



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

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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, NA: A-SHY.
 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. | | | |