

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

070173518

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

070134163 070134171 070172916 070172924 070172932 070172940 070172957 070172981 070173476 070173484

070173492 070173500 070173542

## MATERIAL SAFETY DATA SHEET

Date of Issue: September 1, 2009  
SDS No.: SI-018  
Version: 001



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### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY

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This product is a writing instrument to be recognized as Article.

#### 1.1. Identification of the substance or preparation

Product name : P500  
P700  
Product code : P500-B/R/L/G/V  
P700-B/R/L/G/V

#### 1.2. Use of the preparation : Ink for writing instrument

#### 1.3. Company identification e-mail address

Name of manufacture /supplier : PILOT Corporation Of America  
Address : 3855 Regent Blvd., Jacksonville, FL 32224  
Telephone number : 904-645-9999  
Working hours (from 08.30am to 04.30pm)  
Facsimile number : 904-996-2974

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### 2. HAZARDS IDENTIFICATION

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Physical /Chemical hazards : Not applicable  
Environmental hazards : Not applicable  
Effect of exposure : Not applicable  
Symptom of exposure  
Inhalation : Intentional exposure to ink vapors may cause respiratory irritation.  
Ingestion : May cause upset stomach.  
Skin contact : Ink contact with skin may cause irritation, swelling, or redness.  
It is not expected to cause an allergic skin reaction.  
Eye contact : Ink contact with eye may be mildly irritating.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

For ink unless otherwise specified

Ingredients	CAS Number	EINECS Number	Weight %	Component
Ethylene glycol	107-21-1	203-473-3	8.4	Black
Carbon black	1333-86-4	215-609-9	5.8	Black
C.I.Pigment blue 15:3 Copper phthalocyaninato	147-14-8	205-685-1	0.2-8.0	Blue/Green
C.I.Pigment green 7	1328-53-6	215-524-7	7.8	Green
Phenol	108-95-2	203-632-7	0.2-0.4	All Colors

### 4. FIRST AID MEASURES

Inhalation	: Remove subject to ventilated fresh air. Consult physician if necessary.
Ingestion	: Refer for medical attention.
Skin contact	: Wash the affected area under tepid running water using a mild soap. And refer for medical attention if irritation continues.
Eye contact	: Gently rinse the affected eyes with clean water for at least 15 minutes. And refer for medical attention if irritation continues.
First aid facilities	: Ensure eyewash and water service are available.
Medical attention	
Local contamination	
	: In case of skin or eye contamination treat as under First Aid Measures.
Systemic poisoning	
	: There is no specific antidote. Treat symptoms.

### 5. FIRE-FIGHTING MEASURES

5.1. Suitable extinguishing media	: Not classed as flammable. In case of fire, use water spray, foam, dry chemical powder or carbon dioxide.
5.2. Extinguishing media which shall not be used for safety	: None
5.3. Special exposure hazards arising from the substance or preparation itself, combustion products	: CO <sub>2</sub> , CO, NO <sub>x</sub> , and SO <sub>x</sub> are produced after combustion.
5.4. Special protective equipment for fire-fighters	: Not required
5.5. Additional information	: None

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## 6. ACCIDENTAL RELEASE MEASURES

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- 6.1. Personal precautions : Use proper ventilation. Use eye and skin protection.
- 6.2. Environmental precautions : Keeping away from drains, surface-and ground-water and soil, possible need to alert the neighbourhood.
- 6.3. Methods for cleaning up : Absorb spill with material (cloth or paper), then place in chemical waste containers.
- 6.4 .Additional information : None

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## 7. HANDLING AND STORAGE

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- 7.1. Handling : Avoid rough handling or dropping.
- 7.1.1. Protective measures : Not required in normal use.
- 7.1.2. Measures to prevent aerosol and dust generation : Not required in normal use.
- 7.1.3. Measures required to protect the environment : Not required in normal use.
- 7.1.4. Specific requirements or handling rules : None
- 7.1.5. Precautions against fire and explosion : Not required in normal use.
- 7.2. Storage : Store in a dry, cool, well-ventilated location.
- 7.3. Specific use(s) : Not use it except the ink for writing instruments.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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- 8.1. Exposure limit values : No data
- 8.1.1. Occupational exposure controls : Not available
- 8.1.2. Biological limit values : Not available
- 8.1.3. DNEL and PNEC-value(s) as applicable : No data
- 8.2. Exposure controls
- 8.2.1. Occupational exposure controls
- a) Respiratory protection : Not required
- b) Hand protection : Wear suitable gloves.
- c) Eye protection : Wear eye protection.
- d) Skin protection : Wear suitable protective clothing.
- 8.2.2. Environmental exposure controls
- : ACGIH TLV-TWA Ethylene glycol : 50ppm
- Phenol : 5ppm

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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For ink unless otherwise specified

### 9.1. General information

- Appearance : Viscosity liquid  
[Color] Black, Red, Blue, Green, Violet
- Odor : Slight characteristic

### 9.2. Important health, safety and environmental information

- pH : 6.5-9.5
- Boiling point / boiling range : About 100 degrees Celsius

Flash point	: Boils without flashing
Flammability (solid, gas)	: None
Explosive properties	: None
Oxidizing properties	: None
Vapor pressure	: No data
Relative density	: 1.05-1.09 (at 20 degrees Celsius)
Solubility	: Not applicable
Water solubility	: Soluble
Partition coefficient: n-octanol / water	: Not available
Viscosity	: 900-1900 mPa— s (at 20 degrees Celsius, 3.84s <sup>1)</sup>
Vapor density	: No data
Evaporation rate	: No data

9.3. Other information : None

## 10. STABILITY AND REACTIVITY

10.1. Conditions to avoid	: This material is stable.
10.2. Materials to avoid	: This material is stable.
10.3. Hazardous decomposition products	: No data

## 11. TOXICOLOGICAL INFORMATION

For ink unless otherwise specified

11.1. Toxicokinetics, metabolism and distribution	: No data
11.2. Acute effects (acute toxicity, irritation and corrosivity)	
: Acute toxicity	Ethylene glycol LD <sub>50</sub> 8540ml/kg(rat)
	Phenol LD <sub>50</sub> 317 mg/kg(rat)
11.3. Sensitization	: No data
11.4. Repeated dose toxicity	: No data
11.5. CMR (carcinogenicity, mutagenicity, and toxicity for reproduction)	
: carcinogenicity	Carbon black IARC Group 2B

## 12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity	: No data
12.2. Mobility	: No data
12.3. Persistence and degradability	: No data
12.4. Bioaccumulative potential	: No data
12.5. Results of PBT assessment	: No data
12.6. Other adverse effects	: None

## 13. DISPOSAL CONSIDERATIONS

- Follow all regulations in your country.
- Not hazardous waste.

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#### 14. TRANSPORT INFORMATION

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14.1. UN number	: Not applicable
14.2. Class	: Not applicable
14.3. Proper shipping name	: Not applicable
14.4. Packing group	: Not applicable
14.5. Marine pollutant	: Not applicable
14.6. Other applicable information	: None

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#### 15. REGULATORY INFORMATION

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— Follow all regulations in your country.

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#### 16. OTHER INFORMATION

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The information here is given in good faith, but no warranty, express or implied, is made.  
Final determination of suitability of any material is the sole responsibility of the user.

End of SDS