



THE PILOT PEN CO., (THAILAND) LTD

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## MATERIAL SAFETY DATA SHEET

### 1. Production & Company Identification

1.1 Writing Ink Names : SCN (Black,Red,Blue,Green)  
1.2 Writing instrument Names : SCN-F (Black, Red,Blue,Green)  
: SCN-B (Black,Red,Blue,Green)  
: SCI-R (Black,Red,Blue,Green)  
1.3 Manufacturer / Supplier : THE PILOT PEN CO.,(THAILAND)LTD.  
Address : 40/1-3 Moo 12 Bangbon 5 Rd. Nongkhaem,  
Bangkok 10160 Thailand  
Telephone number : (662) 429-3950  
Fax number : (662) 429-3954

### 2. Composition / Information on Ingredients

#### Writing ink

##### Substance / Mixture

	<u>Cas no.</u>	<u>Weight (%)</u>
Xylene	1330-20-7	44.72 ~ 58.48
Ethylbenzene	100-41-4	7.28 ~ 9.52 (Impurities about 14% in Xylene)
n-Butanol	71-36-3	10.0 ~ 20.0
1- Methoxy-2-Propanol	107-98-2	5.00 (Black Ink)

### 3. Hazards Identification

#### 3.1 Writing ink

##### Class name of Hazardous chemical for SDS in Japan

Flammable Liquid  
Acute Toxic substances

1) Physical and Chemical hazards : Flammable liquid  
2) Adverse human health effects : Irritating to eyes  
: Irritating to skin  
: Harmful by inhalation  
: Harmful by swallowed  
3) Environmental effect : Not available

3.2 Writing Instrument : Follow the local law and regulations in your country

### 4. First Aid Measures

#### Writing ink

4.1) Eye contact : Gently rinse the effected eyes with clean water for at least 15 minutes and refer for medical attention.  
4.2) Skin contact : Wash the affected area under tepid running water using a mild soap  
4.3) Inhalation : Remove the victim from the contamination immediately to fresh air and refer for medical attention.  
4.4) Ingestion : Refer for medical attention



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**5. Fire-Fighting Measures****Writing ink**

- 5.1) Extinguishing media : In case of fire use water spray, foam, dry chemical powder or carbon dioxide.
- 5.2) Specific hazard with regard to fire fighting measures : Apply water from a safe distance to cool and protect surrounding area.

**6. Accidental Release Measures****Writing ink and Writing Instrument**

Absorb spill with material (e.g. dry sand or earth, cloth), then place in a chemical waste containers

**7. Handling & Storage****7.1) Handling**

- Writing ink : Avoid rough handling of dropping.  
: Keep container tightly closed.  
: Wear protective safely glasses, gloves

**7.2) Storage**

- Writing Ink : Inside storage should be in a well-ventilated, noncombustible location, away from all position source of ignition.  
: Follow the local law and regulations in your country
- Writing Instrument : Follow the local law and regulations in your country

**8. Exposure control / Personal protection****8.1) Control parameters****Writing ink**

- |                       |          |
|-----------------------|----------|
| Xylene                | 100 ppm. |
| Ethylbenzene          | 100 ppm. |
| n-Butanol             | 50 ppm.  |
| 1- Methoxy-2-Propanol | 100 ppm. |

**8.2) Engineering measures**

- 1) Writing ink : Use with local exhaust ventilation
- 2) Writing Instrument : Not required

**8.3) Personal protective equipment****1) Writing ink**

- Respiratory protection : Industrial canister gas masks.
- Eye protection : Safety glasses
- Hand, Skin and Body protection : Rubber gloves

- 2) Writing Instrument : Not required

**9. Physical & Chemical properties****Physical state, form :**

- 9.1) Appearance : Liquid
- 9.2) Color : Black, Red, Blue, Green, Pink, Violet
- 9.3) Density : 0.882 - 0.936@20.0 °C



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9.4) Flash point	: 27.0 ° C ( o-Xylene) : 23.2 ° C ( m-Xylene) : 27.0 ° C ( p-Xylene)
9.5) Autoignition temperature	: 464 ° C ( o-Xylene) : 563 ° C ( m-Xylene) : 564 ° C ( p-Xylene)
9.6) Upper and Lower explosion limit	: 7.5 Vol.%, 1.0 Vol.% (o-Xylene) : 7.0 Vol.%, 1.1 Vol.% (m-Xylene) : 7.0 Vol.%, 1.1 Vol.% (p-Xylene)
9.7) Boiling point	: 144.41 ° C (o-Xylene)) : 139.35 ° C (m-Xylene)) : 138.35 ° C (p-Xylene))
9.8) Vapor pressure	: 4.8 mmHg@20.0 ° C (o-Xylene) : 6.2 mmHg@20.0 ° C (m-Xylene) : 6.6 mmHg@20.0 ° C (p-Xylene)
9.9) Solubility in water	: Insoluble
9.10) Solubility in	

**10. Stability & Reactivity**

Writing Ink

10.1) Flammability	: Flammable
10.2) Spontaneous combustibility	: Not available
10.3) Reactivity with water	: This material is stable
10.4) Oxidizibility	: This material is stable
10.5) Self-reactivity	: This material is stable
10.6) Stability & Reactivity	: This product is considered a stable material under normal and anticipated storage and handling conditions.

**11. Toxicological Information**

11.1) Corrosive and irritant properties	: No data.
11.2) Allergenic and sensitizing effect	: No data
11.3) Acute toxicity	: Xylene LD50 8640 mg./kg (Rat oral) n-Butanol LD50 2500 mg./kg(Rat oral) LD50 4200 mg./kg(Rabbit Skin) : 1-Methoxy-2-Propanol LD50 6.6 g./kg (Rat oral) LD50 13.0 g./kg (Rat Skin)



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11.4) Sub-chronic toxicity

: Xylene

Headache (Human 30 ppm. Inhalation)

Nausea (Human 100 ppm. Inhalation)

: n-Butanol

No data

: 1-Methoxy-2-Propanol

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

## 12. Ecological information

Writing ink

12.1) Biodegradability

: Xylene

Good

: n-Butanol

Good

: 1-Methoxy-2-Propanol

Good

12.2) Bioaccumulation

No data

12.3) Fish toxicity

: Xylene

56 ppm.(TLm48 : Carp)

32 ppm.(TLm3 : Water Flea)

n-Butanol

LC50 1900 mg./litre x 24 hrs (Goldfish)

: 1-Methoxy-2-Propanol

No data

## 13. Disposal consideration

Writing Ink and Writing Instrument

Follow all regulations in your country

## 14. Transport information

14.1 Writing Ink and Writing Instrument

Follow all regulations in your country

14.2 Writing ink

- UN Class

: Class 3

- UN No

: 1993 (Writing Instrument)

: 1210 (Writing ink)

## 15. Regulatory information

Writing Ink and Writing Instrument

Follow all regulations in your country

## 16. Other information

References

The information here is given in good faith, but no warranty, express or implied is made.