Product Name : LETTERING PEN SDS No.:RI -113 Page 1/5

SAFETY DATA SHEET

Date of Issue: April 7, 2014 SDS No.: RI-113 Version: 001



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 : LETTERING PEN
Product code : SWN-DRL-10-B/R/L

SWN-DRL-20-B/R/L SWN-DRL-30-B/R/L

Mixture name : SG-DS-B/R/L

1.2. Use of the mixture : Ink for writing instrument

1.3. Company identification e-mail address

Name of manufacture

: PILOT CORPORATION OF EUROPE

/ supplier

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

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

Working hours (from $8.30\mathrm{am}$ to $12.30\mathrm{pm}$ and from $01.30\mathrm{pm}$ to $05.30\mathrm{pm}$

: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.

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.

Product Name : LETTERING PEN SDS No.:RI -113 Page 2/5

3. COMPOSITION / INFORMATION ON INGREDIENTS

Based on the law and regulation in Japan

For ink unless otherwise specified

Ingredients	CAS Number	EINECS Number	Weight %	Component
Ethylene glycol	102-71-6	203-049-8	5.0-10.0	All Colors
Isopropyl alcohol	67-63-0	200-661-7	0.5-1.5	All Colors
Carbon black	1333-86-4	215-609-9	6.8	SG-DS-B
29H,31H-phthalocyaninato(2-)-	147-14-8	205-685-1	6.8	SG-DS-L
N29,N30,N31,N32 copper				

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 : 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 : None

safety

5.3. Special exposure hazards arising from the Substance or mixture itself, combustion products combustion. CO₂, CO, NO_x, and SO_x are produced after combustion.

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

5.5. Additional information : None

6. ACCIDENTAL RELEASE MEASURES

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

Product Name : LETTERING PEN SDS No.:RI -113 Page 3/5

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.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Exposure limit values : No data

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 : Not required

b) Hand protectionc) Eye protectionWear suitable gloves.Wear eye protection.

d) Skin protection : Wear suitable protective clothing.

8.2.2. Environmental exposure controls

: ACGIH TLV-TWA Ethylene glycol : 50 ppm

Isopropyl alcohol : 200 ppm Carbon black : 3.5 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

For ink unless otherwise specified

9.1. General information

Appearance : Viscosity liquid

[Color] Black, Red, Blue

Odor : Slight characteristic

9.2. Important health, safety and environmental information

pH : 8-9

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 : 1.08-1.10 (at 20 degrees Celsius)

Solubility : Not applicable

Water solubility : Soluble

Partition coefficient: n-octanol / water : Not available

Product Name : LETTERING PEN SDS No.:RI -113 Page 4/5

Viscosity : 3.5-4.3 mPa·s (at 20 degrees Celsius)

Vapor density : No data Evaporation rate : No data

9.3. Other information : None

10. STABILITY AND REACTIVITY

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

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 Ethylene glycol LD₅₀ 8,540 mg/kg (rat)

Isopropyl alcohol LD₅₀ 4,000-10,200 mg/kg (rat)

Carbon black LD₅₀ 15,400 mg/kg (rat) 29H,31H-phthalocyaninato(2-)- LD₅₀>15,400 mg/kg (rat)

N29,N30,N31,N32 copper

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

11.5. CMR (carcinogenicity, mutagenicity, and toxicity for reproduction)

: Carcinogenicity Carbon black IARC Group 2B

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

- · Follow all regulations in your country.
- · Not hazardous waste.

14. TRANSPORT INFORMATION

14.1. UN number: Not applicable14.2. Class: Not applicable14.3. Proper shipping name: Not applicable14.4. Packing group: Not applicable14.5. Marine pollutant: Not applicable

14.6. Other applicable information : None

Product Name : LETTERING PEN SDS No.:RI -113 Page 5/5

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