



049434

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 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

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
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 (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

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

Prepared By: R. DINGLAS

Revision Notes: