SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

•WRITING INSTRUMENT NAMES WBMA-VBM-B/M/MC-B,R,L,G,O(-BG) WBS-VBM-B,R,L,G,O
WMBM-12L/18BM-B,R,L,G,O P-WMRF8-B,R,L,G,O
•NAME OF MANUFACTURER / SUPPLIER PILOT CORPORATION
• ADDRESS 6–21, KYOBASHI 2–CHOME, CHUO–KU, TOKYO,
104–8304 JAPAN
•TELEPHONE NUMBER 03-3538-3700
•FAX NUMBER 03-3538-3901

2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE / MIXTURE	MIX	TURE
	CAS No	weight %
Ethyl alcohol	64-17-5	33-35
Isopropanol	67-63-0	34-40 (black, blue, green) 4.9 (red, orange)

3. HAZARDS IDENTIFICATION

·CLASS NAME OF HAZARDOUS CHEMICALS FOR SDS IN JAPAN		
FLAMMABLE LIQUID		
·PHYSICAL AND CHEMICAL HAZARDS	Flammable liquid	
· ADVERSE HUMAN HEALTH EFFECTS	Irritating to eyes.	
	Irritating to skin.	
•ENVIRONMENTAL EFFECTS	Not available	

4. FIRST-AID MEASURES

•EYE CONTACT	Gently rinse the affected eyes with clean water for at least 15 minutes.
	And refer for medical attention.
•SKIN CONTACT	Wash the affected area under tepid running water using a mild soap.
 INHALATION 	Remove the victim from the contamination immediately to fresh air.
	And refer for medical attention.
 INGESTION 	Refer for medical attention.

5. FIRE-FIGHTING MEASURES

•EXTINGUISHING MEDIA

In case of fire , use water spray , foam , dry chemical powder or carbon dioxide. • SPECIFIC HAZARD WITH REGARD TO FIRE-FIGHTING MEASURES

Apply water from a safe distance to cool and protect surrounding area.

6. ACCIDENTAL RELEASE MEASURES

Absorb spill with material (e.g.dry sand or earth , cloth) , then place in a chemical waste containers.

7. HANDLING & STORAGE •HANDLING	
	Avoid rough handling or dropping.
	Keep container tightly closed.
	Wear protective safety glasses, gloves.
• STORAGE	
	Inside storage should be in a well -ventilated ,noncombustible location ,away from all
	possible source of ignition.

8. EXPOSURE CONTROL /PERSONAL PROTECTION

·CONTROL PARAMETERS		
Ethyl	alcohol	1000ppm
Isopr	opanol	400ppm
•ENGINEERING MEASURES		
Use with local exhaust ventilation.		
PERSONAL PROTECTIVE EQUIPMENT		
 RESPIRATORY PROTECTION 	I	ndustrial Canister gas masks.
•EYE PROTECTION	S	afety glasses
•HAND, SKIN AND BODY PROTE	CTION R	ubber gloves

9. PHYSICAL & CHEMICAL PROPERTIES

•PHYSICAL STATE , FORM:	
• APPEARLANCE:	liquid
·COLOR:	black, blue, green, red, orange
•DENSITY:	0.83-0.85 (20.0°C)
•FLASH POINT	14.0°C (Ethyl alcohol)
•AUTOIGNITION TEMPERATURE:	392°C (Ethyl alcohol)
• UPPER AND LOWER EXPLOSION LIMIT:	19% (g/m^3) , 3.3 % (g/m^3) , Ethyl alcohol
• BOILING POINT:	78.3 °C (Ethyl alcohol)
• MELTING POINT:	-114.2°C (Ethyl alcohol)
• VAPOR PRESSURE:	44mmHg (20.0°C Ethyl alcohol)
•SOLUBILITY IN WATER	Insoluble
•SOLUBILITY IN:	

10.STABILITY & REACTIVITY	
•FLAMMABILITY	Flammable
•SPONTANEOUS COMBUSTIBILITY	Not available
•REACTIVITY WITH WATER	This material is stable.
•OXIDIZIBILITY	This material is stable
•SELF-REACTIVITY	This material is stable
•STABILITY & REACTIVITY	This product is considered a stable material under normal and
	anticipated storage and handling conditions

11. TOXICOLOGICAL INFORMATION	
·CORROSIVE AND IRRITANT PROPERTIES	Not available
·ALLERGENIC AND SENSITIZING EFFECTS	Not available
• ACUTE TOXICITY	Not available
•SUB-CHRONIC TOXICITY	Not available
·CHRONIC TOXICITY	Not available
·CARCINOGENIC EFFECTS	Not available
• MUTAGENIC EFFECTS	Not available
•EFFECTS ON THE REPRODUCTIVE SYSTEM	Not available
•TERATOGENIC EFFECTS	Not available

12. ECOLOGICAL INFORMATION

 BIODEGRADABILITY 	
 BIOACCUMULATION 	
·FISH TOXICITY	

13. DISPOSAL CONSIDERATION

Follow all regulations in your country.

Not available Not available Not available

14. TRANSPORT INFORMATION

·UN CLASS:

·UN No.:

Follow all regulations in your country. Class 3 1993

15. REGULATORY INFORMATION

Follow all regulations in your country.

16. OTHER INFORMATION

REFERENCES

The information here is given in good faith ,but no warranty ,express or implied , is made.