

SAFETY DATA SHEET

Date of Issue: February 2, 2017
 SDS No.: AP-001
 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 : G-2
 : BL-G2-38-BL-B/R/L/G
 BL-G2-10-BL-B/R/L/G/V/P/DR/PG
 BL-G2-10-S8N-A
 BL-G2-5-BL-B/R/L/G/V
 BL-G2-7-BL-B/R/L/G/BB/V/P/DR/LB/O/HG/PG/SB/LG/CA
 BL-G2-7-S8N-A
 BLG27-AST-A(CB)
 BL-G2-7-BL-R/P-B
 BL-G27-NP-BL-L
 BLG27-VP-BL-MLB/MGB/MPB/MOB/SIB
 BLG27-VPBL-MLLB/MPP/MGLG/MOO
 BLG27DP-BL-BB/GG/VV/LBLB/PP
 BLG27MPBL-MBB/MLL/MVV/MDRDR/MPGPG
 BLG27SP-BL-BB/RR/LL/VV/PGPG/SISI
 BL-G2-7-BL-GD/SI/MG/ML/MP/MV
 BL-G2 7M-S8N-A
 BLS-G2-38-BL-B/R/L/G
 BLS-G2-5-BL-B/R/L/G/V
 BLS-G2-7-BL-B/R/L/G/BB/V/P/DR/LB/O/HG/PG/SB/LG/CA
 BLS-G2-10-BL-B/R/L/G/V/P/DR/PG
 Mixture name : G-2 B/R/L/G/BB/V/P/DR/LB/O/HG/PG/SB/LG/CA/
 GD/SI/MG/ML/MP/MV/W

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 : 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: Japanese time)
 Facsimile number : 03-3538-3909
 E-mail address : international@pilot.co.jp

2. HAZARDS IDENTIFICATION

2.1. GHS Classification of the substance or mixture.

Skin Sens : Category 1

2.2. GHS label elements

Pictogram



Signal word

Warning

Hazard statement(s)	H317	May cause an allergic skin reaction
Prevention	P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
	P272	Contaminated work clothing should not be allowed out of the workplace.
	P280	Wear protective gloves / protective clothing /eye protection / face protection.
Response	P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
	P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
	P321	Specific treatment (see ... on this label)
	P363	Wash contaminated clothing before reuse.
Storage		
Disposal	P501	Dispose of contents/container to ...

2.3. Other hazards None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance or mixture : Mixture

Ingredients and composition

Ingredients	CAS No.	% Weight	Classification	Component
Ethylene glycol	107-21-1	2-24	Acute Tbx.4 H302	All Colors
1,2-Benziso thiazolin-3-one	2634-33-5	<0.07	Skin Sens.1 H317 (Skin Sens. 1; H317: C ≥ 0,05 %)	All Colors
Coloring materials	Trade secret	2-8	Not Classified	All Colors
Others	Trade secret	remnant	Not Classified	All Colors

H302: Harmful if swallowed

H317: May cause an allergic skin reaction

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.
- 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. Extinguishing media : In case of fire, use water spray, foam, dry, chemical powder or carbon dioxide.
- 5.2. Special hazards arising from the substance or mixture : CO₂, CO, NO_x, and SO_x, is produced after combustion.
- 5.3. Advice for firefighters :None.

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.
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.
- 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
Ethylene glycol	20ppm	40ppm
1,2-Benzisothiazolin-3-one	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, Blue Black, Violet, Pink, Dark Red, Light Blue, Orange, Hunter Green, Peacock Green, Sky Blue, Lime Green, Caramel, Gold, Silver, Metallic Green, Metallic Blue, Metallic Pink, Metallic Violet, White
(b) Odor	: Slight characteristic.
(c) Odor threshold	: No data
(d) PH	: 7-10
(e) Melting point / Freezing point	: No data
(f) Boiling point / boiling range	: About 100 degrees Celsius.
(g) Flash point	: Not applicable
(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	: 1.10-1.12 (at 20 degrees Celsius)
(n) Solubility(ies)	: Soluble in water
(o) Partition coefficient: n-octanol / water	: Not available.
(p) Auto-ignition temperature	: Not Auto-ignition
(q) Decomposition temperature	: No data.
(r) Viscosity	: <4,000 mPa.s (1.9 s ⁻¹ ;at 20 degrees Celsius)
(s) Explosive properties	: No data.
(t) Oxidising properties	: No data.
9.2. Other infomation	: 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	: No data.
10.6. Hazardous decomposition products	: No data.

11. TOXICOLOGICAL INFORMATION

Mixture: No data

11.1. Information on toxicological effects		
(a) acute toxicity	Ethylene glycol	LD50 Oral-rat-4,700mg/kg LD50 Dermal-rabbit-10,626 mg/kg
	1, 2-Benzisothiazolin-3-one	LD50 Oral-rat-1,020mg/kg
(b) skin corrosion/ irritation	1, 2-Benzisothiazolin-3-one	Causes skin irritation.
(c) serious eye damage/ irritation	Ethylene glycol	Eyes-rabbit Result: Mild eye irritation-24h
(d) respiratory or skin sensitisation	1, 2-Benzisothiazolin-3-one	May cause allergic skin reaction
(e) germ cell mutagenicity	No data available	
(f) carcinogenicity	No data available	
(g) reproductive toxicity	Ethylene glycol	Laboratory experiments have shown teratogenic effects. Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.
(h) STOT-single exposure	No data available	
(i) STOT-repeated exposure	No data available	
(j) aspiration hazard	No data available	

12. ECOLOGICAL INFORMATION

Mixture: No data

12.1. Toxicity	Ethylene glycol	LC50 - Daphnia magna (Water flea) - 41.000 mg/l - 48 h EC50 - Daphnia magna (Water flea) - 74.000 mg/l - 24 h
	1, 2-Benzisothiazolin-3-one	LC50 - Oncorhynchus mykiss (rainbow trout) - 0,8 mg/l - 96,0 h EC50 - Daphnia magna (Water flea) - 4,4 mg/l - 48 h
12.2. Persistence and degradability	Ethylene glycol	no data available Ratio BOD/ThBOD 0,78 %

12.3. Bioaccumulative potential	Ethylene glycol	Does not bioaccumulate. Bioaccumulation other fish - 61 d- 50 mg/l
12.4. Mobility in soil	No data available	
12.5. Results of PBT and vPvB assessment	No data available	
12.6. Other adverse effects	Ethylene glycol	Harmful to aquatic life.
	1, 2-Benzisothiazolin-3-one	Very toxic to aquatic life.

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

SDS #

AP-001-BL-G2-GHS_170202

Applicable Items

Item Number	Prefix	Stock	Item Dsc
PIL77232	PIL	77232	REFILL,RBALL,G2,XF,BK,2PK
PIL77233	PIL	77233	REFILL,RBALL,G2,XF,BE,2PK
PIL77234	PIL	77234	REFILL,RBALL,G2,XF,RD,2PK
PIL77240	PIL	77240	REFILL,RBALL,G2,FN,BK,2PK
PIL77241	PIL	77241	REFILL,RBALL,G2,FN,BE,2PK
PIL77242	PIL	77242	REFILL,RBALL,G2,FN,RD,2PK
PIL77243	PIL	77243	REFILL,RBALL,G2,FN,GN,2PK
PIL77244	PIL	77244	REFILL,RBALL,G2,FN,PE,2PK