

Permanent Marker

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Material Safety Data Sheet May be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200. Standard must be consulted for specific requirements.		U.S. Department of Labor Occupational Safety and Health Administration(Non-Mandatory Form) Form Approved OMB No. 1218-0072			
IDENTITY (As used on Label and list) - Extra Fine Point Permanent Marker (SCAUF) Black, Blue, Red, Green		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 I					
Manufacturer's Name The Pilot Ink Co.,LTD		Telephone Number 81-52-733-1561			
Address(Number, Street, City State & Zip) 3-17 Midoricho, Shouwa-ku, Nagoya-City		Fax Number 81-52-732-4938			
Aichi, 104-0031 Japan		Date Prepared January 5th, 2004			
		Signature of Preparer(Optional)			
Section II - Hazardous Ingredients/Identity Information					
Hazardous Components(Specific Chemical Identity:Common Name(s))		OSHA PEL	AC GIH TLV	Other Limits Recommended	% optional
NAME	CAS. NO.	TLV(PPM)	WT. (%)	COMPONENT	
<i>2-Methoxyethanol</i>	<i>109-86-4</i>	<i>25</i>	<i>50-72</i>	<i>Ink</i>	
<i>Ethyl Alcohol</i>	<i>64-17-50</i>	<i>1,000</i>	<i>0-35</i>	<i>Ink</i>	
<i>2-Methoxyethanol Acetate</i>	<i>110-49-6</i>	<i>25</i>	<i>0-14</i>	<i>Ink</i>	
<i>r-Butyrolactone</i>	<i>96-48-0</i>	<i>N.D.</i>	<i>0-10</i>	<i>Ink</i>	
Section III - Physical/Chemical Characteristics					
Boiling Point	<i>N.A.</i>		Specific Gravity (H2O=1)	<i>N.A.</i>	
Vapor Pressure(mm Hg)	<i>N.A.</i>		Melting Point	<i>N.A.</i>	
Vapor Density(Air=1)	<i>N.A.</i>		Evaporation Rate (Butyl Acetate = 1)	<i>N.A.</i>	
Solubility in Water <i>N.A.</i>					
Appearance and Odor <i>N.A.</i>					
Section IV - Fire and Explosion Hazard Data					
Flash Point(Method Used) <i>N.A.</i>		Flammable Limits <i>N.A.</i>		LEL <i>N.A.</i>	UEL <i>N.A.</i>
Extinguishing Media <i>Dry Chemical</i>					
Special Fire Fighting Procedures <i>None</i>					
Unusual Fire and Explosion Hazards <i>None</i>					
Section V- Reactivity Data					

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Stability	Unstable		Conditions to Avoid
	Stable	X	
Incompatibility (Materials to Avoid)	None		
Hazardous Decomposition or Byproducts	None		
Hazardous Polymerization	May Occur		Condition to Avoid
	May Not Occur	X	
Section VI - Health Hazard Data			
Route(s) of Entry: <i>None</i>	Inhalation? <i>Yes (Ink)</i>	Skin? <i>Yes (Ink)</i>	Ingestion? <i>Yes (Ink)</i>
Health Hazards (Acute and Chronic) <i>N.D.</i>			
Carcinogenicity:	NTP? <i>None</i>	IARC Monographs? <i>3(r-Butyrolactone)</i>	OSHA Regulated? <i>None</i>
Signs and Symptoms of Exposure <i>N.D.</i>			
Medical Conditions			
Generally Aggravated by Exposure <i>N.D.</i>			
Emergency and First Aid Procedures <i>INHALATION & INGESTION: Seek Medical</i>			
<i>EYES & SKIN: Immediately flush with plenty of water. seek medical.</i>			
Section VII - Precautions for Safe Handling and Use			
Steps to Be Taken in Case Material is Released or Spilled			
<i>Flush with thinner, soak up with absorbent materials (paper, cloth)</i>			
Waste Disposal			
<i>In accordance with national, state and local regulations.</i>			
Precautions to Be Taken in Handling and Storing			
<i>Avoid ignition sources</i>			
Other Precautions			
Section VIII - Control Measures			
Respiratory Protection (Specify Type) <i>Not Required</i>			
Ventilation	Local Exhaust <i>Not Required</i>	Special <i>Not Required</i>	
	Mechanical (General) <i>Not Required</i>	Other <i>Not Required</i>	
Protective Gloves	Eye Protection		
<i>Not Required</i>	<i>Not Required</i>		
Other Protective Clothing or Equipment			
<i>Not Required</i>			
Work/Hygienic Practices			

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Not Required

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