



576 MINAMIKYOBATE-CHO, 7-CHOME, NARA-SHI  
630 JAPAN  
MAIL : P.O. BOX 24, NARA FAX : 0742-50-2077  
PHONE: 0742-50-2055 TELEX: 5522150 ZIG J

21305-XXXX

1

<b>Material Safety Data Sheet</b>		KURETAKE CO., LTD. 576 Minamikyobate-cho, 7 chome, Nara-shi, 630 Japan.	
IDENTITY (As Used on Label and List) ZIG Memory System Millennium #MS-005/08, CALLIGRAPHY #MS-3400, WRITER #MS-6600, SCROLL & BRUSH #MS-5000(ink)			
<b>Section I</b>			
Manufacturer's Name KURETAKE CO., LTD.		Emergency Telephone Number 0742-50-2055	
Address 576 Minamikyobate-cho, 7 chome, Nara-shi, 630 Japan.		Telephone Number for Information 0742-50-2055	
		Date Prepared: October 29, 1996	
<b>Section II - Hazardous Ingredients/Identity Information</b>			
Hazardous Components (Specific Chemical Identity, Common Name(s))			
	OSHA PEL	ACGIH TLV	Other Limits Recommended % (optional)
Ethylene glycol		TWA 50 ppm (vapor)	2 - 9
Carbon black (in black color)		TWA 3.5 mg/m3	1 - 10
<b>Section III - Physical/Chemical Characteristics</b>			
Boiling Point	N. D.	Specific Gravity (H2O = 1)	1.07 - 1.13
Vapor Pressure (mm Hg.)	N. D.	Melting Point	N. D.
Vapor Density (AIR = 1)	N. D.	Evaporation Rate (Butyl Acetate = 1)	N. D.
Solubility in water: soluble completely			
Appearance and Odor: colored liquid with low viscosity, odorless			
<b>Section IV - Fire and Explosion Hazard Data</b>			
Flash Point (Method Used) N. A.	Flammable Limits N. A.	LEL N. A.	UEL N. A.
Extinguishing Media: N. A.			
Special Fire Fighting Procedures: N. A.			
Unusual Fire and Explosion Hazards: None			

V4069

N.A. = Not Applicable, N.D. = Not Determined.



370 MINAMIKITABA, ECHO, ACHOME, NA: A-SHI.  
830 JAPAN  
MAIL : P.O. BOX 24, NARA FAX : 0742-50-2077  
PHONE: 0742-50-2055 TELEX: 6522150 ZIG J.

2

ZIG Memory System OPAQUE WRITER #MS-10 (ink)			
<b>Section V - Reactivity Data</b>			
Stability	Unstable		Conditions to avoid:
	Stable	X	
Incompatibility (materials to Avoid):		N. D.	
Hazardous Decomposition or Byproducts:		N. D.	
Hazardous Polymerization	May Occur		Conditions to avoid:
	Will not Occur	X	
<b>Section VI - Health Hazard Data</b>			
Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	No	No	Yes
<b>Health Hazards (Acute and Chronic)</b>			
Acute oral toxicity: LD-50 > 2,030 mg/kg (Black, Blue & Gold Ink)			
Carcinogenicity:	N. D. NTP?	IARC Monographs?	OSHA Regulated?
Sign and Symptoms of Exposure: None expected.			
Medical Conditions Generally Aggravated Exposure: None.			
<b>Emergency and First Aid Exposure:</b>			
Eyes: Immediately flush with water enough, see a physician.			
Skin: Wash with soap water. Ingestion: Do not induce vomiting. See a physician.			
<b>Section VII - Precautions for safe Handling and Use</b>			
Steps to Be Taken in Case Materials Is Released Spilled:			
Wash with soap water and remove with cloth.			
<b>Waste Disposal Method:</b>			
Waste disposal should be in accordance with the existing environmental regulation.			
<b>Precautions to Be Taken in Handling and Storing:</b>			
Do not store under direct sunlight.			
<b>Other Precautions:</b>			
Do not take internally.			
<b>Section VIII - Control Measures</b>			
Respiratory Protection (Specify Type):		Not required.	
Ventilation	Local Exhaust	Special	Other
	Not required.	Mechanical (General)	
Protective Gloves:	Not required.	Eye Protection:	Not required.
Other Protective Clothing or Equipment		Not required.	
Work/Hygiene Practices: Standard procedure.			