

# SAFETY DATA SHEET

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## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

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

### 1.1. Identification of the substance or mixture

Product name : SCA Makers – Extra Fine  
Product code : SCAN-EF-B/G  
Mixture name : SCUF-B/G

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

### 1.3. Company identification e-mail address

Name of manufacture : PILOT Corporation  
/supplier  
Address : 6-21, Kyobashi 2-chome, Chuo-ku, Tokyo, 104-8304, Japan  
Telephone number : 03-3538-3700  
Working hours (from 09.00am to 05.30pm)  
Facsimile number : 03-3538-3909  
E-mail address : international@pilot.co.jp

## 2. HAZARDS IDENTIFICATION

### 2.1. GHS Classification of the substance or mixture

#### Physical hazards

Flammable Liquids : Category 3

#### Health hazards

Skin corrosion/irritation : Category 3

Eye damage/irritation : Category 2

Specific target organ toxicity (single exposure) : Category 3 (narcotic effects)

### 2.2. GHS label elements

Hazard pictograms : The image shows two GHS hazard pictograms side-by-side. The first is a red diamond with a black flame symbol, representing 'Flammable'. The second is a red diamond with a black exclamation mark symbol, representing 'Health hazard'.

Signal word : Warning

#### Hazard statements

H226 : Flammable liquid and vapor  
H316 : Causes mild skin irritation  
H319 : Causes serious eye irritation  
H335 : May cause respiratory irritation  
H336 : May cause drowsiness or dizziness

#### Precautionary statements

##### Prevention

~~P210 : Keep away from heat, hot surfaces, sparks, open flames and other~~

- ignition sources. No smoking.
- P233 : Keep container tightly closed.
  - P240 : Ground and bond container and receiving equipment.
  - P241 : Use explosion-proof equipment.
  - P242 : Use non-sparking tools.
  - P243 : Take action to prevent static discharges.
  - P261 : Avoid breathing mist/vapours.
  - P264+P265 : Wash hands thoroughly after handling. Do not touch eyes.
  - P271 : Use only outdoors or in a well-ventilated area.
  - P280 : Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

**Response**

- P303+P361+P353 : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P332+P317 : If skin irritation occurs: Get medical help.
- P304+P340 : IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P319 : Get medical help if you feel unwell.
- P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P317 : If eye irritation persists: Get medical help.
- P370+P378 : In case of fire: Use foam, dry, chemical powder or carbon dioxide to extinguish.

**Storage**

- P403+P233+P235 : Store in a well-ventilated place. Keep container tightly closed. Keep cool.
- P405 : Store locked up.

**Disposal**

- P501 : Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards : None

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Substance or mixture : Mixture

**Ingredients and composition**

| Ingredients                | CAS Number | Weight % | Component  |
|----------------------------|------------|----------|------------|
| 1-Methoxypropan-2-ol       | 107-98-2   | 40-87    | All colors |
| 1-(or 2-)Ethoxypropan-2-ol | 1569-02-4  | 41       | SCUF-B     |

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### 4. FIRST AID MEASURES

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**4.1. Description of 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.
- 4.2. Most important symptoms and effects, both acute and delayed  
Ink contact with skin may cause irritation, swelling or redness.
- 4.3. Indication of any immediate medical attention and special treatment needed  
In case of skin or eye contamination treat as under First Aid Measures.

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## 5. FIRE-FIGHTING MEASURES

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- 5.1. Suitable extinguishing media  
: In case of fire, use foam, dry, chemical powder or carbon dioxide.
- 5.2. Specific hazards arising from the substance or mixture  
: CO<sub>2</sub>, CO, NO<sub>x</sub>, and SO<sub>x</sub>, is produced after combustion.
- 5.3. Special protective equipment and precautions for fire-fighters  
: None

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## 6. ACCIDENTAL RELEASE MEASURES

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- 6.1. Personal precautions, protective equipment and emergency procedures  
: Use proper ventilation. Use eye and skin protection.
- 6.2. Environmental precautions  
: Do not dispose of waste to the sewer.
- 6.3. Methods and material for containment and cleaning up  
: Absorb spill with material (cloth or paper), then place in a chemical waste containers.

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## 7. HANDLING AND STORAGE

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- 7.1. Precautions for safe handling  
: Avoid rough handling or dropping.  
Wear protective gloves/protective clothing/eye protection/face protection.
- 7.2. Conditions for safe storage, including any incompatibilities  
: Store in a dry, cool, well-ventilated location, away from possible all source of ignition.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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- 8.1. Control parameters  
Occupational exposure limits

| Component            | Threshold limit values      |
|----------------------|-----------------------------|
|                      | ACGIH                       |
| 1-Methoxypropan-2-ol | TWA 100 ppm<br>STEL 150 ppm |

- 8.2. Appropriate engineering controls  
: In the case of the handling of the room to install a closed reduction or local exhaust sources.  
Electrical equipment to be used in handling the location could be explosion-proof structure, equipment is static electricity measures.
- 8.3. Individual protection measures, such as personal protective equipment.  
: ~~Wear protective gloves/protective clothing/eye protection/face protection.~~

