



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

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Material Safety Data Sheet		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)			
Section I			
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	
Section II - Hazardous Ingredients/Identity Information			
Hazardous Components (Specific Chemical Identity, Common Name(s))		OSHA PEL	ACGIH TLV
		Other Limits Recommended % (optional)	
Ethylene glycol		TWA	50 ppm (vapor)
Carbon black (in black color)		TWA	3.5 mg/m ³
			2 - 9
			1 - 10
Section III - Physical/Chemical Characteristics			
Boiling Point	N. D.	Specific Gravity (H ₂ O = 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			
Section IV - Fire and Explosion Hazard Data			
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			

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



378 MIRAMIKUTOBAI E-CHO, A-CHOME, NARA: 637-577.
 E30 JAPAN
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ZIG Memory System OPAQUE WRITER #MS-10 (ink)			
Section V - Reactivity Data			
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	
Section VI - Health Hazard Data			
Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	No	No	Yes
Health Hazards (Acute and Chronic)			
Acute oral toxicity: LD-50 > 2,000 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.			
Emergency and First Aid Exposure:			
Eyes: Immediately flush with water enough, see a physician.			
Skin: Wash with soap water. Ingestion: Do not induce vomiting. See a physician.			
Section VII - Precautions for safe Handling and Use			
Steps to Be Taken in Case Materials is Released Spilled:			
Wash with soap water and remove with cloth.			
Waste Disposal Method:			
Waste disposal should be in accordance with the existing environmental regulation.			
Precautions to Be Taken In Handling and Storing:			
Do not store under direct sunlight.			
Other Precautions:			
Do not take internally.			
Section VIII - Control Measures			
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/Hygenic Practices: Standard procedure.			