

LM# 1120X SERIES

**Material Safety Data Sheet**  
**WATER BASED INK**

Date 6/3/97 Revision

**Section 1 - Product and Company Identification**

General Use: Ink for writing and marking instruments

Manufacturer:

**LIQUI-MARK**  
130 SWALM STREET  
WESTBURY, NEW YORK 11591-4820  
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		
METHANAMIDE = FORMAMIDE	107-21-1	< 30
ACID BLACK #2	75-12-7	< 25
ACID YELLOW # 23		< 10
ACID BLUE #9	1934-21-0	
ACID RED #1	3844-45-9	
ACID RED #37	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
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 #37	NON-HAZARDOUS		RETRACTS, 1985
ACID BLUE #1	N.E.	N.E.	ORAL RAT LD50= 10,000 MG/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: