

**MATERIAL SAFETY DATA SHEET**

Date of Issue: June 24, 2010  
SDS No.: SP-066  
Version: 001

**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 : B2P(Gel)

Product code : B2P

**1.2. Use of the preparation : Ink for writing instrument****1.3. Company identification e-mail address**

Name of manufacture / supplier : PILOT CORPORATION OF AMERICA

Address : 3855 Regent Blvd., Jacksonville, FL 32224

Telephone number : 904-645-9999  
Working hours (from 08.30am to 04.30pm: EST)

Facsimile number : 904-996-2974

**2. HAZARDS IDENTIFICATION**

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.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

For ink unless otherwise specified

Ingredients	CAS Number	EINECS Number	Weight %	Component
Ethylene glycol	107-21-1	203-473-3	17-20	All Colors
Triethanolamine	102-71-6	203-49-8	1.3-7.0	All Colors

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#### 4. FIRST AID MEASURES

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- 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.
- 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.

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#### 5. FIRE-FIGHTING MEASURES

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- 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 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>, is produced after combustion.
- 5.4 Special protective equipment for fire-fighters. : Not required.
- 5.5 Additional information :None.

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#### 6. ACCIDENTAL RELEASE MEASURES

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- 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.

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#### 7. HANDLING AND STORAGE

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

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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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 : No data.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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For ink unless otherwise specified

9.1. General information

Appearance : Viscosity liquid  
< Color > Black , Red , Blue, Green

Odor : Slight characteristic.

9.2. Important health, safety and environmental information

PH : 8-10  
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 : 1.10-1.12 ( at 20 degrees Celsius)  
Solubility : Not allocated.  
Water solubility : Soluble.  
Partition coefficient: n-octanol / water : Not available.  
Viscosity : < 2,000 mPa · s (1.9 S<sup>-1</sup> ;at 20 degrees Celsius)  
Vapor density : No data.  
Evaporation rate : No data.

9.3. Other information : None.

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**10. STABILITY AND REACTIVITY**

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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.

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**11. TOXICOLOGICAL INFORMATION**

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For ink unless otherwise specified



11.1 Toxicokinetics, metabolism and distribution	: No data.
11.2 Acute effects (acute toxicity, irritation and corrosivity)	:
Ethylene glycol	LD50 4,700 mg/kg (rat)
Triethanolamine	LD50 8,680 mg/kg (rat)
11.3 Sensitization	: No data.
11.4 Repeated dose toxicity	: No data.
11.5 CMR (carcinogenity, mutagenicity, and toxicity for reproduction)	: No data.

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## 12. ECOLOGICAL INFORMATION

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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.

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## 13. DISPOSAL CONSIDERATIONS

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

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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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Suit a standard of "Safety of toys" Part3 (EN71-3)

Detrimental metallic elements are not containing.

(Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium)

Occupational Safety and Health Act ( The 57th 2)

government ordinance number 75 : Ethylene glycol

government ordinance number 381 : Triethanolamine

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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.



