

Material Safety Data Sheet POCKET MARKER PERMANENT 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

Section 2 - Composition / Information on Ingredients				
Ingredient Name	CAS Number	% wt <i>or</i> % 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	1	> 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	1	10		

T	OSHA	ACGIH	OTHER LIMITS RECOMMENDED	
Ingredient	PEL	TLV		
ETHYL			ORAL RAT LD50=2500MG/KG/ DERMAL LD50=5G/KG	
LACTATE				
POLYPALE	15PPM	N.E,	ORAL RAT LD50= >5G/KG	
RESIN				
SOLVENT RED				
160				
SOLVENT				
YELLOW 162				
DENATURED		- 1		
ETHANOL				
SOLVENT				
BLUE 7				
SOLVENT RED			ORAL RAT LD50=13.3G/KG;DERMAL LD50=20MG/KG	
_208			, =====================================	
SOLVENT			ORAL RAT LD50= >77MG/KG	
BLUE 38				

Product: POCKET MARKER PERMANENT INK Date 10/1/99 Revision: A SOLVENT ORAL RAT LD50=>10 G/KG **BLUE 70** SOLVENT RED ORAL RAT LD50= > 2G/KG 68 **POLYMERIC** N.E ORAL RAT LD50= 27.75 ML/KG **BOND** COLORANT SOLVENT YELLOW 173 **METAL** N.E. **COMPLEXED** AZO DYE **MIXTURE** BLEND OF DYE N.E. SOLVENT

Section 3 - Physical and Chemical Properties

Appearance and Odor: LIQUID--VERY SLIGHT

ALCOHOL LIKE

YELLOW 161 AND SOLVENT

RED 49

Vapor Pressure: 5 MM HG AT 20 DEG C

Vapor Density (Air=1): 3.12

Surface Tension: N.D.

Specific Gravity (H₂O=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, CO2, 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

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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.

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:

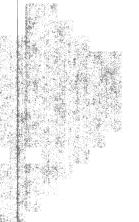
Regulatory Requirements: BURN IN AN APPROVED INCINERATOR IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS

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 WITHREASONABLE CARE, AVOID BREATHING APPARATUS Storage Requirements: PAY ATTENTION TO THE USUAL RULES FOR HANDLING CHEMICALS

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Revision Notes: