

SAFETY DATA SHEET

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

This product is a writing instrument to be recognized as Article.

1.1. Identification of the substance or mixture

Product name : PILOT Permanent Marker 400
 Product code : SCA-400-B/G-A
 Mixture name : SCZ-B/G

1.2. Use of the mixture : Ink for writing instrument

1.3. Company identification e-mail address

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

2. HAZARDS IDENTIFICATION

2.1. GHS Classification of the substance or mixture

Physical hazards

Flammable liquids : Category 2

Health hazards

Skin corrosion/irritation : Category 3

Eye damage/irritation : Category 2

Specific target organ toxicity : Category 3 (Respiratory irritation/Anesthetic
 (single exposure) action)

2.2. GHS label elements

Hazard pictograms



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Signal word : Danger

Hazard statements

H225 : Highly flammable liquid and vapour
 H316 : Causes mild skin irritation
 H319 : Causes serious eye irritation
 H335 : May cause respiratory irritation; or
 H336 : May cause drowsiness or dizziness

Precautionary statements

Prevention

P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

- P233 : Keep container tightly closed.
 P240 : Ground and bond container and receiving equipment.
 P241 : Use explosion-proof electrical/ventilating/lighting equipment.
 P242 : Use non-sparking tools.
 P243 : Take action to prevent static discharges.
 P280 : Wear protective gloves/protective clothing/eye protection/face protection.
 P264 : Wash hands and face thoroughly after handling.
 P261 : Avoid breathing dust/fume/gas/mist/vapours/spray.
 P271 : Use only outdoors or in a well-ventilated area.

Response

- P303+P361+P353 : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
 P370+P378 : In case of fire: Use water spray, foam, dry, chemical powder or carbon dioxide to extinguish.
 P332+P313 : If skin irritation occurs: Get medical advice/attention.
 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.
 P304+P340 : IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P312 : Call a POISON CENTER/doctor if you feel unwell.

Storage

- P403+P235+P233 : Store in a well-ventilated place. Keep cool. Keep container tightly closed.
 P405 : Store locked up.

Disposal

- P501 : Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards : None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance or mixture : Mixture

Ingredients and composition

Ingredients	CAS Number	Weight %	Component
Ethanol	64-17-5	53-58	All colors
1-Methoxypropan-2-ol	107-98-2	20	All colors
Benzyl alcohol	100-51-6	4.0	All colors
Triethanolamine	102-71-6	0.10	Green
Yellow Dye	Non public	0.76-1.8	All colors
Additive	Non public	1.2-2.0	All colors

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 least 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

Ink contact with skin may cause irritation, swelling or redness.

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. Suitable extinguishing media

: In case of fire, use water spray, foam, dry, chemical powder or carbon dioxide.

5.2. Specific hazards arising from the substance or mixture

: CO₂, CO, NO_x, and SO_x, is produced after combustion.

5.3. Special protective equipment and precautions for fire-fighters

: 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.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

: Use proper ventilation. Avoid rough handling or dropping.

Wear protective gloves/protective clothing/eye protection/face protection.

Keep out of reach of children and do not drink ink.

7.2. Conditions for safe storage, including any incompatibilities

: Store in a dry, cool, well-ventilated location, away from possible all source of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

Component	Threshold limit values
	ACGIH
Ethanol	STEL 1,000 ppm
1-Methoxypropan-2-ol	TWA 100ppm
	STEL 150ppm

8.2. Appropriate engineering controls

: In the case of the handling of the room to install a closed reduction or local exhaust sources.

Electrical equipment to be used in handling the location could be explosion-proof structure, equipment is static electricity measures.

8.3. Individual protection measures, such as personal protective equipment.

: 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	: Liquid [Color] Black, Green
(b) Odor	: Organic solvent odor
(c) Odor threshold	: No data
(d) pH	: Not applicable
(e) Melting point/freezing point	: -114.1 degrees Celsius (Ethanol)
(f) Initial boiling point/boiling range	: 78.5 degrees Celsius (Ethanol)
(g) Flash point	: 13 degrees Celsius (Ethanol)
(h) Evaporation rate	: No data
(i) Flammability (solid, gas)	: Flammable
(j) Upper/lower flammability or explosive limits	: LEL 3.3 vol.%, UEL 19.0 vol.% (Ethanol)
(k) Vapor pressure	: 5850 Pa (at 20 degrees Celsius, Ethanol)
(l) Vapor density	: 1.6 (Ethanol)
(m) Relative density	: 0.88-0.90 (at 20 degrees Celsius)
(n) Solubility	: Insoluble in water
(o) Partition coefficient: n-octanol/water	: -0.31 (log Pow, Ethanol)
(p) Auto-ignition temperature	: No data
(q) Decomposition temperature	: No data
(r) Viscosity	: 2.6-4.6 mPa·s (at 20 degrees Celsius)

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	: Direct sunshine, the high temperature and source of ignition.
10.5. Incompatible materials	: Strong oxidizing agents and reducing agents.
10.6. Hazardous decomposition products	: Heating can release vapours which can be ignited. : Burning produces obnoxious and toxic fumes, carbon oxides.

11. TOXICOLOGICAL INFORMATION

There is no data available on the mixture itself.

Information on toxicological effects

Skin corrosion/irritation	: 1-Methoxypropan-2-ol	: Category 3
Eye damage/irritation	: Ethanol	: Category 2B
	: 1-Methoxypropan-2-ol	: Category 2
	: Benzyl alcohol	: Category 2
	: Yellow Dye	: Category 2B
Sensitization-skin	: Triethanolamine	: Category 1

Specific target organ toxicity : Ethanol : Category 3 (Respiratory irritation,
(single exposure) Anesthetic action)
: 1-Methoxypropan-2-ol : Category 3 (Anesthetic action)

12. ECOLOGICAL INFORMATION

There is no data available on the mixture itself.

12.1. Ecotoxicity

12.1.1. Hazardous to the aquatic environment, : No data available
short-term (acute)

12.1.2. Hazardous to the aquatic environment, : Additive : Category 2
long-term (chronic)

12.2. Persistence and degradability : No data available

12.3. Bioaccumulative potential : No data available

12.4. Mobility in soil : No data available

12.5. Other adverse effects : None

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Follow all regulations in your country.

14. TRANSPORT INFORMATION

For ink unless otherwise specified.

14.1. UN number : 1993

14.2. UN proper shipping name : Flammable Liquid N.O.S. (Ethanol)

14.3. Transport hazard class(es) : 3

14.4. Packing group : II

14.5. Environmental hazards : Not applicable

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

14.7. Special precautions for user : Not applicable

The above mentioned information is for ink.

Finished marker pen itself is not regarded as hazardous goods.

Ink below 10 ml per pen is absorbed in polyester filter reservoir inside of the pen.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Follow all regulations in your country.

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