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Material Safety Data Sheet
WATER BASED INK

Date 6/3/97 Revision A

Section 1 - Product and Company Identification

General Use: Ink for writing and marking instruments

Manufacturer:

LIQUI-MARK
130 SWALM STREET
WESTBURY, NEW YORK 11590-4820
PHONE (information & emergency) 516-333-5100
FAX 516-333-5396
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Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt or % vol
ETHYLENE GLYCOL	107-21-1	< 30
METHANAMIDE = FORMAMIDE	75-12-7	< 25
ACID BLACK #2		< 10
ACID YELLOW # 23	1934-21-0	
ACID BLUE #9	3844-45-9	
ACID RED #1	3734-67-6	
ACID RED #87	17372-87-1	
ACID BLUE #1	129-17-9	
ACID VIOLET #17	4129-84-4	
ACID RED #73	17372-87-1	
NON-HAZARDOUS INGREDIENTS		50-60

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Ingredient	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
ETHYLENE GLYCOL		50 PPM CEILING	
METHANAMIDE = FORMAMIDE	20PPM	10 PPM	
ACID BLACK #2	NA	N.A.	ANIMAL TOXICITY= 5000MG/KG
ACID YELLOW # 23		N.E.	
ACID BLUE #9		N.E.	
ACID RED #1	N.E.	N.A.	ORAL RAT LD50= 449 MG/KG
ACID RED #87	NON-HAZARDOUS		RTECTS, 1985
ACID BLUE #1	N.E.	N.E.	ORAL RATLD50= 10,000MG/KG
ACID VIOLET #17	N.E.	N.E.	AS PER 29CFR PART 1910-120
ACID RED #73	NON-HAZARDOUS	N.E.	

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Section 3 - Physical and Chemical Properties

Appearance and Odor: ODERLESS LIQUID
 Vapor Pressure:
 Vapor Density (Air=1) : 1.50
 Surface Tension: 31-35 DYNE/CM
 Specific Gravity (H₂O=1, at 4 °C) : 1.050-1.085

Water Solubility: COMPLETE
 Boiling Point: 105-110 DEG C
 Freezing/Melting Point:
 Viscosity:
 Evaporation Rate: 1.0

Section 4 - Fire-Fighting Measures

Flash Point: 500 DEG F
 Flash Point Method: COC
 Autoignition Temperature:
 LEL:
 UEL:

Flammability Classification: NA
 Extinguishing Media: USE WATER, CARBON DIOXIDE, FOAM, OR DRY POWER
 Unusual Fire or Explosion Hazards: NONE
 Fire-Fighting Instructions: NA IN THE AMOUNT OF DYE USED IN THE FORMULATION

Section 5 - Stability and Reactivity

Stability: STABLE
 Polymerization: WILL NOT OCCUR
 Chemical Incompatibilities: N. A.
 Conditions to Avoid: NONE
 Hazardous Decomposition Products:

Section 6 - Health Hazard Information**Potential Health Effects**

Primary Entry Routes: NOT-HAZARDOUS

Target Organs:

Acute Effects

Inhalation: :

Eye: :

Skin: :

Ingestion:

Carcinogenicity:

Medical Conditions Aggravated by Long-Term Exposure: NO EVIDENCE OF ADVERSE HEALTH EFFECTS FROM AVAILABLE INFORMATION

Chronic Effects:

Emergency and First Aid Procedures

Inhalation: REMOVE TO FRESH AIR. GET MEDICAL ATTENTION

Eye Contact: FLUSH EYES WITH LARGE AMOUNTS OF WATER. CONTACT A PHYSICIAN

Skin Contact: USE SOAP AND WATER

Ingestion: GIVE TWO GLASSES OF WATER AND INDUCE VOMITING. CALL A PHYSICIAN

After first aid, get appropriate in-plant, paramedic, or community medical support.

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Section 7 - Spill, Leak, and Disposal Procedures

Spill/Leak Procedures: RINSE SPILLED MATERIAL WITH WATER

Containment:

Cleanup: COLLECT USING ABSORBENT MATERIAL

Regulatory Requirements:

Disposal:

Disposal Regulatory Requirements: ALL MATERIAL SHOULD BE PACKED, LABELED AND DISPOSED IN CONFORMANCE WITH APPLICABLE, LOCAL STATE AND FEDERAL REGULATIONS.

Container Cleaning and Disposal:

Ecological Information:

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: LOCAL EXHAUST

Administrative Controls:

Respiratory Protection: N. A.

Protective Clothing/Equipment:

Safety Stations:

Contaminated Equipment: Comments:

Section 9 - Special Precautions and Comments

Handling Precautions: HANDLE WITH REASONABLE CARE

Storage Requirements:

Prepared By: R. DINGLAS

Revision Notes: