

11/03/93 15:09 SAKURA OF AMERICA → 12006218293

NO. 367 - F003

(4159 all codes) (green pigma pen micron)

20702 - 7001
 - 7003
 - 7005
 - 7008

APR 11 1993

MATERIAL SAFETY DATA SHEET

IDENTITY (As Used on Label and List)
 Pigma (XSDK)#36, 29, 24, 21, 19, 12, 5

Box 97 - all codes

Section I

| | |
|--|--|
| Manufacturer's Name SAKURA COLOR PRODUCTS CORP. | Emergency Telephone Number |
| Address 1-6-20, MORINOHAYA CHUO, CHUO-KU, OSAKA, 540 JAPAN | Telephone Number for Information (06)910-8800 |
| | Date Prepared 11 March, 1993 |
| | Signature of Preparer Tomoko Tsujimoto |

Section II - Hazardous Ingredients/Identity Information

| Hazardous Components | OSHA PEL | ACGIH TLV | Other Limits Recommended | % |
|----------------------|-------------------------------------|-----------------|--------------------------|---------------|
| PIGMENT | 15mg/m ³ (Nuisance dust) | | | 5 - 10 (INK) |
| ETHYLENE GLYCOL | MB | CL 50ppm(VAPOR) | | 10 - 25 (INK) |

N-3668

Section III - Physical/Chemical Characteristics

| | | | | |
|-----------------------|---------------------------------|--------------------------------------|-----------|------------------|
| Boiling Point | ABOUT 100°C(INK) | Specific Gravity(H ₂ O=1) | (at 25°C) | 1.04 - 1.18(INK) |
| 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 (except pigments)(INK) | | | |
| Appearance and Odor | Water based marker with no odor | | | |

Section IV - Fire and Explosion Hazard Data

| | | | | |
|------------------------------------|-----------------------------------|------------------|----------|----------|
| Flash Point(Method Used) | n.d.(116°C<)(INK) | Flammable Limits | LEL n.d. | UEL n.d. |
| Extinguishing Media | water, fog, foam, CO ₂ | | | |
| Special Fire Fighting Procedures | none | | | |
| Unusual Fire and Explosion Hazards | none | | | |

n.a.: not applicable n.d.=not determined

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Section V-Reactivity Data

| | | | |
|-----------|----------|---|---------------------|
| Stability | Unstable | | Conditions to avoid |
| | Stable | 0 | |

Incompatibility(Materials to avoid): None

Hazardous Decomposition or Byproducts: It won't occur from normal handling.

| | | | |
|--------------------------|---------------|---|---------------------|
| Hazardous Polymerization | May Occur | | Conditions to avoid |
| | May Not Occur | 0 | |

Section VI-Health Hazard Data

Routes of Entry: Inhalation? No Skin? Yes Ingestion? Yes

Health Hazards(Acute and Chronic): This product is approved by ACHI(The Art and Craft Materials Institute, inc.) in the United States as a non-toxic product.

Carcinogenicity: None NTP? IARC Monographs? OSHA Regulated?

Signs and Symptoms of Exposure: It won't occur from normal handling.

Medical Conditions Generally Aggravated by Exposure:

It won't occur from normal handling.

Emergency and First Aid Procedures: Eyes: Immediately flush eyes with copious amounts of running water(for 10 minutes), if necessary see an oculist. Ingestion: It may be necessary medical advice. Skin: Rinse with running water and soap.

Section VII-Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled: The ink is not spilled so that it soaked into the ink-reservoir. In case of stuck, rinse with soap and water or wipe-off with alcohol etc.

Waste Disposal Method: Incinerate under safe conditions or dispose of in accordance with Federal, state's or local regulation.

Precautions to Be Taken in Handling and Storing: After using, close the cap tightly.

Other Precautions:

Section VIII-Control Measures

Respiratory Protection(Specific Type): Not necessary

| | | | | |
|-------------|---------------------|---------------|---------|---------------|
| Ventilation | Local Exhaust | Not necessary | Special | Not necessary |
| | Mechanical(General) | Not necessary | Other | Not necessary |

Protective Gloves: Not necessary Eye Protection: Not necessary

Other Protective Clothing or Equipment: Not necessary

Work/Hygiene Practices: In case of stuck to the skin, rinse with soap and water.