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

|  |   |
|--|---|
| (a) Appearance                                   | : Liquid<br>[Color] Black, Green  |
| (b) Odor   | : Organic solvent odor  |
| (c) Odor threshold                               | : No data   |
| (d) pH   | : Not applicable  |
| (e) Melting point/freezing point                 | : -95 degrees Celsius (1-Methoxypropan-2-ol)<br>-90 degrees Celsius (1-(or 2-) Ethoxypropan-2-ol)                     |
| (f) Initial boiling point/boiling range          | : 121 degrees Celsius (1-Methoxypropan-2-ol )<br>132 degrees Celsius (1-(or 2-) Ethoxypropan-2-ol)                    |
| (g) Flash point                                  | : 32 degrees Celsius (1-Methoxypropan-2-ol )<br>35 degrees Celsius (1-(or 2-) Ethoxypropan-2-ol)                      |
| (h) Evaporation rate                             | : No data   |
| (i) Flammability (solid, gas)                    | : Flammable   |
| (j) Upper/lower flammability or explosive limits | : LEL 2.7 vol%, UEL 11.8 vol% (1-Methoxypropan-2-ol )<br>LEL 1.3 vol%, UEL 12.0 vol%<br>(1-(or 2-) Ethoxypropan-2-ol) |
| (k) Vapor pressure                               | : 893 Pa (at 20 degrees Celsius, 1-Methoxypropan-2-ol)<br>10 mmHg (1-(or 2-) Ethoxypropan-2-ol)                       |
| (l) Vapor density                                | : 3.11 (1-Methoxypropan-2-ol )<br>No data(1-(or 2-) Ethoxypropan-2-ol)  |
| (m) Relative density                             | : 0.94-0.96 (at 20 degrees Celsius)   |
| (n) Solubility                                   | : Insoluble in water  |
| (o) Partition coefficient: n-octanol/water       | : log Pow=-0.49 (1-Methoxypropan-2-ol )<br>No data (1-(or 2-) Ethoxypropan-2-ol)                                      |
| (p) Auto-ignition temperature                    | : No data   |
| (q) Decomposition temperature                    | : No data   |
| (r) Viscosity                                    | : 3.0-6.8 mPa·s (at 20 degrees Celsius)   |
| 9.2. Other information                           | : None  |

## 10. STABILITY AND REACTIVITY

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| 10.1. Reactivity                         | : This material is stable.   |
| 10.2. Chemical stability                 | : This material is stable.   |
| 10.3. Possibility of hazardous reactions | : This material is stable.   |
| 10.4. Conditions to avoid                | : Direct sunshine, the high temperature and source of ignition.  |
| 10.5. Incompatible materials             | : Strong oxidizing agents and reducing agents.   |
| 10.6. Hazardous decomposition products   | : Heating can release vapors which can be ignited.<br>: Burning produces obnoxious and toxic fumes, carbon oxides. |

## 11. TOXICOLOGICAL INFORMATION

~~There is no data available on the mixture itself.~~

**11.1. Information on toxicological effects**

|                           |                               |                                 |
|---------------------------|-------------------------------|---------------------------------|
| Skin corrosion/irritation | : 1-Methoxypropan-2-ol        | : Category 3                    |
| Eye damage/irritation     | : 1-Methoxypropan-2-ol        | : Category 2B                   |
|                           | : 1-(or 2-)Ethoxypropane-2-ol | : Category 2B                   |
| Specific target organ     | : 1-Methoxypropan-2-ol        | : Category 3 (narcotic effects) |
| toxicity                  | : 1-(or 2-)Ethoxypropan-2-ol  | : Category 3 (narcotic effects) |
| (single exposure)         |                               |                                 |

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**12. ECOLOGICAL INFORMATION**

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There is no data available on the mixture itself.

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|-------------------------------------|---------------------|
| 12.1. Ecotoxicity                   | : No data available |
| 12.2. Persistence and degradability | : No data available |
| 12.3. Bioaccumulative potential     | : No data available |
| 12.4. Mobility in soil              | : No data available |
| 12.5. Other adverse effects         | : None              |

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**13. DISPOSAL CONSIDERATIONS**

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**13.1. Waste treatment methods**

- Follow all regulations in your country.

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**14. TRANSPORT INFORMATION**

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| 14.1. UN number  | : 1993  |
| 14.2. UN proper shipping name  | : Flammable liquids, N.O.S. (1-Methoxy-propan-2-ol) |
| 14.3. Transport hazard class(es)   | : 3   |
| 14.4. Packing group  | : III   |
| 14.5. Environmental hazards  | : Not applicable                                    |
| 14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | : Not applicable                                    |
| 14.7. Special precautions for user   | : Not applicable                                    |

The above mentioned information is for ink.

Finished marker pen itself is not regarded as hazardous goods.

Ink below 10 ml per pen is absorbed in polyester filter reservoir inside of the pen.

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**15. REGULATORY INFORMATION**

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Safety, health and environmental regulations/legislation specific for the substance or mixture

- Follow all regulations in your country.

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**16. OTHER INFORMATION**

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International GHS conformity.

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