Product Name: Cartridge for V BOARD MASTER

SAFETY DATA SHEET

Date of Issue: March 1, 2023

SDS No.: RI-023 Version: 011



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SDS No.: RI-023

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

Product code	UFI number
WBS-VBM-B	NX5K-4Y2T-8D0C-RNP2
WBS-VBM-L	K46K-4YFK-VD0C-2AU6
WBS-VBM-G	172A-EK76-0F0N-27DH

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 + IF IN EYES: Rinse cautiously with water for several minutes. Remove

P338 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 (EC)No 1272/2008	Component
Ethanol	64-17-5	200- 578-6	603-002 -00-5	01-21194 57610-43 -xxxx	35-45	Flam Liq.2 H225	All
Propan-2-ol	67-63-0	200- 661-7	603-117 -00-0	01-21194 57558-25 -xxxx	35-40	Flam Liq.2 H225 Eye lrrit. 2 H319 STOT SE 3 H336	All colors
Propan-1-ol	71-23-8	200- 746-9	603-003 -00-0	-	2.9	Flam liq. 2 H225 Eye Dam.1 H318 STOT SE3 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.

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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.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media : In case of fire, use water spray, foam, dry, chemical powder

or carbon dioxide.

5.2. Special hazards arising from

: CO₂, CO, NO_x, and SO_x, is produced after combustion.

the substance or mixture

5.3. Advice for firefighters : None

6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Data of France.

	Limit value - Eight hours	Limit value - Short term
Ethanol	1000 ppm	$5000~\mathrm{ppm}$
Propan-2-ol	_	400 ppm
Carbon black	$3.5~\mathrm{mg/m^3}$	_

: Wear protective gloves / protective clothing / eye protection / face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

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	: None				
explosive limits					
(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.

: 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 ₅₀ 11,500 mg/kg (rat oral)	

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	Propan-2-ol	: LD ₅₀ 3,437 mg/kg (rat oral)
		: LD ₅₀ 4,059 mg/kg (rabbit skin)
	Propan-1-ol	: LD ₅₀ 2,695 mg/kg (rat oral)
(b) skin corrosion/	Ethanol	: 400 mg open ; MILD (rabbit skin)
irritation	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
irritation		(rabbit eye)
	Propan-2-ol	: 100 mg/24h ; MODERATE
		(rabbit eye)
	Propan-1-ol	: 100 mg/24h ; MODERATE
		(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 ₅₀ - Salmo gairdneri-13,000 mg/L-96H
		EC ₅₀ - Daphnia magna-12,340 mg/L-48H
	Propan-2-ol	: LC ₅₀ - Fathead minnow- 11,130mg/L-96H
	Propan-1-ol	: EC ₅₀ - Daphnia magna(Water flea)-
		3,025 mg/L-48H
12.2. Persistence and	No data available	
degradability		
12.3. Bioaccumulative	No data available	
potential		
12.4. Mobility in soil	No data available	
12.5. Results of PBT and	No data available	
vPvB assessment		
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
14.6. Special precautions for user
14.7. Transport in bulk according to Annex II of
Not applicable.
Not applicable.

MARPOL 73/78 and the IBC Code

15. REGULATORY INFORMATION

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

16. OTHER INFORMATION

Hazard statement according to (EC) No 1272/2008

Precautionary St	atements	
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-sparkling 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	IF ON SKIN (or hair): Take off immediately all
	+P353	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

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			local, regional, nat	tional and international regulati	ons.	

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

Product Name: Cartridge for V BOARD MASTER

SAFETY DATA SHEET

Date of Issue: March 01, 2020

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SDS No.: RI-130

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-R/O

Mixture name : WMA-R/O

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

 $E\text{-mail address} \qquad \qquad \vdots pilotfrance@piloteurope.com$

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

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

Precautionary statement(s)

Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. -No smoking.

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P102 Keep out of reach of children.

Response

P370 + P378 In case of fire: Use water spray, foam, dry chemical powder or carbon dioxide

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for extinguish.

