

06/14/96 07:52 SAKURA OF AMERICA → 18006218293

NO. 713 P001

20817-XXXX

Material Safety Data Sheet
 May be used to comply with
 OSHA's Hazard Communication Standard,
 29 CFR 1910.1200. Standard must be
 consulted for specific requirements.

U.S. Department of Labor
 Occupational Safety and Health Administration
 (Non-Mandatory Form)
 Form Approved
 OMB No. 1218-0072



IDENTITY (As Used on Label and List)
 Sakura Pen-touch Gold/Silver/White

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name SAKURA COLOR PRODUCTS CORP.	Emergency Telephone Number
Address (Number, Street, City, State, and ZIP Code) 6-20 1-Chome, Morinomiya-chuo, Chuo-ku, Osaka-City, Osaka Pref.	Telephone Number for Information OSAKA (06) 910-8800
	Date Prepared 1992-04-24 1/2
	Signature of Preparer (optional)

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity: Common Name(s))	%	CAS No.	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)	
						U.S.A.	Europe
ALUMINUM (#53)	0-10	7429-90-5		10mg/m ³	OSHA, ACGIH		
COPPER (#51)	0-20	7440-50-8		TWA1mg/m ³ (DUST AND MISTS)	OSHA, ACGIH		
TITANIUM DIOXIDE (#50)	0-70	13463-67-7	15mg/m ³	10mg(Ti)/m ³	OSHA, ACGIH		
2-BUTOXYETHANOL (#53)	0-10	111-76-2	TWA50ppm	TWA25ppm	OSHA, ACGIH		
PROPYLENEGLYCOL	0-75	107-98-2		100ppm	OSHA, ACGIH	FLAMMABLE	
METHYL ETHER							

Section III — Physical/Chemical Characteristics

Boiling Point	n.d.	Specific Gravity (H₂O = 1)	1 <
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 Containing soluble components (principal solvent etc.)

Appearance and Odor Color pen with a smell of ether

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used) About 34°C (TAG CLOSED)	Flammable Limits	LEL n.d.	UEL n.d.
Extinguishing Media CO ₂ , Dry Chemical, Foam			
Special Fire Fighting Procedures none			

Unusual Fire and Explosion Hazards CO_x, Al (#53,), H₂(#53)

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Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	x	none

Incompatibility (Materials to Avoid) High Temperature, Fire, Direct Rays of The Sun, A Powerful Oxidizing Agent

Hazardous Decomposition or Byproducts

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	x	none

Section VI — Health Hazard Data

Route(s) of Entry: Inhalation? yes Skin? yes Ingestion? yes

Health Hazards (Acute and Chronic) n.d.

Carcinogenicity: NTP? IARC Monographs? OSHA Regulated?

(NTP, IARC Monograph, OSHA, other laws and regulations)

Signs and Symptoms of Exposure

Abundant inhalation stimulates eyes, mucous membrane, etc. Large amounts of ink's repeated contact with skin causes dermatitis.

Medical Conditions Generally Aggravated by Exposure Normal use is supposed to cause no such condition; however, inhalation of highly concentrated vapor of this ink's chief ingredients produces anesthetic condition, and such longtime condition may have adverse effects upon liver and kidney.

Emergency and First Aid Procedures Inhalation: If he/she has subjective and objective symptoms, move him/her to a place with fresh air and consult a doctor.

Eyes: Give stimulation. Immediately wash eyes with large amounts of water for over 15 min. and consult a doctor. Skin: Wash well with large amounts of water. If not removed, use soapy water etc. Intake: Consult a doctor.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled

When attached to other parts, wash out with soap, alcohol, etc.

Waste Disposal Method

Dumping by laws, regulations and standards of each central, state and local government.

Precautions to Be Taken in Handling and Storing After using, a cap should be tightly put on.

Don't put it in a place with rather high temperature.

Other Precautions

Section VIII — Control Measures

Respiratory Protection (Specify Type) It is supposed to be unnecessary in normal use; however, a point to which attention should be paid is that the permitted concentration of a main solvent, ACGIH, in air is 100 ppm.

Ventilation	Local Exhaust	Desirable	Special	100 ppm.
	Mechanical (General)	Desirable	Other	

Protective Gloves Unnecessary in normal use Eye Protection Unnecessary in normal use

Other Protective Clothing or Equipment

Work/Hygienic Practices Take care not to attach it to eyes and skin and not to inhale vapor.

PLEASE NOTE: This product has been certified by the Art & Craft Material Institute, and carries the "AP" seal of non-toxic approval.