

Material Safety Data Sheet

FRIXION LIGHT

Date of issue (ex Japan): 20 August, 2010 – Version 2

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION

| | | |
|-----|--|-------------------------------------|
| 1.1 | Identification of the substance or preparation | |
| | Product Name | FRIXION Light |
| | Product Code | SW-FL-P/O/Y/G/L/V SFL-10SL-P/O/Y |
| | Preparation Name | FSL-P/O/Y/G/L/V |
| 1.2 | Use of the preparation | Ink for writing instrument |

2. HAZARDS IDENTIFICATION

| | |
|---------------------|---|
| 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. |

3. FIRST AID MEASURES

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|----------------------|--|
| Inhalation | Remove subject to ventilated fresh air. Consult doctor if necessary. |
| Ingestion | Refer for medical attention. |
| Skin Contact | Wash the affected area under tepid running water using a mild soap. Refer for medical attention if irritation continues. |
| Eye Contact | Gently rinse the affected eyes with clean water for at least 15 minutes. Refer for medical attention if irritation continues. |
| First aid facilities | Ensure eyewash and water services 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. |

4. FIRE-FIGHTING MEASURES

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|-----|---|---|
| 4.1 | Suitable extinguishing media | Not classed as flammable. In case of fire, use water spray, foam, dry chemical powder or carbon dioxide. |
| 4.2 | Extinguishing media which shall not be used for safety | None |
| 4.3 | Special exposure hazards arising from the substance or preparation itself, combustion products. | CO ₂ , CO, NO _x , and SO _x are produced after combustion. |
| 4.4 | Special protective equipment for fire-fighters | Not required. |
| 4.5 | Additional information | None |

5. ACCIDENTAL RELEASE MEASURES

| | | |
|-----|---------------------------|--|
| 5.1 | Personal precautions | Use proper ventilation. Use eye and skin protection. |
| 5.2 | Environmental precautions | Keep away from drains, surface and ground waters and soil, possible need to alert the neighbourhood. |
| 5.3 | Methods for cleaning up | Absorb spill with material (cloth or paper), then place in chemical waste containers. |
| 5.4 | Additional information | None. |

6. HANDLING AND STORAGE

| | | |
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| 6.1 | Handling: | Avoid rough handling or dropping |
| | 6.1.1 Protective measures | Not required in normal use. |
| | 6.1.2 Measures to prevent aerosol and dust generation | Not required in normal use. |
| | 6.1.3 Measures required to protect the environment | Not required in normal use. |
| | 6.1.4 Specific requirements or handling rules | None |
| | 6.1.5 Precautions against fire and explosion | Not required in normal use. |
| 6.2 | Storage | Store in a dry, cool, well-ventilated location. |
| 6.3 | Specific use(s) | Not use it except the ink for writing instruments |

7. EXPOSURE CONTROLS / PERSONAL PROTECTION

| | | | |
|-----|--|------------------------|-----------------------------------|
| 7.1 | Exposure limit values | No data | |
| | 7.1.1 Occupational exposure controls | Not available | |
| | 7.1.2 Biological limit values | Not available | |
| | 7.1.3 DNEL and PNEC – value(s) as applicable | No data | |
| 7.2 | Exposure controls | | |
| | 7.2.1 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 |
| | 7.2.2 Environmental exposure controls | | |
| | | | No data |

8. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|------------------------------------|--|--|--|
| For ink unless otherwise specified | | | |
| 8.1 | General information | | |
| | Appearance | Viscosity liquid (Colour) Pink, Orange, Yellow, Green. Blue, Violet | |
| | Odour | Slight characteristic | |
| 8.2 | 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 allocated | |
| | Water solubility | Soluble | |
| | Partition coefficient: n-octanol/water | Not available | |
| | Viscosity | 15.0 - 20.0 mPa's (at 20 degrees Celsius) | |
| | Vapour Density | No data | |
| | Evaporation rate | No data | |
| 8.3 | Other information | | |
| | | None | |

9. STABILITY AND REACTIVITY

| | | |
|-----|----------------------------------|--------------------------|
| 9.1 | Conditions to avoid | This material is stable. |
| 9.2 | Materials to avoid | This material is stable. |
| 9.3 | Hazardous decomposition products | No data. |

10. TOXICOLOGICAL INFORMATION

| | | |
|-------------------------------------|--|-----------------------|
| For ink unless otherwise specified. | | |
| 10.1 | Toxicokinetics, metabolism and distribution. | No data. |
| 10.2 | Acute effects (acute toxicity, irritation and corrosivity) | |
| | Triethanolamine | LD50 4.92 ml/kg (rat) |
| 10.3 | Sensitisation | No data. |
| 10.4 | Repeated dose toxicity | No data. |
| 10.5 | CMR (carcinogenicity, mutagenicity, and toxicity for reproduction) | No data. |

11. ECOLOGICAL INFORMATION

| | | |
|------|-------------------------------|----------|
| 11.1 | Ecotoxicity | No data. |
| 11.2 | Mobility | No data. |
| 11.3 | Persistence and degradability | No data. |
| 11.4 | Bioaccumulative potential | No data. |
| 11.5 | Results of PBT assessment | No data. |
| 11.6 | Other adverse effects | None |

12. DISPOSAL CONSIDERATIONS

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

13. TRANSPORT INFORMATION

| | | |
|------|------------------------------|----------------|
| 13.1 | UN number | Not applicable |
| 13.2 | Class | Not applicable |
| 13.3 | Proper shipping name | Not applicable |
| 13.4 | Packing group | Not applicable |
| 13.5 | Marine pollutant | Not applicable |
| 13.6 | Other applicable information | None |

14. REGULATORY INFORMATION

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|---|
| Suit a standard of "Safety of toys" Part 3 (EN71-3) |
| Detrimental metallic elements are not containing. |
| (Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium) |

15. 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.

END OF SDS

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