

077236,237,235

# Material Safety Data Sheet

## WATER BASED INK

Date 10/16/03 Revision B

### Section 1 - Product and Company Identification

**General Use:** Ink for writing and marking instruments

**Manufacturer:**

**LIQUI-MARK**  
**30 DAVIDS DRIVE**  
**HAUPPAUGE, NY 11788**  
**PHONE (information & emergency) 631-236-4333**  
**FAX 631-236-4334**  
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### Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt or % vol
ETHYLENE GLYCOL	107-21-1	< 30
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	
BASIC RED # 1		
ROCALL 50% USP	989-38-8	
NON-HAZARDOUS INGREDIENTS		50-60

Ingredient	OSHA	ACGIH	OTHER LIMITS RECOMMENDED
	PEL	TLV	
ETHYLENE GLYCOL		50 PPM CEILING	
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.	
BASIC RED # 1			
ROCAL 50% USP			

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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:**