Product Name: V BOARD MASTER S

Date of Issue: April 11, 2014

SDS No.: RI-114 Version: 001



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SDS No.:RI-114

# 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 S Product code : WBMA-VS-UF-B/R/L-BG

WBMA-VS-EF-B/R/L-BG

Mixture name : WMAM-B/L, WMA-R

1.2. Use of the mixture : Ink for writing instrument

1.3. Company identification e-mail address

Name of manufacture

/ supplier

Address

: PILOT CORPORATION OF EUROPE

: 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 <a href="http://www.centres-antipoison.net">http://www.centres-antipoison.net</a>

## 2. HAZARDS IDENTIFICATION

Based on the law and regulation in Japan

: Flammable liquid. Physical /Chemical hazards

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. Product Name: V BOARD MASTER S

## 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	39-77	All colors
Propan-2-ol	67-63-0	200-661-7	4-36	All colors
Propan-1-ol	71-23-8	200-746-9	<3	Black
Carbon black	1333-86-4	215-609-9	4.0	Black

#### 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 : None.

safety.

5.3 Special exposure hazards arising from the  $CO_2$ ,  $CO_2$ 

substance or mixture itself, combustion products

: CO<sub>2</sub>, CO, NO<sub>x</sub>, and SO<sub>x</sub>, are produced after

combustion.

5.4 Special protective equipment for fire-figters. : 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.

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## 7. HANDLING AND STORAGE

7.1. Handling : Avoid rough handling or dropping.

7.1.1 Protective measures
7.1.2 Measures to prevent aerosol and dust generation
7.1.3 Measures required to protect the environment
Not required in normal use.
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.
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
ii) Not required in normal use
iii) 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

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)

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Relative density : 0.81 -0.84 (at 20 degrees Celsius)

Solubility : Not applicable
Water solubility : Insoluble
Partition coefficient: n-octanol / water : No data

Viscosity : 6 · 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 vapours 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 : LDL<sub>0</sub> 1,400 mg/kg (human oral)

:  $LD_{50}$  7,060 mg/kg (rat oral)

propan-2-ol : LD<sub>50</sub> 5045 mg/kg (rat oral)

: LDL<sub>0</sub> 3570 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.

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12.4. Bioaccumulative potential
12.5. Results of PBT assessment
12.6. Other adverse effects
No data.
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 : Flammable Liquid N.O.S.(Ethanol)

14.3.1 Packing group : II

14.4.1 Marine pollutant : Not Marine Pollutant

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