Items Applicable to SDS # AP-001-BL-G@-GHS\_170202

G2 + B2P Gel + Refills

UPC#	ITEM#	DESCRIPTION
22119	5609	G27 BAR-CODED BIN COUNTER DISPLAY
22168	5658	G2 PRO BAR-CODED BIN DISPLAY
23017	5673	G2-1 BLACK 48 PC BAR-CODED TUB
23046	5912	G2-3 ASSORTED ULTRA FINE 48 PC BC TUB
23721	5721	G2-5/7 12 DOZEN BAR CODED DISPLAY
23728	5728	G2 LIMITED ASST COUNTER DISPLAY
23733	5733	G2 FAMILY 26 DOZ PERM DISPLAY
28715	G27--BLKPNKBC	G27 BCA PNK BLK INK BC DOZ BOX
31002	G25--BLK	G2 GEL INK ROLLING BALL
31003	G25--BLU	G2 GEL INK ROLLING BALL
31004	G25--RED	G2 GEL INK ROLLING BALL
31005	G25--GRN	G2 GEL INK ROLLING BALL
31006	G25--PPL	G2 GEL INK ROLLING BALL
31008	BG25-BLK-6PK	G2 GEL INK ROLLING BALL
31009	BG25-BLU-6PK	G2 GEL INK ROLLING BALL
31010	BG25-RED-6PK	G2 GEL INK ROLLING BALL
31014	BG252BLK-6PK	G2 GEL INK ROLLING BALL 2-PACK
31015	BG252BLU-6PK	G2 GEL INK ROLLING BALL 2 PACK
31016	BG252RED-6PK	G2 GEL INK ROLLING BALL 2 PACK
31017	G27C3002	G2 ASSORTED 3 PACK FINE PT
31020	G27--BLK	G2 GEL INK ROLLING BALL
31021	G27--BLU	G2 GEL INK ROLLING BALL
31022	G27--RED	G2 GEL INK ROLLING BALL
31023	G27C3001	G2 GEL INK ROLLING BALL 3 PACK ASSORTED
31024	G2710BLK	G27-BLK 10 PACK
31025	G27--GRN	G2 GEL INK ROLLING BALL
31026	BG27-BLK-6PK	G2 GEL INK ROLLING BALL
31027	BG27-BLU-6PK	G2 GEL INK ROLLING BALL



**Items Applicable to SDS # AP-001-BL-G@-GHS\_170202**

UPC#	ITEM#	DESCRIPTION
31028	BG27-RED-6PK	G2 GEL INK ROLLING BALL
31029	G27--PPL	G2 GEL INK ROLLING BALL
31031	BG272BLK-6PK	G2 GEL INK ROLLING BALL 2 PACK
31032	BG272BLU-6PK	G2 GEL INK ROLLING BALL 2 PACK
31033	BG272RED-6PK	G2 GEL INK ROLLING BALL 2-PACK
31034	G27C4001	G2 GEL INK ROLLING BALL 4 PACK ASSORTED
31051	BG272GRN	G2 FINE GREEN 2- PACK
31052	BG272PPL-6PK	G2 PURPLE FINE - 2 PACK
31055	G25C4BLK	G2 GEL INK ROLLING BALL 4 PACK
31056	G25C4BLU	G2 XFINE 4-PACK BLUE
31057	G27C4BLK	G2 GEL INK ROLLING BALL 4 PACK
31058	G27C4BLU	G2 GEL INK ROLLING BALL 4 PACK
31065	G27C4002	G2 ASSORTED 4 PACK FINE PT
31076	G27--001-CB	G2-7 ASSORTED FINE DZ CLEAR BOX
31078	G27C5BLK	G2-7 5 PACK BLACK
31079	G27C5001	G2-7 5 PACK ASSORTED
31084	G21C4BLU	G2 BOLD 4PK BLUE
31094	BG272003	G2-7 2 PACK ASSORTED
31095	BG2P7BLK-001	G2 PRO GEL - 1 PACK ASST BARREL BLK
31096	BG2P7BLK-BLU	G2 PRO GEL - BLK 1 PACK - BLUE BARREL
31103	G25--BLK-BC	G2-5 BLK XF BAR-CODED PEN
31104	G25--BLU-BC	G25 BLU XF BAR - CODED PEN
31105	G25--RED-BC	G2-5 RED XF BAR-CODED PEN
31106	G25--GRN-BC	G2-5 GREEN XF BAR-CODED PEN
31107	G25--PPL-BC	G2-5 PURPLE XF BAR-CODED PEN
31116	G27--NVY-BC	G2-7 NAVY FINE BC DOZEN BOX
31118	G27--LIM-BC	G2-7 LIME FINE BC DOZEN BOX
31119	G21--BLU-BC	G2-1 BLU BOLD BC DOZEN BOX



