



THE PILOT PEN CO., (THAILAND) LTD

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## MATERIAL SAFETY DATA SHEET

## 1. Production &amp; Company Identification

1.1 Writing Ink Names	: SIGN PEN (B,R,L,G,BN,P,LB,Y,O,LG,V,L-BN)
1.2 Writing instrument Names	: SDR-200 (B,R,L,G,BN,P,LB,Y,O,LG,V,L-BN) : SW-CC (B,R,L,G,BN,P,LB,Y,O,LG,V,L-BN) : SW-C (B,R,L,G,BN,P,LB,Y,O,LG,V,L-BN)
1.3 Manufacturer / Supplier	: THE PILOT PEN CO.,(THAILAND)LTD.
Address	: 40/1-3 Moo 12 Bangbon 5 Rd. Nhongkhaem, Bangkok 10160 Thailand
Telephone number	: (662) 429-3950
Fax number	: (662) 429-3954

## 2. Composition / Information on Ingredients

## Writing ink

## Substance / Mixture

	Cas no.	Weight (%)
Deionized water	7732-18-5	70.07 ~ 78.0
Glycerine	56-81-5	10.00
Propylene Glycol	57-55-6	10.00 (except ink color O, LG,V )
Ethylene Glycol	107-21-1	10.00 ~ 14.00 (except ink color O, LG only)
Diethylene Glycol	111-46-6	10.00 (except ink color V only)

## 3. Hazards Identification

Class name of Hazardous chemical for SDS in Japan	Not application
1) Physical and Chemical hazards	: Flammable solid
2) Adverse human health effects	: Reference toxicological information
3) Environmental effect	: Harmless to environment

## 4. First Aid Measures

- 4.1) Eye contact : Wash with plenty of water  
4.2) Skin contact : Wash with soap Water  
4.3) Inhalation : No  
4.4) Ingestion : No Data



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#### 5. Fire-Fighting Measures

- 5.1) Extinguishing media : Dry chemical ,CO<sub>2</sub> ,foam or sand  
5.2) Specific hazard with regard to fire fighting measures : Don't use water in a jet.

#### 6. Accidental Release Measures

Scrape up spill and wipe area with absorbant towelling  
Place spill and towelling into metal safety can.

#### 7. Handling & Storage

General Measures : There are no unusual hazards associated with handing of this product.  
Material or condition to avc : None known

#### 8. Exposure control / Personal protection

Control Parameters

Enginerring Measures : Use with local exhaust ventilation

Personal Protective Equipment

- a. Respiratory protection : Impevious gloves  
b. Eye protection : Goggless  
c. Hand, Skin and Body protection : Apron or protective clothing recomnanded.

#### 9. Physical & Chemical properties

Physical state,form :

- 9.1) Appearance : Color solid and no odor  
9.2) Color : Follow 12 ink colors  
9.3) Density : No Data



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## 12. Ecological information

Writing ink

12.1) Biodegradability : No data

12.2) Bioaccumulation : No data

12.3) Fish toxicity : No data

## 13. Disposal consideration

Follow the local law and regulations in your country

## 14. Transport information

- UN Class

- UN No

## 15. Regulatory information

Follow the local law and regulations in your country

## 16. Other information

References



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9.4) Flash point : &gt;166 ° C /330 F

9.5) Autoignition temperature : No Data

9.6) Upper and Lower explosion limit : No Data

9.7) Boiling point : No Data

9.8) Melting point : No Data

9.9) Vapor pressure : No Data

9.10) Solubility in water : Insoluble

**10. Stability & Reactivity**

10.1) Flammability : Flammable solid

10.2) Spontaneous combustibility :

10.3) Reactivity with water : Will not occur

10.4) Oxidizibility :

10.5) Self-reactivity : Will not occur

10.6) Stability &amp; Reactivity : Stable

**11. Toxicological Information**

11.1 Corrosive and irritance properties : No data

11.2 Allergenic and sensitizing effects : No data

11.3 Acute toxicity : No data

11.4) Sub-chronic toxicity : No data

11.5) Chronic toxicity : No data

11.6) Carcinogenic effects : No data

11.7) Mutagenic effects : No data

11.8) Effects on the reproductive system : No data

11.9) Teratogenic effects : No data