

1749

Material Safety Data Sheet 9710660

WATER BASED INK

9712768-69

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

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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		
ACID BLUE #9	1934-21-0	
ACID RED #1	3844-45-9	
ACID RED #87	3734-67-6	
ACID BLUE #1	17372-87-1	
ACID VIOLET #17	129-17-9	
ACID RED #73	4129-84-4	
NON-HAZARDOUS INGREDIENTS	17372-87-1	50-60

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 RAT LD50= 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 (H<sub>2</sub>O=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:

Vendor # 054009