

SDS #

AP-001-BL-G2-GHS_170202

Applicable Items

| Item Number | Prefix | Stock | Itm 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 |

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 |
| Product code | 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 / supplier | : PILOT CORPORATION |
| 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 Tox.4 H302 | All Colors |
| 1,2-Benzisothiazolin-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-rat1,020mg/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