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# Material Safety Data Sheet

## P.O.I. JUMBO INK

Date 10/1/99 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
ETHYL LACTATE	9764.3	22-58
POLYPALE RESIN	NONE	< 6.0
SOLVENT RED 160	70851.4.1	< 3.0
SOLVENT YELLOW 162	489707.5046	< 4.5
DENATURED ETHANOL	NA	35-58
SOLVENT BLUE 7	2390-60-5	< 5.0
SOLVENT RED 208	N.E.	< 3.0
SOLVENT BLUE 38	1328.51.4	3.0
SOLVENT BLUE 70	9477.77.7	< 5.0
SOLVENT RED 68	NJKA#:18881400.5 220P	16.0
POLYMERIC BOND COLORANT		> 4.0
SOLVENT YELLOW 173	68239-62-3	2.0
METAL COMPLEXED AZO DYE MIXTURE	NONE	22.5
BLEND OF DYE SOLVENT YELLOW 161 AND SOLVENT RED 49		10

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Ingredient	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
ETHYL LACTATE			ORAL RAT LD50=2500MG/KG/ DERMAL LD50=5G/KG
POLYPALE RESIN	15PPM	N.E.	ORAL RAT LD50=>5G/KG
SOLVENT RED 160			
SOLVENT YELLOW 162			
DENATURED ETHANOL			
SOLVENT BLUE 7			
SOLVENT RED 208			ORAL RAT LD50=13.3G/KG:DERMAL LD50=20MG/KG

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SOLVENT BLUE 38			ORAL RAT LD50- >77MG/KG
SOLVENT BLUE 70			ORAL RAT LD50- >10 G/KG
SOLVENT RED 68			ORAL RAT LD50- > 2G/KG
POLYMERIC BOND COLORANT		N.E.	ORAL RAT LD50= 27.75 ML/KG
SOLVENT YELLOW 173			
METAL COMPLEXED AZO DYE MIXTURE		N.E.	
BLEND OF DYE SOLVENT YELLOW 161 AND SOLVENT RED 49		N.E.	

**Section 3 - Physical and Chemical Properties**

Appearance and Odor: LIQUID--VERY SLIGHT  
ALCOHOL LIKE  
Vapor Pressure: 5 MM HG AT 20 DEG C  
Vapor Density (Air=1): 3.12  
Surface Tension: N.D.  
Specific Gravity (H<sub>2</sub>O=1, at 4 °C): 0.850-0.920

Water Solubility: INFINITELY  
Boiling Point: 248 DEG C  
Freezing/Melting Point: ND  
Viscosity: ND  
Evaporation Rate: SLOWER THAN ETHER

**Section 4 - Fire-Fighting Measures**

Flash Point: 500 DEG F  
Flash Point Method: COC  
Autoignition Temperature NOT DETERMINED:  
LEL: N.A.  
UEL: N.A.  
Flammability Classification: N.A.  
Extinguishing Media: WATER FOG, ALCOHOL RESISTANT FOAM, CO<sub>2</sub>, DRY CHEMICAL  
Unusual Fire or Explosion Hazards: KEEP VAPORS AWAY FROM POSSIBLE IGNITED SOURCES  
Fire-Fighting Instructions: WEAR POSITIVE-PRESSURE. SELF CONTAINED BREATHING APPARATUS

**Section 5 - Stability and Reactivity**

Stability: STABLE  
Polymerization: WILL NOT OCCUR  
Chemical Incompatibilities: OXIDIZING MATERIAL  
Conditions to Avoid: STABLE UNDER NORMAL STORAGE CONDITIONS  
Hazardous Decomposition Products: NONE KNOWN

**Section 6 - Health Hazard Information**

**Potential Health Effects**

**Primary Entry Routes:** NOT HAZARDOUS

**Target Organs:**

**Acute Effects > 5.0 G/KG**

**Inhalation:**

**Eye:**

**Skin:**

**Ingestion:**

**Carcinogenicity:**

**Medical Conditions Aggravated by Long-Term Exposure:** MEDICAMENTS TAKEN CAN INCREASE THE NARCOTIC EFFECT OF ETHANOL

**Chronic Effects:** N.D.

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**Emergency and First Aid Procedures**

**Inhalation:** THE ODOR IS OBJECTIONABLE AT 1000PPM ; HIGHER LEVELS PRODUCE EYE, NOSE AND THROAT IRRITATION AND INTOLERABLE AT 1000PPM. REMOVE TO FRESH AIR

**Eye Contact:** MAY CAUSE SLIGHT TRANSIENT (TEMPORARY) EYE IRRITATION - IRRIGATE IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ADVICE.

**Skin Contact:** PROLONGED OR REPEATED EXPOSURE MAY CAUSE SKIN IRRITATION . WASH OFF IN FLOWING WATER OR SHOWER.

**Ingestion:** AMOUNT INGESTED INCIDENTAL TO INDUSTRY. HANDLING NOT LIKELY TO CAUSE INJURY. INDUCE VOMITING IF LARGE AMOUNTS ARE INGESTED AND CONSULT MEDICAL PERSONNEL

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

**Section 7 - Spill, Leak, and Disposal Procedures**

**Spill /Leak Procedures:** SOAK UP WITH SUITABLE NON-REACTIVE ABSORBANT MATERIAL. COLLECT WITH RUBBER SHOVEL INTO CONTAINER FOR DISPOSAL

**Containment:**

**Cleanup:**

**Regulatory Requirements:** BURN IN AN APPROVED INCINERATOR IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS

**Disposal:**

**Disposal Regulatory Requirements:**

**Container Cleaning and Disposal:**

**Ecological Information:**

**Section 8 - Exposure Controls / Personal Protection**

**Engineering Controls:**

Ventilation: LOCAL EXHAUST

**Administrative Controls:**

Respiratory Protection: USE DUST/MIST RESPIRATOR

Protective Clothing/Equipment: USE RUBBER GLOVES AND GOGGLES

**Safety Stations:**

Contaminated Equipment: Comments:

**Section 9 - Special Precautions and Comments**

Handling Precautions: HANDLE WITH REASONABLE CARE, AVOID BREATHING APPARATUS

Storage Requirements: PAY ATTENTION TO THE USUAL RULES FOR HANDLING CHEMICALS

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Revision Notes: