

Material Safety Data Sheet

CARTRIDGE FOR V BOARD MASTER

Date of Issue (ex-Japan) : September 3, 2012 Version: 007

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION

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 P-WMRF8-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: Flammable liquid. Acute toxic substance	
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 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.

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 a 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		
	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 :1000 ppm Propan-2-ol :400 ppm Propan-1-ol :200 ppm

8. PHYSICAL AND CHEMICAL PROPERTIES

For ink unless otherwise specified			
8.1	General information		
	Appearance	Liquid [Color]Black, Red, Blue, Green, Orange, Violet	
	Odour	Alcohol odor	
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 oxidizing 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 _{Lo} 1,400 mg/kg (human oral) : LD ₅₀ 7,060 mg/kg (rat oral) propan-2-ol : : LD ₅₀ 5045 mg/kg (rat oral) : LD _{Lo} 3570 mg/kg (rabbit skin) propan-1-ol : LD ₅₀ 1870 mg/kg (rat oral) : LD ₅₀ 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)
10.3	Sensitisation	No data.
10.4	Repeated dose toxicity	No data.
10.5	CMR (carcinogenity, 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.

Not hazardous waste.

13. TRANSPORT INFORMATION

13.1	UN number	1993
13.2	Class	3
13.3	Proper shipping name	Flammable Liquid N.O.S.(Ethanol)
13.4	Packing group	II
13.5	Marine pollutant	Not Marine Pollutant
13.6	Other applicable information	None

14. REGULATORY INFORMATION

Suit a standard of "Safety of toys" Part 3 (EN71-3)

Detrimental metallic elements are not containing.

(Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium)

15. OTHER INFORMATION

The information here is given in good faith, but no warranty, express or implied, is made.
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Final determination of suitability of any material is the sole responsibility of the user.
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END OF SDS

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