

SAFETY DATA SHEET

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SDS No.: RI-023
Version: 007



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/R/L/G/O/V

Mixture name : WMAM-B/L/G/V ,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 / supplier : 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

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 2 H225 (WMAM-B/L/G/V ,WMA-R/O)

Eye Damage / Eye Irritation 2 H319 (WMAM-B/L/G/V)

Specific target organ toxicity (Single exposure) 3 H336 (WMAM-B/L/G)

Classification according to Directive 1999/45/EC and its amendments

Highly flammable; F; R11

Irritating to eyes; Xi; R36 (WMAM-B/L/G/V)

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. (WMAM-B/L/G/V ,WMA-R/O)
 H319 Causes serious eye irritation. (WMAM-B/L/G/V)
 H336 May cause drowsiness or dizziness. (WMAM-B/L/G)

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.

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	67/548/EEC	
Ethanol	64-17-5	200-578-6	603-002-00-5	01-21194 57610-43 -xxxx	30-80	Flam Liq.2. H225	F; R11	All colors
Propan-2-ol	67-63-0	200-661-7	603-117-00-0	01-21194 57558-25 -xxxx	4.0-41	Flam Liq.2 H225 Eye Irrit. 2 H319 STOT SE 3 H336	F; R11 Xi; R36 R67	All colors
Propan-1-ol	71-23-8	200-746-9	603-003-00-0	-	1.0-2.9	Flam liq. 2 H225 Eye Dam.1 H318 STOT SE3 H336	F;R11 Xi;R41 R67	Black Violet
Carbon black	1333-86-4	215-609-9	Not applicable	-	4	Not classified	Not classified	Black
Coloring material	Trade secret	Trade secret	Trade secret	Trade secret	2.0-5.0	Not classified	Not classified	Except black
Additive agent	Trade secret	Trade secret	Trade secret	Trade secret	Remainder	Not classified	Not classified	All colors

H318: Causes serious eye damage.

R67: Vapours may cause drowsiness and dizziness.

R41: Risk of serious damage to eyes.

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 the substance or mixture : CO₂, CO, NO_x, and SO_x, is produced after combustion.
- 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	1000ppm	—
Propan-2-ol	—	400ppm

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	: Black/red/Blue/Green/Orange/Violet 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	: 0.81-0.85 (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	: 5.0-13.0 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		
Acute toxicity	Ethanol	: LD ₅₀ 7,060 mg/kg (rat oral) LDL ₀ 1,400 mg/kg (human oral)
	Propan-2-ol	: LD ₅₀ 5,045 mg/kg (rat oral) TDL ₀ 3,570 mg/kg (rabbit skin)
	Propan-1-ol	: LD ₅₀ 1,870mg/kg (rat oral) TDL ₀ 4,000 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)
Corrosivity	No data available	
Sensitization	No data available	
Mutagenicity	No data available	
Carcinogenicity	Carbon black	:IARC Class 2B
STOT-single exposure	Propan-2-ol	May cause drowsiness or dizziness.
	Propan-1-ol	May cause drowsiness or dizziness.
STOT-repeated exposure	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	LC50 - Salmon gairdneri- 13000mg/l-96H EC50 – Daphnia magna- 12340 mg/L-45H
	Propan-2-ol	LC50 fathead minnow- 11130mg/l-(96H)
	Propan-1-ol	EC50 – Daphnia magna(Water flea)- 3025 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.

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-sparking tools.
	P243	Take precautionary measures against static discharge.
	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 +P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
	P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	P337+P313	If eye irritation persists: Get medical advice and attention.
	P312	Call a POISON CENTER or doctor if you feel unwell.
	P370 + P378	In case of fire: Use water spray, foam, dry chemical powder or carbon dioxide for extinction.
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