMATION\*\*\*\*\*

CONTACT PERSON : BEN FABIAN  
R&D MANAGER

\*\*\*\*\*CARCINOGENICITY\*\*\*\*\*

NTP: NO IARC: NO OSHA: NO

\*\*\*\*\*ACUTE AND CHRONIC HEALTH HAZARDS\*\*\*\*\*

IF SWALLOWED MAY CAUSE NAUSEA, VOMITING, ABDOMINAL DISCOMFORT OR  
DIARRHEA.

\*\*\*\*\*SIGNS AND SYMPTOMS OF EXPOSURE\*\*\*\*\*

INK MAY CAUSE EYE IRRITATION. INK MAY CAUSE SKIN IRRITATION OR  
DERMATITIS. PROLONGED CONTACT WITH THE SKIN MAY CAUSE DEFATTING  
AND DRYING.

\*\*\*\*\*MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE\*\*\*\*\*

SKIN CONTACT MAY AGGREGATE EXISTING DERMATITIS. BREATHING VAPOR  
MAY AGGREGATE ASTHMA.

\*\*\*\*\*EMERGENCY AND FIRST AID PROCEDURES\*\*\*\*\*

INHALATION: REMOVE TO FRESH AIR. SEEK MEDICAL ATTENTION AS  
NEEDED.

EYES: IMMEDIATELY FLUSH WITH WATER CONTINUOUSLY FOR AT  
LEAST 15 MINUTES. SEEK MEDICAL ATTENTION AS  
NEEDED.

SKIN: WASH WITH SOAP AND WATER. SEEK MEDICAL ATTENTION  
AS NEEDED FOR HYPERSENSITIVITY.

INGESTION: DO NOT INDUCE VOMITING. CALL PHYSICIAN AND SEEK  
MEDICAL ATTENTION PROMPTLY. TREAT FOR THE  
PRESENCE OF INGREDIENT(S) CITED IN SECTION II.

SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE
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DOT CLASSIFICATION: FLAMMABLE LIQUID

\*\*\*\*\*STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED\*\*\*\*  
SOAK UP SPILL WITH INERT MATERIAL SUCH AS; VERMICULITE, DRY CLAY  
ABSORBENT OR CHEMSORB. WIPE UP SMALL SPILLS WITH A CLOTH OR TOWEL.  
PREVENT RUN-OFF FROM ENTERING DRAINS, SEWERS OR RIVERS.

\*\*\*\*\*WASTE DISPOSAL\*\*\*\*\*

WASTE DISPOSAL SHOULD BE IN ACCORDANCE WITH EXISTING FEDERAL, STATE  
AND LOCAL ENVIRONMENTAL REGULATIONS

\*\*\*\*\*PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE\*\*\*\*\*

STORE IN COOL, DRY AREA. AVOID FREEZING, SPARKS AND OPEN FLAMES.  
KEEP CONTAINER CLOSED WHEN NOT IN USE.

\*\*\*\*\*OTHER PRECAUTIONS\*\*\*\*\*

WEAR SAFETY GOGGLES AT ALL TIMES WHEN USING THIS LIQUID TO AVOID THE POSSIBILITY OF SPLASHING IN THE EYES.

SECTION VIII	CONTROL MEASURES
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\*\*\*\*\*RESPIRATORY PROTECTION\*\*\*\*\*  
AS NEEDED NIOSH APPROVED RESPIRATOR FOR ORGANIC DUSTS AND MISTS.

\*\*\*\*\*VENTILATION\*\*\*\*\*  
LOCAL EXHAUST : AS NEEDED  
SPECIAL EXHAUST : NONE  
MECHANICAL EXHAUST : NONE

\*\*\*\*\*OTHER PROTECTION\*\*\*\*\*  
GLOVES : CHEMICAL RESISTANT  
EYE PROTECTION : CHEMICAL SAFETY GOGGLES

\*\*\*\*\*CLOTHING\*\*\*\*\*  
IMPERMEABLE APRON TO PREVENT THE STAINING OF CLOTHES.

\*\*\*\*\*WORK/HYGIENE PRACTICES\*\*\*\*\*  
ALWAYS WASH THOROUGHLY AFTER HANDLING PRODUCT AND BEFORE EATING,  
DRINKING, SMOKING OR USING THE RESTROOM.

THIS IS THE END OF THE MSDS ID #  
GLYCOL ETHER BASED PERMANENT MARKER INK 7-61 SERIES