



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.
: Water 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.