

SAFETY DATA SHEET

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 SDS No. : AI-005
 Version : 002



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 : Precise V5/V7
 Product code : BX-V5-BL-B/R/L/G/V/P/LB/LG/O/Y/DR/BB-A
 BX-V7-BL-B/R/L-A
 BX-V5-S7N-A
 BX-V5-NP-BL-B/L-A
 BX-V7-NP-BL-B/L-A
 BX-V5PT-BL-B/R/L/G/V/P/LB-A
 Mixture name : V5-B/R/L/G/V/P/LB/LG/O/Y/DR/BB
 V7-B

1.2. Use of the mixture : Ink for writing instrument

1.3. Company identification e-mail address

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

2. HAZARDS IDENTIFICATION

2.1. GHS Classification of the substance or mixture

Health hazards

Skin corrosion/irritation : Category 2 (V5-LB, V7-B)
 Eye damage/irritation : Category 2
 Sensitization - skin : Category 1

2.2. GHS label elements

Hazard pictograms



Signal word : Warning

Hazard statements

H315 : Causes skin irritation (V5- LB, V7-B)
 H317 : May cause an allergic skin reaction
 H319 : Causes serious eye irritation

Precautionary statements

Prevention

- P261 : Avoid breathing mist/vapors/spray.
 P264 : Wash hands thoroughly after handling.
 P272 : Contaminated work clothing should not be allowed out of the workplace.
 P280 : Wear protective gloves/ eye protection/face protection.

Response

- P302+P352 : IF ON SKIN: Wash with plenty of soap and water.
 P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P333+P313 : If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 : If eye irritation persists: Get medical advice/attention.
 P362+P364 : Take off contaminated clothing and wash it before reuse.

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
2-Pyrrolidone	616-45-5	3.6-5.0 %	All colors
Additive A	Non Public	3.0-3.3 %	V5-B/R/L/V/P/LG/Y/O/DR/BB
Additive B	Non Public	0.50-0.80 %	V5-G/LB, V7-B
Triethanolamine	102-71-6	1.0-2.2 %	All colors
Surfactant	Non Public	0.45-1.0 %	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

: Not classed as flammable.

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

: 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

Component	Threshold limit values
	ACGIH
Triethanolamine	TLV-TWA 5 mg/m ³

8.2. Appropriate engineering controls

: No special controls are needed.

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, Red, Blue, Green, Violet, Pink,
Light Blue, Light Green, Yellow, Orange,
Dark Red, Blue Black

(b) Odor : Slight characteristic

(c) Odor threshold : No data

(d) pH : 7.5-10.3

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(e) Melting point/freezing point	: No data
(f) Initial boiling point/boiling range	: About 100 degrees Celsius
(g) Flash point	: Boils without flashing
(h) Evaporation rate	: No data
(i) Flammability (solid, gas)	: None
(j) Upper/lower flammability or explosive limits	: No data
(k) Vapor pressure	: No data
(l) Vapor density	: No data
(m) Relative density	: 1.06-1.11 (at 20 degrees Celsius)
(n) Solubility	: Not applicable
(o) Partition coefficient: n-octanol/water	: Not available
(p) Auto-ignition temperature	: No data
(q) Decomposition temperature	: No data
(r) Viscosity	: 2.2-4.5 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	: This material is stable.
10.5. Incompatible materials	: Strong oxidizing agents and reducing agents.
10.6. Hazardous decomposition products	: No data

11. TOXICOLOGICAL INFORMATION

There is no data available on the mixture itself.

Information on toxicological effects

Skin corrosion/irritation	: Additive A	: Category 2
	: Surfactant	: Category 1
	: Triethanolamine	: Category 2
Eye damage/irritation	: 2-Pyrrolidone	: Category 2
	: Additive A	: Category 2
	: Additive B	: Category 1
	: Surfactant	: Category 1
	: Triethanolamine	: Category 2A
Sensitization - skin	: Additive A	: Category 1
	: Triethanolamine	: Category 1
	: Additive B	: Category 1

12. ECOLOGICAL INFORMATION

There is no data available on the mixture itself.

12.1. Ecotoxicity

12.1.1. Hazardous to the aquatic environment, short term (acute)	: 2-Pyrrolidone	: Category 3
	: Surfactant	: Category 3

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- 12.1.2. Hazardous to the aquatic environment, long-term (chronic) : Surfactant : Category 3
- 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

- 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. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable
- 14.7. Special precautions for user : None

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