0SAFETY DATA SHEET

Date of Issue: February 3, 2017
SDS No.: AP-005
Version: 001

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

This product is a writing instrument to be recognized as Article.
This SDS is prepared regarding ink contained in an Article.

1.1. Product identifier

Product name	: Ball Point Pen Refill
Product code	: RFJS-GP-F-BLB/BLR/BLL-A RFJS-GP-M-BLB-/BLR/BLL/BLG/BLV-A RFJ-GP-F-BLB/BLR/BLL/BLG-A RFJ-GP-M-BLB/BLR/BLL/BLG-A RFJ-3F-BL-B/R/L/G RFJ-3M-BL-B/R/L/G RFJ-3F-BL-B/R/L-A RFJ-3M-BL-B/R/L-A
Mixture name	: Ball Point Pen Refill-B/R/L/G/V

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	: Ink for writing instrument

1.3. Details of the supplier of the safety data sheet

Name of manufacture / supplier	: PILOT Corporation
Address	: 6-21,Kyobashi 2-chome,Chouo-ku,Tokyo,104-8304,Japan
Telephone number	: 03-3538-3700 Working hours (from09.00am to 05.30pm)
Facsimile number	: 03-3538-3901
E-mail address	: ipp@pilot.co.jp

2. HAZARDS IDENTIFICATION

2.1. GHS Classification of the substance or mixture.

Acute toxicity(Oral)	: Category 4
Acute toxicity(Inhalation)	: Category 4
Eye Irritation	: Category 2

2.2. GHS label elements

Hazard Pictogram

Signal word : Warning

Hazard statement(s)

H302 : Harmful if swallowed.

H319 : Causes serious eye irritation
H332 : Harmful if inhaled.

Precautionary statement(s)

Prevention P270 : Do not eat, drink or smoke when using this product.
P273 : Avoid release to the environment.
P280 : Wear protective gloves/protective clothing/eye protection/face protection.

Response P301+P312 : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P304+P312 : IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P304+P340 : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 : If eye irritation persists: Get medical advice/attention.
P342+P311 : If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

2.3. Other hazards
: None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance or mixture : Mixture

Ingredients and composition

Ingredients	CAS No.	Weight %	Classification	Component
Benzyl alcohol	100-51-6	11-21	Acute Tox.4 H332 H302	All Colors
2-Phenoxyethanol	122-99-6	21-41	Acute Tox.4 H302 Eye Irrit.2 H319	All Colors
Coloring materials	Trade secret	15-40	Not Classified	All Colors
Others	Trade secret	remnant	Not Classified	All Colors

H302 Harmful if swallowed
H319 Causes serious eye irritation
H332 Harmful if inhaled

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 15 minutes.
And refer for medical attention if irritation continues.

4.2. Most important symptoms and effects, both acute and delayed
: No data

4.3. Indication of any immediate medical attention and special treatment needed
: Systemic poisoning : There is no specific antidote. Treat symptoms.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media
: Not classed as flammable.
In case of fire, use water spray, foam, dry, chemical powder or carbon dioxide.

5.2. Special hazards arising fromthe substance or mixture
: CO2, CO, NOx, and SOx, is produced after combustion.

5.3. Advice for fire-fighters
: Not required.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
: 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 containers.

6.4. Reference to other sections
: None.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling
: Avoid rough handling or dropping.

7.2. Conditions for safe storage, including any incompatibilities
: Should be Kept Tightly sealed and stored in doors out of direct sunlight.
Store in a dry, cool, well-ventilated location.
Avoid long storage periods since the product degrades with age.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

	ACGIH	
	Limit value-Eight hours	Limit value-Short term
Benzyl alcohol	No data.	No data.
2-Phenoxyethanol	No data.	No data.

8.2. Exposure controls
: Wear protective gloves / protective clothing /eye protection / face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

(a) Appearance	: Viscous liquid 〈Color〉 Black,Red,Blue,Green,Violet
(b) Odour	: Slight characteristic.
(c) Odour threshold	: No data.
(d) PH	: No data.
(e) Melting point / Freezing point	: No data.
(f) Boiling point / boiling range	: No data.
(g) Flash point	: 110 degrees Celsius.
(h) Evaporation rate	: None.
(i) Flammability (solid, gas)	: None.
(j) Upper/lower flammability or explosive limits	: No data.
(k) Vapor pressure	: No data.
(l) Vapor density	: No data.
(m) Relative density	: 1.1 (at 20 degrees Celsius)
(n) Solubility(ies)	: Not allocated.
(o) Partition coefficient: n-octanol / water	: Not available.
(p) Auto-ignition temperature	: No data.
(q) Decomposition temperature	: No data.
(r) Viscosity	: about＜35,000mPa・s ($1.7S^{-1}$;at 20 degrees Celsius)
(s) Explosive properties	: No data.
(t) Oxidising properties	: No data.

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
: No data

10.5. Incompatible materials
: Strong oxidizing and reducing agents.

10.6. Hazardous decomposition products
: No data.

11. TOXICOLOGICAL INFORMATION

Mixture : No data

11.1. Information on toxicological effects

Acute toxicity	Benzyl alcohol	LD50 rat 1230mg/kg
	2-Phenoxyethanol	LD50 rat 1260mg/kg

Irritation	Benzyl alcohol	Skin(rabbit):500mg/24H Mild
	2-Phenoxyethanol	Skin(rabbit): 500 mg/24H Mild
Corrosivity	No data	No data
Sensitization	No data	No data
Repeated dose toxicity	No data	No data
Carcinogenicity	Carbon black	IARC Class 2B
Mutagenicity	No data	No data
Toxicity for eproduction.	No data	No data

Although carbon black is classified with 2B by IARC
It was solution, and since it was not a granular material,it carried out the outside of classification.

12. ECOLOGICAL INFORMATION

Mixture : No data

12.1. Toxicity

Benzyl alcohol

Toxicity to fish LC50 - Leuciscus idus (Golden orfe) - > 100 mg/l - 96 h

2-Phenoxyethanol

Toxicity to fish LC50 - Leuciscus idus (Golden orfe) - > 100 mg/l - 96 h

12.2. Persistence and degradability

Benzyl alcohol

Biodegradability Biotic/Aerobic - Exposure time 28 d
Result: 92 - 96 % - Readily biodegradable.

2-Phenoxyethanol

Biodegradability Remarks: Readily biodegradable, according to appropriate OECD test.

12.3. Bioaccumulative potential

Benzyl alcohol No data

2-Phenoxyethanol No data

12.4. Mobility in soil

Benzyl alcohol No data

2-Phenoxyethanol No data

12.5. Results of PBT and vPvB assessment

Benzyl alcohol No data

2-Phenoxyethanol No data

12.6. Other adverse effects

Benzyl alcohol Toxic to aquatic life.

2-Phenoxyethanol No data

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

: Follow all regulations in your country.

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. Special precautions for user
: Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
: Not applicable.

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
: Follow all regulations in your country.

15.2. Chemical safety assessment
: No data.

16. OTHER INFORMATION

International GHS conformity.

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