

School Specialty

School Smart  
Permanent Markers  
All Colors

**Material Safety Data Sheet**

**PERMANENT (P.O.I.) INK**

Date 02/12/08 Revision C

**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
SOLVENT ORANGE 03	495-54-5	
TERPENE PHENOL RESIN	259094-71-8	
SOLVENT RED 160	70851.4.1	
SOLVENT YELLOW 146	299433.00001.5612	
BASIC BLUE 7	2390-60-5	
SOLVENT RED 039	65138.66.1	
SOLVENT BLUE DYE		
SOLVENT BLUE 70	9477.77.7	
SOLVENT RED 68	68555-82-8	
BLENDED SOLVENT BLACK LIQUID DYE		
SOLVENT YELLOW 047	71077-14-0	
SOLVENT ORANGE 023	18881400.5221	
SOLVENT RED 49	509.34.2	
N-PROPANOL	71-23-8	35-58

Ingredient	OSHA	ACGIH	OTHER LIMITS RECOMMENDED
	PEL	TLV	
SOLVENT ORANGE 03			NO DATA AVAILABLE
TERPENE PHENOL RESIN	N.E.	N.E.	ORAL RAT => 5000 MG/KG
SOLVENT RED 160			ORAL RAT > 10000 GM/KG LD50
SOLVENT YELLOW 146			ORAL RAT > 3000 MG/KG
N-PROPANOL			ORAL RAT LD50=> 1850MG/KG
BASIC BLUE 7			NOT APPLICABLE
SOLVENT RED 39			NO DATA AVAILABLE
SOLVENT BLUE DYE	1mg/m3	N.E.	NOT APPLICABLE
SOLVENT BLUE 70			ORAL RAT LD50= >10000 GM/KG
SOLVENT RED 68			ORAL RAT LD50= > 5000MG/KG
BLENDED SOLVENT BLACK LIQUID DYE		N.E.	NOT APPLICABLE
SOLVENT YELLOW 47	N.E.	N.E.	NO DATA AVAILABLE
SOLVENT ORANGE 023		N.E.	NO DATA AVAILABLE
SOLVENT RED 49		N.E.	NO DATA AVAILABLE

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### Section 3 - Physical and Chemical Properties

Appearance and Odor: LIQUID--VERY SLIGHT  
ALCOHOL LIKE  
Vapor Pressure: ND  
Vapor Density (Air=1): 2.2  
Surface Tension: N.D.  
Specific Gravity (H<sub>2</sub>O=1, at 4 °C): 0.850-0.920

Water Solubility: INFINITELY  
Boiling Point: 220 DEG F  
Freezing/Melting Point: ND  
Viscosity: ND  
Evaporation Rate: SLOWER THAN ETHER

### Section 4 - Fire-Fighting Measures

Flash Point: >73 DEG F  
Flash Point Method: COC  
Auto ignition Temperature NOT DETERMINED:  
LEL: N.A.  
UEL: N.A.  
Flammability Classification: 3  
Extinguishing Media: WATER FOG, ALCOHOL RESISTANT FOAM, CO<sub>2</sub>, And 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 RE, OXIDIZERS, OTHER HALOGENATED ORGANICS, HALIDES  
Conditions to Avoid: KEEP AWAY FROM HEAT, SPARKS AND FLAME  
Hazardous Decomposition Products: OXIDES OF CARBON, SMOKE, FUMES AND OTHER PRODUCTS OF INCOMPLETE COMBUSTION.

### Section 6 - Health Hazard Information

#### Potential Health Effects

Primary Entry Routes: HAZARDOUS  
Target Organs:  
Acute Effects > 5.0 G/KG  
Inhalation: PROLONGED EXPOSURE MAY CAUSE ADVERSE EFFECTS. Symptoms may include headache, dizziness.  
Eye: VAPOR MAY CAUSE EYE IRRITATION EXPERIENCED AS MILD DISCOMFORT AND REDNESS.  
Skin: Prolonged exposure not likely to cause significant skin irritation. Repeated contact may cause drying or flaking of skin.  
Ingestion:  
Carcinogenicity:  
Medical Conditions Aggravated by Long-Term Exposure: MEDICAMENTS TAKEN CAN INCREASE THE NARCOTIC EFFECT OF PROPANOL  
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 MIGHT 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

**Prepared By:** R. DINGLAS

**Revision Notes:**