

# SAFETY DATA SHEET

Date of Issue: March 01, 2020  
SDS No.: RI-023  
Version: 009



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

For ink unless otherwise specified.

### 1.1. Product identifier.

Product name : Cartridge for V BOARD MASTER

Product code : WBS-VBM-B/L/G

Mixture name : WMAM-B/L/G

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Ink for writing instrument

### 1.3. Details of the supplier of the safety data sheet

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

Telephone number : +33 (0)1 45 42 59 59

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

## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flammable Liquid Category 2 H225

Eye Damage / Eye Irritation Category 2 H319

Specific target organ toxicity (Single exposure) Category 3 H336

### 2.2. Label elements

Labeling according Regulation (EC) No 1272/2008

Hazard Pictograms



Signal word Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour

H319 Causes serious eye irritation

H336

May cause drowsiness or dizziness

## Precautionary statement(s)

## Prevention

P210

Keep away from heat/sparks/open flames/hot surfaces. -No smoking.

P271

Use only outdoors or in a well-ventilated area.

P102

Keep out of reach of children.

## Response

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## 2.3. Other hazards

None

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredients  | CAS No.   | EC No.    | Index No.      | REACH Registration No.        | % Weight | Classification                                                  | Component  |
|--------------|-----------|-----------|----------------|-------------------------------|----------|-----------------------------------------------------------------|------------|
|              |           |           |                |                               |          | (EC)No 1272/2008                                                |            |
| Ethanol      | 64-17-5   | 200-578-6 | 603-002-00-5   | 01-21194<br>57610-43<br>-xxxx | 35-45    | Flam Liq.2<br>H225                                              | All colors |
| Propan-2-ol  | 67-63-0   | 200-661-7 | 603-117-00-0   | 01-21194<br>57558-25<br>-xxxx | 35-40    | Flam Liq.2<br>H225<br>Eye Irrit. 2<br>H319<br>STOT SE 3<br>H336 | All colors |
| Propan-1-ol  | 71-23-8   | 200-746-9 | 603-003-00-0   | -                             | 2.9      | Flam liq. 2<br>H225<br>Eye Dam.1<br>H318<br>STOT SE3<br>H336    | Black      |
| Carbon black | 1333-86-4 | 215-609-9 | Not applicable | -                             | 4.0      | Not classified                                                  | Black      |

H318: Causes serious eye damage.

### 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

In case of skin or eye contamination treat as under First Aid Measures.

## 4.3. Indication of any immediate medical attention and special treatment needed

There is no specific antidote. Treat symptoms.

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**5. FIRE-FIGHTING MEASURES**

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- 5.1. Extinguishing media : In case of fire, use water spray, foam, dry, chemical powder or carbon dioxide.
- 5.2. Special 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. Advice for firefighters : 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.
- 6.4. Reference to other sections : None

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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.
- 7.3. Specific end use(s) : Not use it except the ink for writing instruments.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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## 8.1. Control parameters

Data of France.

|              | Limit value - Eight hours | Limit value - Short term |
|--------------|---------------------------|--------------------------|
| Ethanol      | 1000 ppm                  | 5000 ppm                 |
| Propan-2-ol  | —                         | 400 ppm                  |
| Carbon black | 3.5 mg/m <sup>3</sup>     | —                        |

## 8.2. Exposure controls

: 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

|                |                           |
|----------------|---------------------------|
| (a) Appearance | : Black/Blue/Green Liquid |
| (b) Odour      | : Alcohol odour           |

|                                                  |                                            |
|--------------------------------------------------|--------------------------------------------|
| (c) Odour threshold                              | : No data                                  |
| (d) pH                                           | : Not applicable                           |
| (e) Melting point / Freezing point               | : No data                                  |
| (f) Boiling point / boiling range                | : 78.3 degrees Celsius (Ethanol)           |
| (g) Flash point                                  | : 14.0 degrees Celsius (Ethanol)           |
| (h) Evaporation rate                             | : No data                                  |
| (i) Flammability (solid, gas)                    | : Flammable                                |
| (j) Upper/lower flammability or explosive limits | : None                                     |
| (k) Vapor pressure                               | : 40hPa (at 20 degrees Celsius, Ethanol)   |
| (l) Vapor density                                | : 1.6 (at 20 degrees Celsius, Ethanol)     |
| (m) Relative density                             | : 0.83-0.85 (at 20 degrees Celsius)        |
| (n) Solubility(ies)                              | : Not applicable                           |
| (o) Partition coefficient: n-octanol / water     | : Not available                            |
| (p) Auto-ignition temperature                    | : No data                                  |
| (q) Decomposition temperature                    | : No data                                  |
| (r) Viscosity                                    | : 6.0-13.0 mPa · s (at 20 degrees Celsius) |
| (s) Explosive properties                         | : No data                                  |
| (t) Oxidising properties                         | : No data                                  |
| 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.<br>: Burning produces obnoxious and toxic fumes, carbon oxides. |

