

SAFETY DATA SHEET

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 SDS No. : AI-046
 Version : 002



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 Fine liner
 Product code : SW-FF-B/R/L/G/LG/LB/P/BP/O/Y/V/BN(A)
 Mixture name : FFL-B/R/L/G/LG/LB/P/BP/O/Y/V/BN

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

Health Hazards

Acute toxicity (Oral) : Category 5 (FFL-B/R/L/V/BN)
 Acute toxicity (Dermal) : Category 5 (FFL-B/R/L/LB/P/O/V/BN)
 Serious eye damage/eye irritation : Category 1 (All Colors)

2.2. GHS label elements

Hazard pictogram



Signal word : Danger

Hazard statements

H303 : May be harmful if swallowed. (FFL-B/R/L/V/BN)
 H313 : May be harmful in contact with skin. (FFL-B/R/L/LB/P/O/V/BN)
 H318 : Causes serious eye damage.

Precautionary statements

Prevention

P280 : Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response

P305+ P351+ P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

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P310 : Immediately call a POISON CENTER/doctor.

P312 : Call a POISON CENTER/doctor if you feel unwell.

(FFL-B/R/L/LB/P/O/V/BN)

Storage : None

Disposal : None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Mixture : Mixture

Ingredients and composition

Ingredients	CAS Number	Weight %	Component
Sodium meta tungstate	12141-67-2	6.5~7.5%	FFL-B/R/L/V/BN
		6.0%	FFL-LB/P/O
		3.0~5.0%	FFL-G/LG/BP/Y
Preservative A	3811-73-2	0.024%	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 : CO₂, CO, NO_x, and SO_x, is produced after combustion.
the substance or mixture5.3. Special protective equipment :None
and precautions for
fire-fighters

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 container.

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. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

(a) Appearance

: Liquid

[Color] Black, Red, Blue, Green, Light Green,
Light Blue, Pink, Baby Pink, Orange,
Yellow, Violet, Brown.

(b) Odor

: Slight characteristic

(c) Odor threshold

: No data

(d) pH

: 4.5-5.5

(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

: 1.106-1.159 (at 20 degrees Celsius)

(n) Solubility

: Soluble in water

(o) Partition coefficient:

: Not available

n-octanol/water

(p) Auto-ignition temperature

: Not Auto-ignition

(q) Decomposition temperature

: No data

(r) Viscosity

: 8.0-11.0 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 : High temperature.
 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)	: Sodium meta-tungstate	: Category 4 LD ₅₀ ≥ 1715mg/kg (rat)
	Preservative A	: Category 4 LD ₅₀ ≥ 1500mg/kg (rat)
Acute toxicity (Dermal)	: Preservative A	: Category 4 LD ₅₀ ≥ 1800mg/kg (rat)
Serious eye damage/eye irritation	: Sodium meta-tungstate	: Category 1

12. ECOLOGICAL INFORMATION

There is no data available on the mixture itself.

12.1. Ecotoxicity

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

End of SDS