**Items Applicable to SDS # AP-001-BL-G@-GHS\_170202**

UPC#	ITEM#	DESCRIPTION
31120	G21--RED-BC	G2-1 RED BOLD BC DOZEN BOX
31123	G27C3BLK	G2-7 3 PACK BLACK
31127	G27C3PPL	G2-7 3 PACK PURPLE
31128	G27C8001-P	G2 FINE ASST 8 PK POUCH
31130	G25--BLK-CB	G25 - CLEAR DOZEN BOX
31136	G27--BLK-CB	G27 - CLEAR DOZEN BOX
31137	G27--BLU-CB	G27 - CLEAR DOZEN BOX
31147	BG2P7BLK-GRY	G2 PRO GEL - BLK 1 PACK - GRAY BARREL
31170	G27--BLK-BC	G2-7 BLACK- FINE BAR-CODED PEN
31171	G27--BLU-BC	G2-7 BLUE - FINE BAR-CODED PEN
31172	G27--RED-BC	G27 RED -FINE BAR-CODED PEN
31173	G25C5BLK	G2-5 5 PACK BLACK
31174	G27--PNK-BC	G2-7 PINK FINE BC DOZEN BOX
31175	G27--PPL-BC	G2-7 PURPLE - FINE BAR-CODED PEN
31176	G27--TRQ-BC	G2-7 TURQUOISE FINE BC DOZ BOX
31177	G27--GRN-BC	G2-7 GREEN - FINE BAR-CODED PEN
31187	G27--NVY	G2-7 NAVY DOZEN BOX
31191	G27C4RED	G2-7 4 PACK RED
31192	G27C4005	G2-7 4 PACK ASSORTED
31197	G27C4004	G2-7 4 PACK ASSORTED
31198	G27C3004	G2-7 3 PACK ASSORTED
31202	G2S73001	G2-7 MINI 3 PACK ASST
31203	G2S74001	G2-7 MINI 4 PACK ASST
31206	G2S74BLK	G27 MINI 4 PACK BLACK
31207	G2S73002	G2-7 MINI 3 PACK ASST
31210	G2S7-BLK-BC	G2-7 MINI BLACK F BAR-CODED PEN
31211	G2S7-BLU-BC	G2-7 MINI BLUE F BAR-CODED PEN
31236	G2710003	G27 AST 10 PACK



**Items Applicable to SDS # AP-001-BL-G@-GHS\_170202**

UPC#	ITEM#	DESCRIPTION
31237	G21--BLK-BC	G2-1 BLK BOLD BC DOZEN BOX
31247	G27--BRG-BC	G2-7 BURGUNDY FINE BC DOZ BOX
31250	BG212BLK	G2-1 2 PACK BLACK BOLD
31251	BG212BLU	G2-1 2 PACK BLUE BOLD
31254	G21C4BLK	G2-1 4 PACK BLACK
31255	G21C4001	G2-1 4 PACK ASSORTED
31256	G21--BLK	G21 BLACK BOLD DOZEN BOX
31257	G21--BLU	G21 BLUE BOLD DOZEN BOX
31258	G21--RED	G21 RED BOLD DOZEN BOX
31265	G27--ORG-BC	G2-7 ORANGE FINE BC DOZEN BOX
31266	G27C5003	G2-7 5 PACK ASST
31271	BG232BLK	G2-3 ULTRA FINE POINT BLACK - 2 PACK
31272	BG232BLU	G2-3 ULTRA FINE POINT BLUE - 2 PACK
31275	G23C4BLK	G2-3 ULTRA FINE BLACK 4 PACK
31276	G23C4001	G2-3 ULTRA FINE ASST 4 PACK
31277	G23--BLK	G2-3 BLACK ULTRA FINE DOZEN BOX
31278	G23--BLU	G2-3 BLUE ULTRA FINE DOZEN BOX
31279	G23--RED	G2-3 RED ULTRA FINE DOZEN BOX
31294	G2720001-CW3	G2 FINE ASSORTED 20PC WALLET
31298	G25C5BLU	G2-5 EXTRA FINE BLUE - 5 PACK
31299	G27C5BLU	G2-7 BLUE - 5 PACK
31300	G25C5001	G2-5 EXTRA FINE ASSORTED - 5 PACK
31303	G21C5BLK	G2-1 BOLD BLACK - 5 PACK
31306	G23C5BLK	G2-3 ULTRA FINE BLACK 5 PACK
31312	BG272PNK-BCA	G2 2PK BREAST CANCER AWARENESS PEN WITH PINK INK
31321	G23--BLK-BC	G2-3 BLK ULTRA FINE BC DOZ BOX
31322	G23--BLU-BC	G2-3 BLUE ULTRA FINE BC DOZ BOX
31323	G23--RED-BC	G2-3 RED ULTRA FINE BC DOZ BOX



