

Material Safety Data Sheet

V BOARD MASTER

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1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION

1.1	Identification of the substance or preparation	
	Product Name	V BOARD MASTER
	Product Code	WBMA-VBM-F-B/R/L/G/O/V-BG WBMA-VBM-M-B/R/L/G/O/V-BG WBMA-VBM-MC-B/R/L/G/O-BG WBMA-VBM-B-B/R/L/G/O-BG WMBM-12L/18BM-B/R/L/G/O
	Preparation Name	WMAM-B/L/G/V, WMA-R/O
1.2	Use of the preparation	Ink for writing instrument

2. HAZARDS IDENTIFICATION

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.

3. FIRST AID MEASURES

Inhalation	Remove subject to ventilated fresh air. Consult doctor if necessary.
Ingestion	Refer for medical attention.
Skin Contact	Wash the affected area under tepid running water using a mild soap. Refer for medical attention if irritation continues.
Eye Contact	Gently rinse the affected eyes with clean water for at least 15 minutes. Refer for medical attention if irritation continues.
First aid facilities	Ensure eyewash and water services 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.

4. FIRE-FIGHTING MEASURES

4.1	Suitable extinguishing media	In case of fire, use water spray, foam, dry chemical powder or carbon dioxide.
4.2	Extinguishing media which shall not be used for safety	None
4.3	Special exposure hazards arising from the substance or preparation itself, combustion products.	CO ₂ , CO, NO _x , and SO _x are produced after combustion.
4.4	Special protective equipment for fire-fighters	Not required.
4.5	Additional information	None

5. ACCIDENTAL RELEASE MEASURES

5.1	Personal precautions	Use proper ventilation. Use eye and skin protection.
5.2	Environmental precautions	Do not dispose of waste to the sewer.
5.3	Methods for cleaning up	Absorb spill with material (cloth or paper), then place in chemical waste containers.
5.4	Additional information	None.

6. HANDLING AND STORAGE

6.1	Handling:	Avoid rough handling or dropping
	6.1.1 Protective measures	Not required in normal use.
	6.1.2 Measures to prevent aerosol and dust generation	Not required in normal use.
	6.1.3 Measures required to protect the environment	Not required in normal use.
	6.1.4 Specific requirements or handling rules	None
	6.1.5 Precautions against fire and explosion	Not required in normal use.

6.2	Storage	Store in a dry, cool, well-ventilated location, away from possible all source of ignition.
6.3	Specific use(s)	Not use it except the ink for writing instruments

7. EXPOSURE CONTROLS / PERSONAL PROTECTION

7.1	Exposure limit values	Not available	
	7.1.1 Occupational exposure controls	Not available	
	7.1.2 Biological limit values	Not available	
	7.1.3 DNEL and PNEC – value(s) as applicable	No data	
7.2	Exposure controls		
	7.2.1 Occupational exposure controls		
	a)	Respiratory protection	Not required in normal use
	b)	Hand protection	Not required in normal use
	c)	Eye protection	Not required in normal use
	d)	Skin protection	Not required in normal use
	7.2.2 Environmental exposure controls		
		Ethanol Propan-2-ol Propan-1-ol	1000 ppm 400 ppm 200 ppm

8. PHYSICAL AND CHEMICAL PROPERTIES

For ink unless otherwise specified		
8.1	General information	
	Appearance	Liquid (Colour) Black, Red, Blue, Green, Orange, Violet
	Odour	Alcohol odour
8.2	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)
	Vapour Density	1.6 (at 20 degrees Celsius, ethanol)
	Evaporation rate	No data
8.3	Other information	
	None	

9. STABILITY AND REACTIVITY

9.1	Conditions to avoid	Fire or intense heat may cause violent rupture of packages. Take precautionary measures against static discharges.
9.2	Materials to avoid	Strong oxidising agents and reducing agents.
9.3	Hazardous decomposition products	Heating can release vapours which can be ignited. Burning produces obnoxious and toxic fumes, carbon oxides..

10. TOXICOLOGICAL INFORMATION

For ink unless otherwise specified.		
10.1	Toxicokinetics, metabolism and distribution.	No data.
10.2	Acute effects (acute toxicity, irritation and corrosivity)	
	Acute toxicity	Ethanol: LD ₀ 1,040 mg/kg (human oral) LD ₅₀ 7,060 mg/kg (rat oral) Propan-2-ol: LD ₅₀ 5,045 mg/kg (rat oral) LDL ₀ 3,570 mg/kg (rabbit skin) Propan-1-ol: LD ₅₀ 1,870 mg/kg (rat oral) LDL 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)
10.3	Sensitisation	No data.
10.4	Repeated dose toxicity	No data.
10.5	CMR (carcinogenicity, mutagenicity, and toxicity for reproduction)	
	Carcinogenicity	Carbon Black IARC Class 2B

11. ECOLOGICAL INFORMATION

11.1	Ecotoxicity	No data.
11.2	Mobility	No data.
11.3	Persistence and degradability	No data.
11.4	Bioaccumulative potential	No data.
11.5	Results of PBT assessment	No data.
11.6	Other adverse effects	None

12. DISPOSAL CONSIDERATIONS

Follow all regulations in your country.

13. TRANSPORT INFORMATION

13.1	UN number	1993
13.2	Class	3
13.3	Proper shipping name	Not applicable
13.4	Packing group	Not applicable
13.5	Marine pollutant	Not applicable
13.6	Other applicable information	None

14. REGULATORY INFORMATION

Follow all regulations in your country.

15. 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

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