

# SAFETY DATA SHEET

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 SDS No. : AI-008  
 Version : 001



## 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 : WBMAVBMM-B/R/L-BGAU  
 WBMAVBMMC-B/R/L-BGAU  
 WBMAVBM-M-S5BGA  
 WBMAVBMMC-S5BGA  
 Mixture name : WMAM-B,L,G  
 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  
 /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

Eye damage/irritation : Category 2

Specific target organ toxicity (single exposure) : Category 1(central nervous system/kidneys/systemic toxicity)  
 Category 3(respiratory tract irritation/narcotic effects)

Specific target organ toxicity (repeated exposure) : Category 2(blood vessels/kidneys/ spleen)

Aspiration hazard : Category 2(WMAM-B,L,G)

### 2.2. GHS label elements

#### Hazard pictograms



Signal word : Danger

## Hazard statements

- H225 : Highly flammable liquid and vapor  
H319 : Causes serious eye irritation  
H370 : Causes damage to organs central nervous system/kidneys/  
systemic toxicity  
H335 : May cause respiratory irritation; or  
H336 : May cause drowsiness or dizziness  
H373 : May cause damage to organs blood vessels/kidneys/spleen  
through prolonged or repeated exposure  
H305 : May be harmful if swallowed and enters  
airway(WMAM-B,L,G)

## 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 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 thoroughly after handling.  
P270 : Do not eat, drink or smoke when using this product.  
P260 : Do not breathe dust/fume/gas/mist/vapors/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.  
P304+P340 : IF INHALED: Remove person to fresh air and keep  
comfortable for breathing.  
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.  
P312 : Call a POISON CENTER/doctor if you feel unwell.  
P308+P311 : If exposed or concerned: Call a POISON CENER/doctor.  
P301+P310 : IF SWALLOWED: Immediately call a POISON  
CENTER/doctor(WMAM-B,L,G)  
P331 : Do NOT induce vomiting. (WMAM-B,L,G)

## Storage

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

## Disposal

P501

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

## 2.3. Other hazards

: None

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

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Substance or mixture : Mixture

## Ingredients and composition

Ingredients	CAS Number	Weight %	Component
Ethanol	64-17-5	35-76	All Colors
Propan-2-ol	67-63-0	4.0-40	All Colors
Propan-1-ol	71-23-8	2.9	Black
Carbon Black	1333-86-4	4.0	Black

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**4. FIRST AID MEASURES**

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## 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.

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**5. FIRE-FIGHTING MEASURES**

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## 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

: CO<sub>2</sub>, CO, NO<sub>x</sub>, and SO<sub>x</sub>, is produced after combustion.

## 5.3. Special protective equipment and precautions for fire-fighters

: None

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**6. ACCIDENTAL RELEASE MEASURES**

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## 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.

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## 7. HANDLING AND STORAGE

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### 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.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### 8.1. Control parameters

#### Occupational exposure limits

Component	Threshold limit values
	ACGIH
Ethanol	STEL 1,000ppm
Propan-2-ol	STEL 400ppm TWA 200ppm
Propan-1-ol	TWA 100ppm

### 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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1. Information on basic physical and chemical properties

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|--|---|
| (a) Appearance                                   | : Liquid<br>[Color] Black, Red, Blue, Green, Orange |
| (b) Odor   | : Alcohol 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                             | : 0.83 (at 20 degrees Celsius)                      |
| (n) Solubility                                   | : Insoluble in water                                |
| (o) Partition coefficient:<br>n-octanol/water    | : -0.31 (log Pow, Ethanol)                          |
| (p) Auto-ignition temperature                    | : No data   |
| (q) Decomposition temperature                    | : No data   |

(r) Viscosity	: 5.0-13 mPa·s (at 20 degrees Celsius)
9.2. Other information	: None

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## 10. STABILITY AND REACTIVITY

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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 vapors which can be ignited. : Burning produces obnoxious and toxic fumes, carbon oxides.

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## 11. TOXICOLOGICAL INFORMATION

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There is no data available on the mixture itself.

### 11.1. Information on toxicological effects

Eye damage/irritation	: Ethanol	: Category 2B
	Propan-2-ol	: Category 2
	Propan-1-ol	: Category 1
Specific target organ toxicity (Single exposure)	: Ethanol	: Category 3(respiratory tract irritation/ narcotic effects)
	Propan-2-ol	: Category 1 (central nervous system/ kidneys/systemic toxicity)
Specific target organ toxicity (Repeated exposure)	: Propan-2-ol	: Category 2(blood vessels/kidneys/ spleen)
Aspiration hazard	: Propan-2-ol	: Category 2

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## 12. ECOLOGICAL INFORMATION

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There is no data available on the mixture itself.

### 12.1. Ecotoxicity

12.1.1. Hazardous to the aquatic environment, short-term (acute)	: Not applicable
12.1.2. Hazardous to the aquatic environment, long-term (chronic)	: Not applicable
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

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## 13. DISPOSAL CONSIDERATIONS

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### 13.1. Waste treatment methods

- Follow all regulations in your country.

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**14. TRANSPORT INFORMATION**

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14.1. UN number	: 1993
14.2. UN proper shipping name	: Flammable liquids, 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 of MARPOL 73/78 and the IBC Code	: Not applicable
14.7. Special precautions for user	: Not applicable

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**15. REGULATORY INFORMATION**

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

- Follow all regulations in your country.

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**16. OTHER INFORMATION**

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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