

MATERIAL SAFETY DATA SHEET

26 JULY 2006

MSDS ID# 72-27 IPMOP MSDS

PRODUCT NAME: FLUOROGRAPHICS OPAQUE INK

PART #: IPMOP-BLK72-27-A, IPMOP-RED72-27-B

SECTION I SUPPLIER INFORMATION

COMMON NAME: FLUOROGRAPHICS OPAQUE 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: 02-23-2004 DATE ENTERED: 07-26-2006

SECTION II INGREDIENT INFORMATION

PROPYLENE GLYCOL MONOMETHYL ETHER
CAS# 107-98-2 WEIGHT: 30-40%
OSHA PEL: NOT ESTABLISHED TLV-ACGIH: NOT ESTABLISHED
ETHANOL CAS# 64-17-5 WEIGHT: 30-40%
PEL-OSHA : 1000 PPM TLV-ACGIH: 1000 PPM
METHANOL CAS# 67-56-1 WEIGHT: 1-2%
OSHA PEL: 200 PPM TLV-ACGIH: 200 PPM

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 THE 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 THE 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

BOILING POINT : 170°F
SPECIFIC GRAVITY (H2O = 1) : .828
MELTING POINT : NOT ESTABLISHED
VAPOR PRESSURE (mm HG) : 44mm @ 60°F
VAPOR DENSITY (AIR = 1) : APPROX. 1.40

EVAPORATION RATE (BUTYL ACETATE=1) : 1.5
SOLUBILITY/WATER : PARTIAL

*****APPEARANCE AND ODOR*****
BLACK 72-27-A
RED 72-27-B

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

SECTION IV	FIRE AND EXPLOSION HAZARD DATA
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FLASH POINT : APPROX. 55°F (13°C) TCC
AUTO IGNITION : APPROX. 795°F
LEL : 3.3%
UEL : 19%

*****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
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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
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*****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*****
MAY CAUSE DIZZINESS, HEADACHE OR NAUSEA. INK IS IRRITATING TO EYES. IT MAY CAUSE PAIN, TEARING OR INFLAMMATION. INK MAY BE IRRITATING TO THE SKIN.

*****SIGNS AND SYMPTOMS OF EXPOSURE*****
INK MAY CAUSE EYE IRRITATION. INK MAY CAUSE SKIN IRRITATION OR DERMATITIS. MAY BE IRRITATING TO THE NOSE, THROAT AND RESPIRATORY TRACT. INGESTION OF THIS PRODUCT MAY RESULT IN VOMITING.

*****MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE*****
PERSONS ON DISULFIRAM (ANTA BUSE @ THERAPY) SHOULD BE AWARE THAT ETHYL ALCOHOL IN THIS PRODUCT IS HAZARDOUS TO THEM AS IS ALCOHOL FROM ANY SOURCE. DISULFIRAM REACTIONS INCLUDING VOMITING, HEADACHE AND COLLAPSE MAY OCCUR AFTER INGESTION OF SMALL AMOUNT OF THIS PRODUCT.

*****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*****
NONE REQUIRED

*****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 # 72-27 IPMOP MSDS