

# SAFETY DATA SHEET

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 SDS No.: RI-057  
 Version: 002



12/4/2018

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

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

### 1.1. Identification of the substance or preparation

Product name : FRIXION light  
 Product code : SW-FL-P/O/Y/G/L/V

Pilot Frixion Light  
 Erasable Highlighters

Preparation name : FSL-P/O/Y/G/L/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 EUROPE

Address : PAE de la Caille 74350 ALLONZIER-LA-CAILLE (France)

Telephone number : +33 (0)4 50 08 33 00

Working hours (from 8.30am to 12.30pm and from 01.30pm to 05.30pm  
 :04.00pm on Friday-French time)

Facsimile number : +33 (0)4 50 46 43 59

e-mail address : pilotfrance@piloteurope.com

### 1.4. Emergency telephone number : +33 (0)1 45 42 59 59

Association /Organization :ORFILA /INRS <http://www.centres-antipoison.net>

## 2. HAZARDS IDENTIFICATION

Based on the law and regulation in Japan

Physical /Chemical hazards : Not applicable

Environmental hazards : Not applicable

Effect of exposure : Not applicable

Symptom of exposure

Inhalation : None

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.

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

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Based on the law and regulation in Japan

Risk phrases : None  
Safety phrases : None  
Additional information : None

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### 4. FIRST AID MEASURES

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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.

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### 5. FIRE-FIGHTING MEASURES

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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 : No data

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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] Pink, Orange, Yellow, Green, Blue, Violet

Odor : Slight characteristic

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

pH : 6.5-7.5

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 : 1.07-1.09 (at 20 degrees Celsius)

Solubility : Not applicable

Viscosity : 15.0-20.0 mPa · s (at 20 degrees Celsius)  
Vapor density : No data  
Evaporation rate : No data

9.3. Other information : None

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## 10. STABILITY AND REACTIVITY

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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

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## 11. TOXICOLOGICAL INFORMATION

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For ink unless otherwise specified

11.1. Toxicokinetics, metabolism and distribution : No data  
11.2. Acute effects (acute toxicity, irritation and corrosivity)  
: Acute toxicity Triethanolamine LD<sub>50</sub> 4.92ml/kg(rat)  
11.3. Sensitization : No data  
11.4. Repeated dose toxicity : No data  
11.5. CMR (carcinogenity, mutagenicity, and toxicity for reproduction) : No data

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## 12. ECOLOGICAL INFORMATION

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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

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## 13. DISPOSAL CONSIDERATIONS

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- 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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Suit a standard of "Safety of toys" Part3 (EN71-3)

Detachable metallic elements must contain...

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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