2.3. Other hazards None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS No.	EC No.	Index No.	REACH Registration No.	% Weight	Classification (EC)No 1272/2008	Component
Ethanol	64-17-5	200- 578-6	603-002	01-21194 57610-43 -xxxx	70-80	Flam Liq.2 H225	All colors
Propan-2-ol	67-63-0	200- 661-7	603-117 -00-0	01-21194 57558-25 -xxxx	4.9	Flam Liq.2 H225 Eye lrrit. 2 H319 STOT SE 3 H336	All colors

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

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.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media : In case of fire, use water spray, foam, dry, chemical powder

or carbon dioxide.

5.2. Special hazards arising from : CO₂, CO, NO_x, and SO_x, is produced after combustion.

the substance or mixture

5.3. Advice for firefighters : None

6. ACCIDENTAL RELEASE MEASURES

- 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

7. HANDLING AND STORAGE

- 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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

8.2. Exposure controls

: Wear protective gloves / protective clothing / eye protection / face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties		
(a) Appearance	: Red/Orange 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	: None	
explosive limits		
(k) Vapor pressure	: 40hPa (at 20 degrees Celsius, Ethanol)	
(l) Vapor density	: 1.6 (at 20 degrees Celsius, Ethanol)	

Product Name : Cartridge for V BOARD MASTER

(m) Relative density	: 0.82-0.83 (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	: 7.0-11.0 mPa·s (at 20 degrees Celsius)
(s) Explosive properties	: No data
(t) Oxidising properties	: No data
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 vapours which can be ignited.
	: Burning produces obnoxious and toxic
	fumes, carbon oxides.

11. TOXICOLOGICAL INFORMATION

Mixture: No data

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11.1. Information on toxicologic	al effects	
(a) acute toxicity	Ethanol : LD50 11,500 mg/kg (rat or	
	Propan-2-ol	: LD ₅₀ 3,437 mg/kg (rat oral)
		: LD ₅₀ 4,059 mg/kg (rabbit skin)
(b) skin corrosion/	Ethanol	: 400 mg open ; MILD (rabbit skin)
irritation	Propan-2-ol	: 500 mg open ; MILD (rabbit skin)
(c) serious eye damage/	Ethanol	: 100 mg/24h ; MODERATE
irritation		(rabbit eye)
	Propan-2-ol	: 100 mg/24h ; MODERATE
		(rabbit eye)
(d) respiratory or skin	No data available	
sensitisation		
(e) germ cell mutagenicity	No data available	
(f) carcinogenicity	No data available	
(g) reproductive toxicity	No data available	
(h) STOT-single exposure	Propan-2-ol	: May cause drowsiness or dizziness.
(i) STOT-repeated exposure	No data available	
(j) aspiration hazard	No data available	
L		

12. ECOLOGICAL INFORMATION

Mixture: No data.

12.1. Toxicity	Ethanol	: LC ₅₀ - Salmo gairdneri-13,000 mg/L-96H EC ₅₀ - Daphnia magna-12,340 mg/L-48H	
	Propan-2-ol	: LC ₅₀ - Fathead minnow- 11,130mg/L-96H	
12.2. Persistence and	No data available		
degradability			
12.3. Bioaccumulative	No data available		
potential			
12.4. Mobility in soil	No data available		
12.5. Results of PBT and	No data available		
vPvB assessment			
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
14.6. Special precautions for user
14.7. Transport in bulk according to Annex II of
Not applicable.
Not applicable.

MARPOL 73/78 and the IBC Code

15. REGULATORY INFORMATION

- 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

16. OTHER INFORMATION

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-sparkling tools.
	P243	Take action to prevent static discharges.

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oduct Name : Cartr	idge for V BOAI	RD MASTER	SDS No.: RI-130	Page 6/6
	P280	Wear protective gloves/protective clothing/eye		
		protection/face protection		
Response	P303+P361	IF ON SKIN (or hair): Ta	ke off immediately all	
	+P353	contaminated clothing. Ri	inse affected areas with v	vater.
Storage	P403+P235	Store in a well-ventilated	place. Keep cool.	
Disposal	P501	Dispose of contents and co	ontainer in accordance w	ith all
		local, regional, national a	nd international regulati	ons.

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