

Material Safety Data Sheet		KURETAKE CO., LTD. 576 Minamikyobate-cho, 7 chome, Nara-shi, 630-8670 Japan.		
IDENTITY (As Used on Label and List) ZIG POSTERMAN PMA-10,20,25,30,50,120,130S,150 (ink)				
Section I				
Manufacturer's Name KURETAKE CO., LTD.		Emergency Telephone Number +81-742-2055		
Address 576 Minamikyobate-cho, 7 chome, Nara-shi, 630-8670 Japan.		Telephone Number for Information +81-742-2055		
		Date Prepared: September 6, 2007		
Section II - Hazardous Ingredients/Identity Information				
Hazardous Components (Specific Chemical Identity: Common Name(s))		OSHA PEL	ACGIH TLV	Other Limits Recommended % (optional)
Denatured ethyl alcohol (except metallic colors)			TWA 1000 ppm	2 - 4
Carbon black (Black)			TWA 3.5 mg/m ³	8 - 12
Titanium dioxide (except black and metallic colors)			TWA 10 mg/m ³	15 - 28
Section III - Physical/Chemical Characteristics				
Boiling Point	OVER 100°C	Specific Gravity (H ₂ O = 1)	Metallic	1.09-1.26
			Other colors	1.06-1.08
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	LEL	UEL
		N.A.		
Extinguishing Media:		N.A.		
Special Fire Fighting Procedures:		None		
Unusual Fire and Explosion Hazards:		None		
Section V - Reactivity Data				
Stability	Unstable		Conditions to avoid:	
	Stable	X		
Incompatibility (materials to Avoid):		None		
Hazardous Decomposition or Byproducts:		None		
Hazardous Polymerization	May Occur		Conditions to avoid:	
	Will not Occur	X		

N.A. = Not Applicable.

N.D. = Not Determined.

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Section VI - Health Hazard Data			
Route(s) of Entry:	Inhalation ? No	Skin ? No	Ingestion ? Yes
Health Hazards (Acute and Chronic) None expected. Acute oral toxicity: LD-50 > 2,000 mg/kg (Blacj, Blue & Gold ink)			
Carcinogenicity:	NTP? None	IARC Monographs?	OSHA Regulated ?
Sign and Symptoms of Exposure: None expected.			
Medical Conditions Generally Aggravated Exposure: None			
Emergency and First Aid Procedures: Eyes: Immediately flush with water enough and 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 water and remove with cloth.			
Waste Disposal Method: Waste dispozal should be in accordance with the existing enviromental regurrantion.			
Precautions to Be Taken in Handling and Storing: Do not store under direct sunlight.			
Other Precautions: Do not tale internally.			
Section VIII - Control Measures			
Respiratory Protection (Specify Type): Not required.			
Ventilation None required.	Local Exhaust Mechanical (General)	Special Other	
Protective Gloves:	None required.	Eye Protection:	None required.
Other Protective Clothing or Equipment: None required.			
Work/Hygienic Practices: Standard procedure.			