

MSDS <sup>(1)</sup>  
 MATERIAL SAFETY DATA SHEET  
 SUPPLIERS  
 FOR WAREHOUSERS  
 ENDUSERS

SIGN PEN - LIQUID INK.  
 SW-VSP  
 Black, Red, Blue,  
 QUICK IDENTIFIER <sup>(2)</sup>  
 ISO/TC10/SC9/WG7N92

SECTION I · GENERAL INFORMATION

Manufacturer's Name	PILOT CORPORATION	Telephone No. (Area Code)	03-5487-8181
Address	8-1, Nishigotanda 2-chome, Shinagawa-ku Tokyo, 141 Japan	Telex No. PILOT J 27443	Telefax No. 03-5487-8097
		Date	Prepared by

SECTION II · HAZARDOUS INGREDIENTS (SPECIFY COMPONENT)

Hazardous Ingredients (Chemical or common name(s)) <sup>(3)</sup>	CAS No.	TLV ppm	weight %	Component
Ethylene glycol	107-21-1	50	8.0~9.0	INK
Phenol	108-95-2	5	0.2	INK

SECTION III · PHYS. /CHEM. CHARACTERISTICS (SPECIFY COMPONENT)

Appearance and Odor				
Writing instrument, no smell.				
Boiling Point °C	n. a.	Density (g/cm <sup>3</sup> )	n. a.	
Vapor Density (Air=1)	n. a.	Melting Point °C	n. a.	
Solubility in Water	n. a.	Evaporation Rate (Butyl Acetate=1)	n. a.	
P. Surized	yes	no	×	% Volatile <sup>(4)</sup>
Other Characteristics				

None

SECTION IV · FIRE & EXPLOSION HAZARD DATA

Flash Point (Method Used) (°C)	n. a.	Explosion Limits (Vol.%)	LEL n. a.	UEL n. a.
Extinguishing Media	Water, dry chemical.			
Special Fire Fighting Precautions	n. a.	Autoignition Temp. (°C)	n. a.	
List Hazardous Products of Decomposition	n. d.			
Other Advice	None			

IMPORTANT

- Do not leave any blank spaces. If required information is unavailable, unknown, or does not apply, so indicate as follows: not applicable=n.a.; not determined=n.d.
- Product type and common name (used on Label and List)
- Cited in any National Regulations on the classification, packaging and labelling of dangerous substances, preparations, paints, varnishes, printing inks, adhesives and similar products.
- Part of the mixture which evaporates.

5W-VSP

SECTION V - STORAGE HAZARDS -

Stability Unstable  Conditions  
 Stable  to Avoid None

Incompatibility  
 (Materials to Avoid) n. a.

Hazardous Products  
 of Decomposition n. a.

Hazardous May Occur  Conditions  
 Polymerization Will Not Occur  to Avoid None

SECTION VI - HEALTH HAZARDS

1. Acute <sup>(5)</sup> n. d. 2. Chronic <sup>(5)</sup> n. d.

Signs and Symptoms <sup>(5)</sup>  
 of Overexposure n. d.

Medical Conditions Generally  
 Aggravated by Exposure n. d.

Chemical Listed as Carcinogen No

Emergency and First Aid Procedures

Routes of Entry	Emergency Procedures	Seek Medical Advice
Inhalation	n. a.	<input checked="" type="checkbox"/>
Eyes	Flush with plenty of water.	<input checked="" type="checkbox"/>
Skin	Wash off in flowing water.	<input checked="" type="checkbox"/>
Ingestion	n. d.	<input checked="" type="checkbox"/>

SECTION VII - SPECIAL PRECAUTIONS

Special Precautions to be Taken  
 in Handling None

Other  
 Precautions None

Steps to be Taken in Case  
 Material is Released or Spilled n. a.

Waste Disposal  
 Methods In accordance with national, state and local regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

Respiratory Protection  
 (Specify Type) n. a.

Ventilation	Local Exhaust	Mechanical (General)	Other
	n. a.	n. a.	n. a.

Skin and Eye Protection  
 n. a.

Work/Hygienic Practices  
 n. a.

(5) LD<sub>50</sub> shall be noted if known. not applicable=n.a.  
 (6) Health hazard by ingestion or inhalation shall be noted if known. not determined=n.d.