# Material Safety Data Sheet PERMANENT (P.O.I.) INK

**Date** 10/24/02 **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

#### **Section 2 - Composition / Information on Ingredients CAS Number Ingredient Name** % 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 N-PROPANOL 71-23-8 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 16.0 220P 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

	OSHA	ACGIH	OTHER LIMITS RECOMMENDED
Ingredient	PEL	TLV	
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			
N-PROPANOL			
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		N.E.	
MIXTURE			
BLEND OF DYE SOLVENT		N.E.	
YELLOW 161 AND SOLVENT			
RED 49			

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### **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  $^{\circ}$ 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  $> 5.0 \,\text{G/KG}$ 

Inhalation:

Eve: Skin: **Ingestion:** Carcinogenicity:

Medical Conditions Aggravated by Long-Term Exposure: MEDICAMENTS TAKEN CAN INCREASE THE NARCOTIC

EFFECT OF PROPANOL 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:**