

SAFETY DATA SHEET

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 SDS No. : AI-004
 Version : 001



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 : FRIXION light
 Product code : SW-FL-BL-L/G/P/Y/O/SL/SG/SP/SV/SY-A
 SW-FLW-NPBL-L/Y
 Mixture name : FSL-L/G/P/Y/ON/SL/SG/SP/SV/SY

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

Environmental Hazards

Hazards to the aquatic environment : Category 2
 short-term (acute)

2.2. GHS label elements

Hazard pictogram : None
 Signal word : None
 Precautionary statements

Prevention

P273 : Avoid release to the environment.

Disposal

P501 :Dispose of contents/ container in accordance with regulations.

2.3. Other hazards : None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Mixture : Mixture

Ingredients and composition

Ingredients	CAS Number	Weight %	Component
Additive	Confidential	0.20%	All colors

4. FIRST AID MEASURES

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

There is no specific antidote. Treat symptoms.

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.

5. FIRE-FIGHTING MEASURES

- 5.1. Suitable extinguishing media : Not classed as flammable.
In case of fire, use foam, dry, chemical powder or carbon dioxide.
- 5.2. Special hazards arising from the substance or mixture : CO₂, CO, NO_x, and SO_x, is produced after combustion.
- 5.3. Special protective equipment and precautions for fire-fighters :None

6. ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions : 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.

7. HANDLING AND STORAGE

- 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1. Control parameters : Not available
- 8.2. Appropriate engineering controls : No special controls are needed.
- 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 | : Viscosity liquid
[Color] Black, Red, Blue, Green, Light-green,
Light-blue, Pink, Light-pink, Orange,
Yellow, Violet, Brown |
| (b) Odor | : Slight characteristic |
| (c) Odor threshold | : No data |
| (d) pH | : 7.0-6.0 |
| (e) Melting point/freezing point | : No data |
| (f) Boiling point/boiling range | : About 100 degrees Celsius |
| (g) Flash point | : Boils without flashing |
| (h) Evaporation rate | : No data |
| (i) Flammability (solid, gas) | : None |
| (j) Upper/lower flammability or
explosive limits | : None |
| (k) Vapor pressure | : No data |
| (l) Vapor density | : No data |
| (m) Relative density | : 1.11± 0.01 (at 20 degrees Celsius) |
| (n) Solubility(ies) | : Soluble in water |
| (o) Partition coefficient:
n-octanol/water | : Not available |
| (p) Auto-ignition temperature | : Not Auto-ignition |
| (q) Decomposition temperature | : No data |
| (r) Viscosity | : 12.0-18.0 mPa·s (at 20 degrees Celsius) |

9.2. Other information : None

10. STABILITY AND REACTIVITY

- | | |
|--|----------------------------|
| 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 | : This material is stable. |
| 10.5. Incompatible materials | : No data |
| 10.6. Hazardous decomposition products | : No data |

11. TOXICOLOGICAL INFORMATION

There is no data available on the mixture itself.

11.1. Information on toxicological effects

- | | |
|---------------------------|---------------------|
| Acute toxicity (Oral) | : No data available |
| Skin corrosion/irritation | : No data available |
| Eye damage/irritation | : No data available |
| Sensitization | : No data available |
| Germ cell mutagenicity | : No data available |
| Carcinogenicity | : No data available |
| Reproductive toxicity | : No data available |

Specific target organ toxicity Single exposure	: No data available
Specific target organ toxicity Repeated exposure	: No data available
Aspiration hazard	: No data available

12. ECOLOGICAL INFORMATION

There is no data available on the mixture itself.

12.1. Ecotoxicity

12.1.1. Hazardous to the aquatic environment, : Additive : Category 1
short-term (acute)

12.1.2. Hazardous to the aquatic environment, : Not applicable
long-term (chronic)

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

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

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

14. TRANSPORT INFORMATION

14.1. UN number : Not applicable

14.2. UN proper shipping name : Not applicable

14.3. Transport hazard class(es) : Not applicable

14.4. Packing group : Not applicable

14.5. Environmental hazards : Not applicable

14.6. Transport in bulk according to Annex II : Not applicable
of MARPOL 73/78 and the IBC Code

14.7. Special precautions for user : Not applicable

15. REGULATORY INFORMATION

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

- Follow all regulations in your country.

16. OTHER INFORMATION

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.