## 11. TOXICOLOGICAL INFORMATION

Mixture: No data

|                                            |             |                                                                                           |
|--------------------------------------------|-------------|-------------------------------------------------------------------------------------------|
| 11.1. Information on toxicological effects |             |                                                                                           |
| (a) acute toxicity                         | Ethanol     | : LD <sub>50</sub> 11,500 mg/kg (rat oral)                                                |
|                                            | Propan-2-ol | : LD <sub>50</sub> 3,437 mg/kg (rat oral)<br>: LD <sub>50</sub> 4,059 mg/kg (rabbit skin) |
|                                            | Propan-1-ol | : LD <sub>50</sub> 2,695 mg/kg (rat oral)                                                 |
| (b) skin corrosion/irritation              | Ethanol     | : 400 mg open ; MILD (rabbit skin)                                                        |
|                                            | Propan-2-ol | : 500 mg open ; MILD (rabbit skin)                                                        |
|                                            | Propan-1-ol | : 500 mg open ; MILD (rabbit skin)                                                        |
| (c) serious eye damage/                    | Ethanol     | : 100 mg/24h ; MODERATE(rabbit eye)                                                       |

|                                       |                   |                                         |
|---------------------------------------|-------------------|-----------------------------------------|
| irritation                            | Propan-2-ol       | : 100 mg/24h ; MODERATE<br>(rabbit eye) |
|                                       | Propan-1-ol       | : 100 mg/24h ; MODERATE<br>(rabbit eye) |
| (d) respiratory or skin sensitisation | No data available |                                         |
| (e) germ cell mutagenicity            | No data available |                                         |
| (f) carcinogenicity                   | Carbon black      | : IARC Class 2B                         |
| (g) reproductive toxicity             | No data available |                                         |
| (h) STOT-single exposure              | Propan-2-ol       | : May cause drowsiness or dizziness.    |
|                                       | Propan-1-ol       | : May cause drowsiness or dizziness.    |
| (i) STOT-repeated exposure            | No data available |                                         |
| (j) aspiration hazard                 | No data available |                                         |

Although carbon black is classified with 2B by IARC, it was in solution, and since it was not a granular material, it carried out the outside of classification.

## 12. ECOLOGICAL INFORMATION

Mixture: No data.

|                                          |                   |                                                                                                          |
|------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------|
| 12.1. Toxicity                           | Ethanol           | : LC <sub>50</sub> - Salmo gairdneri-13,000 mg/L-96H<br>EC <sub>50</sub> - Daphnia magna-12,340 mg/L-48H |
|                                          | Propan-2-ol       | : LC <sub>50</sub> - Fathead minnow- 11,130mg/L-96H                                                      |
|                                          | Propan-1-ol       | : EC <sub>50</sub> - Daphnia magna(Water flea)-<br>3,025 mg/L-48H                                        |
| 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. Results of PBT and vPvB assessment | No data available |                                                                                                          |
| 12.6. Other adverse effects              | No data available |                                                                                                          |

## 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

- Follow all regulations in your country.

## 14. TRANSPORT INFORMATION

|                                                                                |                                    |
|--------------------------------------------------------------------------------|------------------------------------|
| 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. Special precautions for user                                             | : Not applicable.                  |
| 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | : Not applicable.                  |

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**15. REGULATORY INFORMATION**

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

- Follow all regulations in your country.

15.2. Chemical safety assessment

- No data

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**16. OTHER INFORMATION**

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Hazard statement according to (EC) No 1272/2008

| Precautionary Statements |                    |                                                                                                                   |
|--------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------|
| Prevention               | P233               | Keep container tightly closed.                                                                                    |
|                          | P240               | Ground / bond container and receiving equipment.                                                                  |
|                          | P241               | Use explosion-proof electrical, ventilating and lighting equipment.                                               |
|                          | P242               | Use only 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.                                                                             |
|                          | P261               | Avoid breathing mist or vapours or spray.                                                                         |
| Response                 | P303+P361<br>+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water.            |
|                          | P304 + P340        | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                        |
|                          | P337+P317          | If eye irritation persists: Get medical help.                                                                     |
|                          | P319               | Get medical help if you feel unwell.                                                                              |
|                          | P370 + P378        | In case of fire: Use water spray, foam, dry chemical powder or carbon dioxide for extinguish.                     |
| Storage                  | P403+P235          | Store in a well-ventilated place. Keep cool.                                                                      |
|                          | P403+P233          | Store in a well-ventilated place. Keep container tightly closed.                                                  |
|                          | P405               | Store locked up.                                                                                                  |
| Disposal                 | P501               | Dispose of contents and container in accordance with all local, regional, national and international regulations. |

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