

21860-XXXX

Product Name : BRAVO!

SDS No.:SI -046

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MATERIAL SAFETY DATA SHEET

Date of Issue: September 1, 2009
SDS No.: SI-046
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 : BRAVO!
Product code : BRV

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.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

For ink unless otherwise specified

Ingredients	CAS Number	EINECS Number	Weight %	Component
Triethanolamine	102-71-6	203-049-8	1-4	All Colors
Ethylene glycol	107-21-1	203-473-3	7-8	All Colors
phenol	108-95-2	203-632-7	0.3	All Colors
trisodium [29H,31H-phthalocyaninetrisulphonato(5-)-N29,N30,N31,N32]cuprate(3-)	1330-39-8	215-538-3	6	BRV-G

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 safety** : None
- 5.3. Special exposure hazards arising from the substance or preparation itself, combustion products** : CO₂, CO, NO_x, and SO_x are produced after combustion.
- 5.4. Special protective equipment for fire-fighters** : 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.

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6.4 Additional information : None

7. HANDLING AND STORAGE

- 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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1. Exposure limit values : No data
- 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
- b) Hand protection : Wear suitable gloves.
- c) Eye protection : Wear eye protection.
- d) Skin protection : Wear suitable protective clothing.
- 8.2.2. Environmental exposure controls
- | | | |
|-----------------|-----------------|-----------------------|
| : ACGIH TLV-TWA | Ethylene glycol | : 50 ppm |
| | Triethanolamine | : 5 mg/m ³ |
| | phenol | : 5 ppm |

9. PHYSICAL AND CHEMICAL PROPERTIES

For ink unless otherwise specified

9.1. General information

- Appearance : Viscosity liquid
[Color] Black, Red, Blue, Green, Light Blue, Violet
- 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 : 1.07-1.11 (at 20 degrees Celsius)

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Solubility	: Not applicable
Water solubility	: Soluble
Partition coefficient: n-octanol / water	: Not available
Viscosity	: 2-5 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	
Triethanolamine	LD ₅₀ 4.92 ml/kg(rat)
Ethylene glycol	LD ₅₀ 8,540 mg/kg(rat)
phenol	LD ₅₀ 317 mg/kg(rat)
11.3. Sensitization	: No data
11.4. Repeated dose toxicity	: No data
11.5. CMR (carcinogenicity, mutagenicity, and toxicity for reproduction)	: No data

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 applicable
14.2. Class	: Not applicable
14.3. Proper shipping name	: Not applicable
14.4. Packing group	: Not applicable
14.5. Marine pollutant	: Not applicable
14.6. Other applicable information	: None

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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