

MATERIAL SAFETY DATA SHEET

#97750-97754

8/25/93 192

IDENTITY (As Used on Label and List)

Ballsign(XPGB), GELLY ROLL(373), YELLOW, ORANGE, BROWN, RED, ROSE, PURPLE, YELLOW GREEN, GREEN, BLUE, BLACK, ROYAL BLUE. #3, 5, 12, 19, 21, 24, 27, 29, 36, 49, 138

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 20 August, 1993
	Signature of Preparer Tomoko Tsujimoto

Section II-Hazardous Ingredients/Identity Information

Hazardous Componets	OSHA PEL	ACGIH TLV	Other Limits Recommended	%
CARBON BLACK (CAS No.1333-88-4)(Only for BLACK)	air TWA3.5mg/m ³	3.5mg/m ³	IARC-group3	0 - 25 (INK)
GLYCERINE(MIST) (CAS No.56-81-5)		TWA10mg/m ³ VAPOR		1 - 20 (INK)
ETHYLENE GLYCOL(VAPOR) (CAS No.107-21-1)		CL 50ppmVAPOR		3 - 12 (INK)
POLYACRYLIC ACID (CAS No.9003-01-4)(Only for BLACK, RED, BLUE, GREEN, YELLOW GREEN, YELLOW)			IARC-group3	0 - 1 (INK)
SODIUM HYDROXIDE (CAS No.1310-73-2)(Only for BLACK, RED, BLUE, YELLOW, YELLOW GREEN, ROYAL BLUE)	air TWA2mg/m ³	CL 2mg/m ³	IARC-group3	0 - 0.2(INK)

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Section III-Physical/Chemical Characteristics

Boiling Point	n.d.	Specific Gravity(H2O=1)	1<(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 Odorless waterbased roller ball

Section IV-Fire and Explosion Hazard Data

Flash Point(Method Used)	n.d.	Flammable Limits	LEL n.d.	UEL n.d.
Extinguishing Media	watering, foam, drychemical, CO ₂			
Special Fire Fighting Procedures	nothing			
Unusual Fire and Explosion Hazards	nothing			

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) n.d.

Cardiogenicity: NTP? IARC Monographs? group-3 (Please refer to Section II of page 1) OSHA Regulated?

Signs and Symptoms of Exposure n.d.

Medical Conditions Generally Aggravated by Exposure n.d.

Emergency and First Aid Procedures Eyes: Immediately flush eyes with copious amounts of running water (for 15 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 stucked, rinse with soap and water or wipe off with cloth.

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 Nothing special