

Product Name : SUPER COLOR – Silver Extra Fine      SDS No.:RI-082  
 Fine, Medium, Broad, Super Jumbo

Page 1/5

## SAFETY DATA SHEET

Date of Issue: November 17, 2009  
 SDS No.: RI-082  
 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  
 SUPER COLOR-Silver Fine  
 SUPER COLOR-Silver Medium  
 SUPER COLOR-Silver Broad  
 SUPER COLOR-Silver Super Jumbo

Product code : SC-S-EF  
 SC-S-F  
 SC-S-M  
 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 / 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 : Intentional exposure to ink vapors may cause respiratory irritation.

Product Name : SUPER COLOR – Silver Extra Fine  
Fine, Medium, Broad, Super Jumbo

SDS No.:RI-082

Page 2/5

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. 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 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.

### 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 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.

Product Name : SUPER COLOR – Silver Extra Fine      SDS No.:RI-082      Page 3/5  
 Fine, Medium, Broad, Super Jumbo

## 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 : 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 , 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. : 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 in normal use
- b) Hand protection : Not required in normal use
- c) Eye protection : Not required in normal use
- d) Skin protection : Not required in normal use
- 8.2.2. Environmental exposure controls
- Methylcyclohexane : 400 ppm
- Aluminium powder (stabilised) : 10 mg/m<sup>3</sup>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

For ink unless otherwise specified

### 9.1. General information

- Appearance : liquid  
 [Color] Silver
- Odor : Organic solvent odor

Product Name : SUPER COLOR – Silver Extra Fine                      SDS No.:RI-082                      Page 4/5  
 Fine, Medium, Broad, Super Jumbo

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

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)	:
: Acute toxicity    Methylcyclohexane	: LD <sub>50</sub> 41,500 mg/m <sup>3</sup> /2hrs (mouse inhalation) : LD <sub>50</sub> 4,000 mg/kg (rabbit oral) : LD <sub>50</sub> 2,250 mg/kg (mouse oral)
Ethylcyclohexane	: LD <sub>50</sub> 47,400 mg/kg (rat oral)
Medium aliphatic Solvent	: LD <sub>50</sub> 5,000 mg/kg (rat oral)
Petroleum Solvent	: LD <sub>50</sub> 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.
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Product Name : SUPER COLOR – Silver Extra Fine  
Fine, Medium, Broad, Super Jumbo

SDS No.:RI-082

Page 5/5

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.
- Do not burn when empty.

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### 14. TRANSPORT INFORMATION

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14.1.1 UN number	: Not applicable.
14.1.2 Class	: Not applicable.
14.2.1 Proper shipping name	: Not applicable.
14.3.1 Packing group	: Not applicable.
14.4.1 Marine pollutant	: Not applicable.
14.5.1 Other applicable information	: None.

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### 15. REGULATORY INFORMATION

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- Follow all regulations in your country.

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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