Product Name: Cartridge for V BOARD MASTER

# SAFETY DATA SHEET

Date of Issue: Feb. 20, 2013

SDS No.: RI-023 Version: 005



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# 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY

1.1. Identification of the substance or preparation

Product name : Cartridge for V BOARD MASTER

Product code : WBS-VBM-B/R/L/G/O/V
Preparation name : WMAM-B/L/G/V, WMA-R/O

1.2. Use of the preparation : Ink for writing instrument

1.3. Company identification e-mail address

Name of manufacture

: PILOT CORPORATION OF EUROPE

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

All colors of preparation are dangerous according to Directive 67/548/EEC and its amendments.

Ingredients: ethanol, propan-2-ol and propan-1-ol

Classification: F;R11

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

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 -4	Black, Violet
Carbon black	1333-86-4	215-609-9	4.0	Black

Risk-phrase Ethanol :R11

Propan-2-ol :R11,R,36,R67

Propan-1-ol :R11

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Safety-phrase Ethanol :S2,S7,S16

Propan-2-ol :S2,S7,S16,S24/25,S26 Propan-1-ol :S2,S7,S16,S24,S26,S39

Additional information : None

## 4. FIRST AID MEASURES

Inhalation : Remove the victim from the contamination immediately to fresh air.

And refer for medical attention.

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 : None

#### 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 : Not applicable

safety

5.3. Special exposure hazards arising from the substance

or preparation itself, combustion products

 $: CO_2, CO, NO_x$  and  $SO_x$  are produced

after combustion.

5.4. Special protective equipment for fire-fighters : No data

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 : Keeping away from drains, surface-and ground-water and

soil, possible need to alert the neighbourhood.

6.3. Methods for cleaning up : Absorb spill with material (cloth or paper), then place in

chemical waste containers.

6.4. Additional information : None

#### 7. HANDLING AND STORAGE

7.1. Handling Avoid rough handling or dropping.

: Keep container tightly closed.

: Wear suitable gloves and eye protection.

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.

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#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Exposure limit values : No data

8.1.1. Occupational exposure controls
8.1.2. Biological limit values
8.1.3. DNEL and PNEC-value(s) as applicable
Not available
No data

8.2. Exposure controls

8.2.1. Occupational exposure controls

a) Respiratory protection
b) Hand protection
c) Eye protection
d) Skin protection
i Not required in normal use.
j Not required in normal use.
j Not required in normal use.

8.2.2. Environmental exposure controls

: ACGIH TLV-TWA Ethanol : 1000 ppm

Propan-2-ol : 400 ppmPropan-1-ol : 200 ppmCarbon black :  $3.5 \text{ mg/m}^3$ 

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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 : Direct sunshine, the high temperature and

source of ignition.

10.2. Materials to avoid Strong oxidizing agents and reducing agents.

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10.3. Hazardous decomposition products

: Heating can release vapours which can be ignited.

 $\vdots Burning \ produces \ obnoxious \ and \ toxic \ fumes, \ carbon$ 

oxides.

#### 11. TOXICOLOGICAL INFORMATION

There is no data available on the preparation itself.

11.1. Toxicokinetics, metabolism and distribution : No data

11.2. Acute effects (acute toxicity, irritation and corrosivity)

: Acute toxicity Ethanol : LD<sub>50</sub> 7,060 mg/kg (rat oral)

LDL<sub>0</sub> 1,400 mg/kg (human oral)

Propan-2-ol : LD<sub>50</sub> 5,045 mg/kg (rat oral)

TDL<sub>0</sub> 3,570 mg/kg (rabbit skin)

Propan-1-ol : LD<sub>50</sub> 1870 mg/kg (rat oral)

LD<sub>50</sub> 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

14.1. UN number	: 1993
14.2. Class	: 3

14.3. Proper shipping name: Not applicable14.4. Packing group: Not applicable14.5. Marine pollutant: Not applicable

14.6. Other applicable information : None

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# 15. REGULATORY INFORMATION

· Follow all regulations in your country.

# 16. OTHER INFORMATION

R11: Highly flammable.

R36: Irritant to eyes.

R67: Vapors may cause drowsiness and dizziness.

S2: Keep out of the reach of children.

S7: Keep container tightly closed.

S16: Keep away from sources of ignition - No smoking.

S24/25: Avoid contact with skin and eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S39: Wear eye/face protection.

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