

MATERIAL SAFETY DATA SHEET

03 AUG 2005

MSDS ID# ALCOHOL BASED PERMANENT MARKER INK

PRODUCT NAME: ALCOHOL BASED PERMANENT MARKER INK

PART #: 46-33 SERIES, 46-34 SERIES and 78-55-SERIES

SECTION I	SUPPLIER INFORMATION
-----------	----------------------

COMMON NAME: ALCOHOL 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

DATE ISSUED: 10-01-04

DATE REVISED: 08-03-05

SECTION II	INGREDIENT INFORMATION
------------	------------------------

INGREDIENT	CAS #	PERCENT BY WEIGHT
------------	-------	-------------------

N-PROPYL ALCOHOL	CAS#: 71-23-8	%: 70 - 80
------------------	---------------	------------

PEL-OSHA: 200PPM	TLV-ACGIH: 200PPM
------------------	-------------------

COLORANT	CAS#: 11099-03-9	%: 10 - 20
----------	------------------	------------

PEL-OSHA: NOT ESTABLISHED	TLV-ACGIH: NOT ESTABLISHED
---------------------------	----------------------------

COLORANT	CAS#: 111559-76-3	%: 10 - 15
----------	-------------------	------------

PEL-OSHA: NOT ESTABLISHED	TLV-ACGIH: NOT ESTABLISHED
---------------------------	----------------------------

RESIN	CAS#: 65997-05-9	%: 5 - 10
-------	------------------	-----------

PEL-OSHA: NOT ESTABLISHED	TLV-ACGIH: NOT ESTABLISHED
---------------------------	----------------------------

M-PYROL	CAS#: 872-50-4	%: 5 -10
---------	----------------	----------

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 N-PROPANOL CITED ABOVE.

THIS PRODUCT IS NOT REPORTABLE UNDER THE S.A.R.A. ACT OF 1986, TITLE III, SEC. 313 (40 CFR PART 372).

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
-------------	-----------------------------------

BOILING POINT : 207°F
SPECIFIC GRAVITY (H2O = 1) : .840
MELTING POINT : NOT ESTABLISHED
VAPOR PRESSURE (mm HG) : APPROX. 15 @ 68°F
VAPOR DENSITY (AIR = 1) : APPROX. 2.10
EVAPORATION RATE (BUTYL ACETATE=1) : APPROX. 1.3
SOLUBILITY/WATER : COMPLETE

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

LIQUID WITH SLIGHT ALCOHOLIC ODOR

BLACK	46-33-A1	MAGENTA	46-34-A1	78-55-A	BLACK
RED	46-33-B1	BABY BLUE	46-34-B1	78-55-B	RED
YELLOW	46-33-E1	TURQUOISE	46-34-C1	78-55-C	BLUE
BLUE	46-33-C1	VIOLET	46-34-D1	78-55-D	GREEN
GREEN	46-33-D3	PURPLE	46-34-H1		
ORANGE	46-33-F1				
BLACK	46-33-A				

*****ADDITIONAL INFORMATION*****

SECTION IV	FIRE AND EXPLOSION HAZARD DATA
------------	--------------------------------

FLASH POINT : APPROX. 74°F (23°C) TCC
AUTO IGNITION : APPROX. 824°F
LEL : 2.2%
UEL : 14%

*****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*****
COMBUSTION 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 : DR. BEN FABIAN
TECHNICAL DIRECTOR

*****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
-------------	---------------------------------------

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
--------------	------------------

*****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 #
ALCOHOL BASED PERMANENT MARKER INK