

SAFETY DATA SHEET

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 SDS No.: RI-022
 Version: 006



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 : V BOARD MASTER
 Product code : WBMA-VBM-F-B/R/L/G/O/V-BG
 WBMA-VBM-M-B/R/L/G/O/V-BG
 WBMA-VBM-MC-B/R/L/G/O-BG
 WBMA-VBM-B-B/R/L/G/O-BG
 Mixture name : WMAM-B/L/G /V, WMA-R/O

1.2. Use of the mixture : Ink for writing instrument

1.3. Company identification e-mail address

Name of manufacture : PILOT CORPORATION OF EUROPE
 / supplier
 Address : PAE de la Caille 74350 ALLONZIER-LA-CAILLE (France)
 Telephone number : +33 (0)4 50 08 33 00
 Working hours (from 8.30am to 12.30pm and from 01.30pm to 05.30pm
 :04.00pm on Friday-French time)
 Facsimile number : +33 (0)4 50 46 43 59
 E-mail address : pilotfrance@piloteurope.com

1.4. Emergency telephone number : +33 (0)1 45 42 59 59

Association /Organization :ORFILA /INRS <http://www.centres-antipoison.net>

2. HAZARDS IDENTIFICATION

Based on the law and regulation in Japan

Physical /Chemical hazards : Flammable liquid
 Acute toxic substance
 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

Based on the law and regulation in Japan

For ink unless otherwise specified

Ingredients	CAS No.	EINECS Number	Weight %	Component
Ethanol	64-17-5	200-578-6	35-79	All colors
Propan-2-ol	67-63-0	200-661-7	4-41	All colors
Propan-1-ol	71-23-8	200-746-9	1-2.9	Black, Violet
Carbon black	1333-86-4	215-609-9	4.0	Black
C.I.Pigment Green 7	1328-53-6	215-524-7	2.2	Green
C.I.Pigment Green 36	14302-13-7	238-238-4	2.5	Green

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 : 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 mixture 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 : 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

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 , away from possible all source of ignition.
- 7.3. Specific use(s) : Not use it except the ink for writing instruments.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 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
- Ethanol : 1000 ppm
- Propan-2-ol : 400 ppm
- Propan-1-ol : 200 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

For ink unless otherwise specified

9.1. General information

- Appearance : Liquid
[Color] Black, Red, Blue, Green, Orange, Violet
- Odor : Alcohol odor

9.2. Important health, safety and environmental information

- pH : Not applicable
- Boiling point / boiling range : 78.3 degrees Celsius (Ethanol)
- Flash point : 14.0 degrees Celsius (Ethanol)
- Flammability (solid, gas) : Flammable
- Explosive properties : None
- Oxidizing properties : None
- Vapor pressure : 44 mmHg (at 20 degrees Celsius, Ethanol)
- Relative density : 0.81 -0.85 (at 20 degrees Celsius)
- Solubility : Not applicable
- Water solubility : Insoluble

Partition coefficient: n-octanol / water	: No data
Viscosity	: 5 -13 mPa · s (at 20 degrees Celsius)
Vapor density	: 1.6 (at 20 degrees Celsius, ethanol)
Evaporation rate	: No data

9.3. Other information : None

10. STABILITY AND REACTIVITY

10.1. Conditions to avoid	: Fire or intense heat may cause violent rupture of packages. : Take precautionary measures against static discharges.
10.2. Materials to avoid	: Strong oxidizing agents and reducing agents.
10.3. Hazardous decomposition products	: Heating can release vapors which can be ignited. : Burning produces obnoxious and toxic fumes, carbon oxides.

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	Ethanol : LD ₀ 1,400 mg/kg (human oral) : LD ₅₀ 7,060 mg/kg (rat oral)
	propan-2-ol : LD ₅₀ 5045 mg/kg (rat oral) : LD ₀ 3570 mg/kg (rabbit skin)
	propan-1-ol : LD ₅₀ 1870 mg/kg (rat oral) LD ₅₀ 4000 mg/kg (rabbit skin)
: Irritation	Ethanol : 400 mg open ; MILD (rabbit skin) 100 mg/24h ; MODERATE (rabbit eye)
	Propan-2-ol : 500 mg open ; MILD (rabbit skin) 100 mg/24h ; MODERATE (rabbit eye)
	Propan-1-ol : 500 mg open ; MILD (rabbit skin) 100 mg/24h ; MODERATE (rabbit eye)
11.3. Sensitization	: No data
11.4. Repeated dose toxicity	: No data
11.5. CMR (carcinogenicity, mutagenicity, and toxicity for reproduction)	
	Carcinogenicity Carbon black IARC Class 2B

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.

14. TRANSPORT INFORMATION

For ink unless otherwise specified

14.1.1. UN number	: 1993
14.1.2. Class	: 3
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

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