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## MATERIAL SAFETY DATA SHEET

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### 1. PRODUCT & COMPANY IDENTIFICATION

- WRITING INK NAMES ;G1-B,-L,-R,-G,
  - WRITING INSTRUMENT NAMES ;BL-G1-5/7/10T-B,-L,-R,-G,
  - NAME OF MANUFACTURER / SUPPLIER ; PILOT CORPORATION
  - ADDRESS ;2-6-21,KYOBASHI, CHUOKU TOKYO,  
104-8304 JAPAN
  - TELEPHON NUMBER ; 03-3538-3700
  - FAX NUMBER ; 03-3538-3909
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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

#### WRITING INK

#### SUBSTANCE / MIXTURE

#### MIXTURE

	CAS No.	weight %
Triethanolamine	102-71-6	5.0 (except -G) 2.0 (-G)
Ethylene Glycol	107-21-1	20.0

- UN CLASS ; Not applicable
  - UN No. ; Not applicable
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### 3. HAZARDS IDENTIFICATION

#### WRITING INK

- CLASS NAME OF HAZARDOUS CHEMICALS FOR MSDS IN JAPAN  
; Not applicable

#### WRITING INSTRUMENT

; Follow the local law and regulations in your country.

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### 4. FIRST-AID MEASURES

#### WRITING INK

- EYE CONTACT ; Gently rinse the affected eyes with clean water for at 15 minute.  
And refer for medical attention.
  - SKIN CONTACT ; Wash the affected area under tepid running water using a mild soap.
  - INGESTION ; Refer for medical attention.
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### 5. FIRE-FIGHTING MEASURES

#### WRITING INK

- EXTINGUISHING MEDIA  
; Not classed as flammable.  
In case of fire , use water spray , foam , dry chemical powder or carbon dioxide.

## 6. ACCIDENTAL RELEASE MEASURES

### **WRITING INK AND WRITING INSTRUMENT**

; Absorb spill with material (cloth or paper) , then place in a chemical waste containers.

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## 7. HANDLING & STORAGE

### • **HANDLING**

#### **WRITING INK**

; Avoid rough handling or dropping.

Follow the local law and regulations in your country.

### • **STORAGE**

#### **WRITING INK**

; Store in a cool, dry, well-ventilated location.

Follow the local law and regulations in your country.

#### **WRITING INSTRUMENT**

; Follow the local law and regulations in your country.

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## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

### • **PERSONAL PROTECTIVE EQUIPMENT**

#### **WRITING INK**

##### • **EYE PROTECTION**

; Wear eye protection.

##### • **HAND PROTECTION**

; Wear suitable gloves.

##### • **SKIN AND BODY PROTECTION**

; Wear suitable protective clothing.

#### **WRITING INSTRUMENT**

; Not required

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## 9. PHYSICAL & CHEMICAL PROPERTIES

### **WRITING INK**

#### • **PHYSICAL STATE , FORM**

; Viscosity liquid

#### • **COLOR**

; Black, Red, Blue, Green

#### • **PH**

; 8.5~9.2

#### • **FLASH POINT**

; Boils without flashing

#### • **EXPLOSIVE PROPERTIES**

; Not applicable

#### • **DENSITY**

; 1.10~1.12 (at 20°C)

#### • **SOLUBILITY IN WATER**

; Soluble

## **10. STABILITY & REACTIVITY**

### **WRITING INK**

#### **• STABILITY**

- REACTIVITY WITH WATER ; Stable
- OXIDIZIBILITY ; Stable
- SELF-REACTIVITY ; Stable

#### **• STABILITY & REACTIVITY**

; This product is considered a stable material under normal and anticipated storage and handling conditions.

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## **11. TOXICOLOGICAL INFORMATION**

### **WRITING INK**

- ACUTE TOXICITY ; Triethanolamine LD50 8,680mg/kg (rat)  
Ethylene Glycol LD50 4,700mg/kg (rat)
  - LOCAL EFFECTS ; Not available
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## **12. ECOLOGICAL INFORMATION**

### **WRITING INK**

- DEGRADABILITY ; Not available
  - BIOACCUMULATION ; Not available
  - ECOTOXICITY ; Not available
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## **13. DISPOSAL CONSIDERATION**

### **WRITING INK AND WRITING INSTRUMENT**

; Follow all regulations in your country.

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## **14. TRANSPORT INFORMATION**

### **WRITING INK AND WRITING INSTRUMENT**

; Follow all regulations in your country.

- UN CLASS ; Not applicable
  - UN No. ; Not applicable
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## **15. REGULATORY INFORMATION**

### **WRITING INK AND WRITING INSTRUMENT**

; Follow all regulations in your country.

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## **16. OTHER INFORMATION**

#### **• REFERENCES**

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.