Product Name: SUPER COLOR – Silver Extra Fine SDS No.:SI-066 Page 1/5

Fine, Medium, Broad, Super Jumbo

SILVER MARKER-EF, Medium

SAFETY DATA SHEET

Date of Issue: February 1, 2010

SDS No.: SI-066 Version: 002



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 : SUPER COLOR-Silver Extra Fine / SILVER MARKER-EF

SUPER COLOR-Silver Fine

SUPER COLOR-Silver Medium / SILVER MARKER-Medium

SUPER COLOR-Silver Broad

SUPER COLOR-Silver Super Jumbo

Product code : SC-S-EF

SC-S-F

SC-S-M / SC-SILVER(A)

SC-S-B SC-S-J

Preparation name : SC-PM-S(EX)

1.2. Use of the preparation : Ink for writing instrument

1.3. Company identification e-mail address

Name of manufacture : PILO

: 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

Based on the law and regulation in Japan

Physical /Chemical hazards : Flammable liquid.

Acute toxic substance.

Environmental hazards : Not applicable.

Effect of exposure : Not applicable.

Symptom of exposure

Inhalation : Intentional exposure to ink vapors may cause respiratory irritation.

Ingestion : May cause upset stomach.

Skin contact : Ink contact with skin may cause irritation, swelling, or redness.

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It is not expected to cause an allergic skin reaction.

Eye contact : Ink contact with eye may be mildly irritating.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Based on the law and regulation in Japan

For ink unless otherwise specified

Ingredients	CAS No.	EINECS Number	Weight %
Methylcyclohexane	108-87-2	203-624-3	15
Medium aliphatic Solvent	64742-88-7	265-191-7	- 1
Light aromatic Solvent	64742-95-6	265-199-0	
Petroleum Solvent	64742-46-7	265-148-2	5-6
Ethylcyclohexane	1678-91-7	216-835-0	40
Aluminium powder (stabilised)	7429-90-5	231-072-3	10-15

4. 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 evewash 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.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media : In case of fire, use water spray, foam, dry,

chemical powder or carbon dioxide.

5.2 Extinguishing media which shall not be used for : None.

safety.

5.3 Special exposure hazards arising from the CO₂, CO, NO_x, and SO_x, are produced after

substance or preparation itself, combustion combustion.

products

5.4 Special protective equipment for fire-figters. : Not required.

5.5 Additional information :None.

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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 for cleaning up : Absorb spill with material (cloth or paper), then place in a

chemical waste containers.

6.4 Additional information : None.

7. HANDLING AND STORAGE

7.1. Handling Avoid rough handling or dropping.

7.1.1 Protective measures
7.1.2 Measures to prevent aerosol and dust generation
7.1.3 Measures required to protect the environment
Not required in normal use.
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, away from possible all

source of ignition.

7.3. Specific use(s) : Not use it except the ink for writing instruments.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Exposure limit values : Not available.

8.1.1 Occupational exposure controls.
8.1.2 Biological limit values.
8.1.3 DNEL and PNEC-value(s) as applicable
Not available.
No data.

8.2. Exposure controls

8.2.1. Occupational exposure controls

a) Respiratory protection
b) Hand protection
c) Eye protection
d) Skin protection
i) Not required in normal use
ii) Not required in normal use
iii) Not required in normal use

8.2.2. Environmental exposure controls

Methylcyclohexane : 400 ppm Aluminium powder (stabilised) : 10 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

For ink unless otherwise specified

9.1. General information

Appearance : liquid

[Color] Silver

Odor : Organic solvent odor

9.2. Important health, safety and environmental information

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PH : Not applicable

Boiling point / boiling range : 100.9 degrees Celsius (Methylcyclohexane)
Flash point : -11.5 degrees Celsius (Methylcyclohexane)

Flammability (solid, gas) : Flammable

Explosive properties : None Oxidizing properties : None

Vapor pressure : 6.17 kPa (at 20 degrees Celsius, Methylcyclohexane)

Relative density : 0.895 (at 20 degrees Celsius)

Solubility : Not applicable
Water solubility : Insoluble
Partition coefficient: n-octanol / water : No data

Viscosity : 14.0 mPa·s (at 20 degrees Celsius)

Vapor density : 3.87 (at 20 degrees Celsius, Methylcyclohexane)

Evaporation rate : No data

9.3. Other information : None.

10. STABILITY AND REACTIVITY

10.1. Conditions to avoid : Fire or intense heat may cause violent rupture of

packages.

: Take precautionary measures against static

discharges.

10.2. Materials to avoid : Strong oxidizing agents and reducing agents.

10.3. Hazardous decomposition products : Heating can release vapours which can be ignited.

: Burning produces obnoxious and toxic fumes, carbon

oxides.

11. TOXICOLOGICAL INFORMATION

For ink unless otherwise specified

11.1 Toxicokinetics, metabolism and distribution : No data.

11.2 Acute effects (acute toxicity, irritation and corrosivity)

Medium aliphatic Solvent

: Acute toxicity Methylcyclohexane : LD₅₀ 41,500 mg/m³/2hrs (mouse inhalation)

: LD₅₀ 4,000 mg/kg (rabbit oral)
 : LD₅₀ 2,250 mg/kg (mouse oral)
 : LD₅₀ 47,400 mg/kg (rat oral)
 : LD₅₀ 5,000 mg/kg (rat oral)

Petroleum Solvent : LD₅₀ 5 g/kg (rat oral)

11.3 Sensitization : No data.
11.4 Repeated dose toxicity : No data.

11.5 CMR (carcinogenicity, mutagenicity, and toxicity for reproduction) : No data.

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity: No data.12.2. Mobility: No data.12.3. Persistence and degradability: No data.

Ethylcyclohexane

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12.4. Bioaccumulative potential
12.5. Results of PBT assessment
12.6. Other adverse effects
No data.
None.

13. DISPOSAL CONSIDERATIONS

- · Follow all regulations in your country.
- · Do not burn when empty.

14. TRANSPORT INFORMATION

For ink unless otherwise specified

14.1.1 UN number : 1993. 14.1.2 Class : 3.

14.2.1 Proper shipping name
14.3.1 Packing group
14.4.1 Marine pollutant
Not applicable.
Not applicable.

14.5.1 Other applicable information : None.

15. REGULATORY INFORMATION

· 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