

03/12/1996 12:05 5163335395

21224-XXXX *

LITOU MARK

PAGE 02

Material Safety Data Sheet

WATER BASED INKS

Liqui-Mark
 Manufacturer
 19 Clay Street
 Address
 Brooklyn, New York 11222
 718 - 389 - 0720
 Phone Number (For Information)
 same as above
 Emergency Phone Number Telex*

Identity (Trade Name as Used on Label)
 [Dick Blick markers]
 MSDS Number*
 CAS Number*
 Date Prepared 10/29/90
 Prepared By*

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS - Chemical Name & Common Name (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	%*	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
Ethylene Glycol CAS#107-21-1 1,2 Ethandiol	<30%		50ppm Ceiling	
Methanamide = Formamide CAS#75-12-7	<25%	20ppm	10ppm	
Acid Black #2 Nigrosine-Azine Hazardous-Non per 29 CFR-1910.1200	<10%	N/A	N/A	Animal Toxicity LD50 5000 mg/kg
Acid Yellow #23 CAS#1934-21-0			N/E	
Acid Blue #9 CAS#3844-45-9			N/E	
Acid Red #1 CAS#3734-67-6, Azo, Hazardous-None		N/E	N/A	Rat Oral LD50 449 mg/kg
Acid Red #87 CAS#17372-87-1 Xanthene Sara Title III Sec Sec.313 (not listed)		Non-Hazardous		RTECS, 1985
Acid Blue #1 CAS#129-17-9 Triphenylmethane	65	N/E	N/E	Rat Oral LD50 10,000 mg/kg
Acid Violet #17 CAS#4129-84-4 Triphenylmethane	Non-Hazardous	N/E	N/E	Asper 29 CFR part 1910-120
Acid Red #73 CAS#17372-87-1 Diazo, Hazardous-None (29 CFR part 1910.1200)		Non-Hazardous	N/E	
Non-Hazardous Ingredients	50-60%			
TOTAL	100			

V-2701

SECTION 2 - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point	105° - 110° C	Specific Gravity (H ₂ O = 1)	1.050 - 1.085
Vapor Pressure (mm Hg and Temperature)		Melting Point	
Vapor Density (Air = 1)	1.5	Evaporation Rate (H ₂ O = 1)	1
Solubility in Water	Complete	Water Reactive	
Appearance and Odor	Odorless Liquid		

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method Used	coc 500°F	Auto-Ignition Temperature	Flammability Limits in Air % by Volume	N/A	LEL	UEL
Extinguisher Media	Use water, carbon dioxide, foam or dry powder					
Special Fire Fighting Procedures	N/A in the amount of dye used in formulation.					
Unusual Fire and Explosion Hazards	None					

05/12/1998 12:06

5163335396

LIQUI MARK

PAGE 03

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	Conditions to Avoid None
Incompatibility (Materials to Avoid) N/A	
HAZARDOUS POLYMERIZATION <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur	
Conditions to Avoid	

SECTION 5 - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY	<input type="checkbox"/> Inhalation	<input type="checkbox"/> Ingestion	CARCINOGEN LISTED IN	<input type="checkbox"/> NTP	<input type="checkbox"/> OSHA
	<input type="checkbox"/> Skin Absorption	<input checked="" type="checkbox"/> Not Hazardous		<input type="checkbox"/> IARC Monograph	<input type="checkbox"/> Not Listed
HEALTH HAZARDS	Acute Chronic				
Signs and Symptoms of Exposure	No evidence of adverse health effects from available information.				
Medical Conditions Generally Aggravated by Exposure					
EMERGENCY FIRST AID PROCEDURES - Seek medical assistance for further treatment, observation and support if necessary.					
Eye Contact	Flush eyes with large amounts of water. Contact a physician.				
Skin Contact	Use soap and water.				
Inhalation	Remove to fresh air. Get medical attention.				
Ingestion	Give two glasses of water and induce vomiting. Call a physician.				

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (Specify Type)	N/A				
Protective Gloves			Eye Protection	Use goggles	
VENTILATION TO BE USED	<input checked="" type="checkbox"/> Local Exhaust	<input type="checkbox"/> Mechanical (general)	<input type="checkbox"/> Special		
	<input type="checkbox"/> Other (specify)				
Other Protective Clothing and Equipment Hygienic Work Practices					

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE / LEAK PROCEDURES

Steps to be Taken if Material Is Spilled Or Released	Rinse spilled material with water.				
Waste Disposal Methods					
Other Precautions and/or Special Hazards					
NFPA Rating*	Health	Flammability	Reactivity	Special	HMIS Rating*
					Health
					Flammability
					Reactivity
					Personal Protection

* Optional