**Items Applicable to SDS # AP-001-BL-G@-GHS\_170202**

UPC#	ITEM#	DESCRIPTION
31331	BG272BLK-PNK	G2 2PK BREAST CANCER AWARENESS PEN WITH BLACK INK
31332	G27--BLK-PNK	G27 PNK BCA DOZEN BOX BLK INK
31365	G2FC2BLKF001	G2 FASHION BLACK FINE 2 PACK ASSORTED DESIGNS BLU/ORG
31366	G2FC2BLKF002	G2 FASHION BLACK FINE 2 PACK ASSORTED DESIGNS PNK/SLV
31367	G2FC2BLKF003	G2 FASHION BLACK FINE 2 PACK ASSORTED DESIGNS MIX CHIP
31368	G2FC2BLKFSLV	G2 FASHION BLACK FINE 2 PACK SILVER
31369	G2FC3BLKF001	G2 FASHION BLACK FINE 3 PACK ASSORTED SV/PK/GN
31370	G2FC3BLKF002	G2 FASHION BLACK FINE 3 PACK ASSORTED SV/OR/BL
31371	G2FC3BLKF003	G2 FASHION BLACK FINE 3 PACK ASSORTED MIX CHIP
31372	G2FC4BLKF001	G2 FASHION BLACK FINE 4 PACK ASSORTED
31373	G2FC5BLKF001	G2 FASHION BLACK FINE 5 PACK ASSORTED DESIGNS
31381	GFCC4001F	G2 FASHION COLORS FINE 4 PK AST MIXED CHIP
31382	GFCC5001F	G2 FASHION COLORS FINE 5 PK AST MIXED CHIP
31383	GFCC2003F	G2 FASHION COLORS FINE 2 PK AST MIXED CHIP
31387	G27C9BLK	G2-7 BLACK 9-PACK
31394	G2F--BLKFBLBC	G2 FASHION BLACK INK BLUE DESIGN BC DOZEN BOX
31395	G2F--BLKFGRBC	G2 FASHION BLACK INK GREEN DESIGN BC DOZEN BOX
31396	G2F--BLKFORBC	G2 FASHION BLACK INK ORANGE DESIGN BC DOZEN BOX
31397	G2F--BLKFPKBC	G2 FASHION BLACK INK PINK DESIGN BC DOZEN BOX
31409	G27--RED-CB	G27 RED CLEAR DOZEN BOX
31415	G2F--BLKFSLBC	G2 FASHION BLACK INK SILVER DESIGN BC DOZEN BOX
31495	GFC--TRQFBLBC	G2 FASHION TRQ INK BLUE DESIGN BC DOZEN BOX
31496	GFC--PNKFBC	G2 FASHION PNK INK PNK DESIGN BC DOZEN BOX
31497	GFC--ORGFBC	G2 FASHION ORG INK ORG DESIGN BC DOZEN BOX
31498	GFC--LIMFGRBC	G2 FASHION LIM INK GRN DESIGN BC DOZEN BOX
31535	BG2E7BLK-NSLV	G2 LIMITED 1 PK FINE POINT SILVER TRAPPED
31536	BG2E7BLK-NGRY	G2 LIMITED 1 PK FINE POINT GREY TRAPPED
31537	BG2E7BLK-NGLD	G2 LIMITED 1 PK FINE POINT GOLD TRAPPED