

## SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

|                                   |  |
|-----------------------------------|--|
| • WRITING INK NAMES               | SC-PE-GD   |
| • WRITING INSTRUMENT NAMES        | • SC-G-EF  |
| • NAME OF MANUFACTURER / SUPPLIER | PILOT CORPORATION  |
| • ADDRESS                         | 6-21, KYOBASHI 2-CHOME, CHUO-KU TOKYO,<br>104-8304 JAPAN |
| • TELEPHONE NUMBER                | 03-3538-3700   |
| • FAX NUMBER                      | 03-3538-3909   |

2. COMPOSITION/INFORMATION ON INGREDIENTS

## WRITING INK

| SUBSTANCE / MIXTURE | CAS No     | weight % |
|---------------------|------------|----------|
| Ethylcyclohexane    | 1678-91-7  | 10       |
| Mthylcyclohexane    | 108-87-2   | 34.2     |
| Solventnaphtha      | 64742-12-7 | 2.0      |

3. HAZARDS IDENTIFICATION

## WRITING INK

- CLASS NAME OF HAZARDOUS CHEMICALS FOR SDS IN JAPAN  
FLAMMABLE LIQUID
- PHYSICAL AND CHEMICAL HAZARDS  
Flammable liquid
- ADVERSE HUMAN HEALTH EFFECTS  
Irritating to eyes.  
Irritating to skin.  
Harmful by inhalation.  
Harmful by swallowed.
- ENVIRONMENTAL EFFECTS  
Not available

## WRITING INSTRUMENT

Follow the local raw and regulations in your country.

4. FIRST-AID MEASURES

## WRITING INK

- EYE CONTACT  
Gently rinse the affected eyes with clean water for at least 15 minutes.  
And refer for medical attention.
- SKIN CONTACT  
Wash the affected area under tepid running water using a mild soap.
- INHALATION  
Remove the victim from the contamination immediately to fresh air.  
And refer for medical attention.
- INGESTION  
Refer for medical attention.

5. FIRE-FIGHTING MEASURES

## WRITING INK

- EXTINGUISHING MEDIA  
In case of fire, use water spray, foam, dry chemical powder or carbon dioxide.
- 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

## •HANDLING

## WRITING INK

Avoid rough handling or dropping.  
Keep container tightly closed.  
Wear protective safety glasses,gloves.

## •STORAGE

## WRITING INK

Inside storage should be in a well -ventilated ,noncombustible location ,away from all possible source of ignition.

## WRITING INSTRUMENT

Follow the local raw and regulations in your country.

8. EXPOSURE CONTROL /PERSONAL PROTECTION

## •CONTROL PARAMETERS

## WRITING INK

400ppm(Mthylcyclohexane)

## •ENGINEERING MEASURES

## WRITING INK

Use with local exhaust ventilation.

## WRITING INSTRUMENT

Not required

## •PERSONAL PROTECTIVE EQUIPMENT

## WRITING INK

## •RESPIRATORY PROTECTION

Industrial Canister gas masks.

## •EYE PROTECTION

Safety glasses

## •HAND, SKIN AND BODY PROTECTION

Rubber gloves

## WRITING INSTRUMENT

Not required

9. PHYSICAL & CHEMICAL PROPERTIES

## WRITING INK

## •PHYSICAL STATE , FORM:

## •APPEARLANCE:

liquid

## •COLOR:

gold

## •DENSITY:

1.10 (25.0°C)

## •FLASH POINT

-11.5°C(MCH)

## •AUTOIGNITION TEMPERATURE:

309°C(MCH)

## •UPPER AND LOWER EXPLOSION LIMIT:

no data % (g/m<sup>3</sup>), 1.2 % (g/m<sup>3</sup>) , MCH

## •BOILING POINT:

100.9 °C(MCH)

## •MELTING POINT:

-126.6°C(MCH)

## •VAPOR PRESSURE:

6.17KPa(25.0°C MCH)

## •SOLUBILITY IN WATER

Insoluble

## •SOLUBILITY IN -----:

10. STABILITY & REACTIVITY

## WRITING INK

|                              |   |
|------------------------------|---|
| • FLAMMABILITY               | Flammable   |
| • SPONTANEOUS COMBUSTIBILITY | Not available   |
| • REACTIVITY WITH WATER      | This material is stable.  |
| • OXIDIZIBILITY              | This material is stable   |
| • SELF-REACTIVITY            | This material is 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

|                                      |               |
|--------------------------------------|---------------|
| • CORROSIVE AND IRRITANT PROPERTIES  | Not available |
| • ALLERGENIC AND SENSITIZING EFFECTS | Not available |
| • ACUTE TOXICITY                     | Not available |
| • SUB-CHRONIC TOXICITY               | Not available |
| • CHRONIC TOXICITY                   | Not available |
| • CARCINOGENIC EFFECTS               | Not available |
| • MUTAGENIC EFFECTS                  | Not available |
| • EFFECTS ON THE REPRODUCTIVE SYSTEM | Not available |
| • TERATOGENIC EFFECTS                | Not available |

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12. ECOLOGICAL INFORMATION

## WRITING INK

|                    |               |
|--------------------|---------------|
| • BIODEGRADABILITY | Not available |
| • BIOACCUMULATION  | Not available |
| • FISH TOXICITY    | 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.

## WRITING INK

|             |         |
|-------------|---------|
| • UN CLASS: | Class 3 |
| • UN No.:   | 1993    |

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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.