

20702-1005 -2002 -2003 -2004  
 -2005 -2009 -2102 -2103 -2105  
 -3001 -3002 -3003 -3005 -3006  
 -3008 -5001 -5002 -5003 -5004  
 -5005 -5102 -7003 -7005 -7008

**MATERIAL SAFETY DATA SHEET**  
**PIGMA MICRON PEN**

Security (as applicable), Label, and List  
 Pigma (XSDK) #49

**Section I**

Manufacturer's Name SAKURA COLOR PRODUCTS CORP.	Emergency Telephone Number
Address 1-6-20, MORINOMIYA 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 Componets	OSHA PEL	ACGIH TLV	Other Limits Recommended	%
CARBON BLACK	III B	3.5mg/m <sup>3</sup>	IARC(group-3)	1 - 10 (INK)
ETHYLENE GLYCOL	III B	CL 50ppm(VAPOR)		10 - 25 (INK)

**Section III-Physical/Chemical Characteristics**

Boiling Point	ABOUT 100°C(INK)	Specific Gravity(H <sub>2</sub> O=1)	(at25°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)			
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. CO2			
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	●	

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	●	

**Section VI-Health Hazard Data**

Route(s) 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.

Teratogenicity: NTP? IARC Monograph? group-3 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 VI-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 VII-Control Measures**

Respiratory Protection(Specify 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/Hygienic Practices In case of stuck to the skin, rinse with soap and water.