

MATERIAL SAFETY DATA SHEET (MSDS)		PIGMENT ROLLER FLUORESCENCE VIOLET INK INKA FPV	
PRODUCERS <input checked="" type="checkbox"/>			
FOR SUPPLIER <input type="checkbox"/>			
WAREHOUSERS <input type="checkbox"/>			
Section I GENERAL INFORMATION			
Manufacturer's Name OHTO Co., Ltd. (JAPAN)		Emergency Tel. No. TOKYO 03-3864-7441	
Address #364-1 Namiki-nishi, Hokunan-moro, Yuuki city, Ibaraki-Prif., 307-01 JAPAN		Telephone Number 0296-35-2311 Tele. Fax. Number 0296-35-2319 Date Prepared 11 .NOV , 1999	
		Signature <i>Zensuke Koruta</i> ZENSUKE KORUTA	
SECTION II HAZARDOUS INGREDIENTS/IDENTITY INFORMATION			
Hazardous Ingredients (Chemical or common name)	CAS No.	TLV	WT%
Styrene Acrylonitrilic Copolymer	CAS #	9003-54-7	
C-I Basic Violet 1	CAS #	8004-87-3	
C-I Basic Violet 7	CAS #	6441-82-3	
1,2-Ethan diol	CAS #	107-21-1	
Ptassium Olate	CAS #	143-18-0	
Polyoxyethylene nonylphenyl ether	CAS #	9106-45-9	
Benzotriazole	CAS #	95-14-7	
Water			
SECTION III PHYS./CHEM. CHARACTERISTICS (specify component)			
Appearance and odour: Violet liquid, Odorless		Component : Water based ink	
Boiling point (°C) : 100°C		Density (g/cm ³) : 1.042	
Vapour density (Air 1) : n.d		Melting point (°C) : 0°C	
Solubility in water : 100%		Evaporation rate (butylacetate-1) : n.d	
pH (at=20°C) : 7.22		Viscosity (cp at 20°C) : 3.33	
Surface tension (dyne/cm) : 29.2			
Pressurized <input type="checkbox"/> yes <input type="checkbox"/> no <input checked="" type="checkbox"/>		% volatile** : n.d	
Other characteristics : NONE			
SECTION IV - FIRE AND EXPLOSION HAZARD DATA			
Flash point method used : n.a	Explosion limits (Vol. %)	LEL n.a	UEL n.a
Extinguishing media : n.a			
Special fire fighting precautions : n.a	Autoignition temp. (°C) : n.a		
List hazardous products of decomposition			
Other advice : NONE			
IMPORTANT			
(*) Part of the mixture which evaporates.			
Not applicable = n.a.			
Not determined = n.d.			

SECTION V - STORAGE HAZARDS			
Stability unstable <input type="checkbox"/>	Conditions		
stable <input checked="" type="checkbox"/>	to avoid	NONE	
Incompatibility (materials to avoid)		NONE	
List hazardous products of decomposition		n.d.	
Hazardous polymerization	May occur <input type="checkbox"/> Will not occur <input checked="" type="checkbox"/>	Condition to avoid	NONE
SECTION VI - HEALTH HAZARDS			
1.Acute	n.d.	2.Chronic	n.d.
Signs and symptoms of overexposure			NONE
Medical conditions generally aggravated by exposure			n.d.
Chemical listed as carcinogen			NONE
Emergency and first aid procedures		n.a.	
Routes of entry	Emergency procedure		Seek medical advice
Inhalation	NONE		<input type="checkbox"/>
Eyes	Wash with water		<input checked="" type="checkbox"/>
Skin	Wash with soap water.		<input type="checkbox"/>
Ingestion	Give water, and person vomit		<input type="checkbox"/>
SECTION VII - SPECIAL PRECAUTIONS			
Special precautions to be taken in handling			NONE
Other precautions			NONE
Steps to be taken in case material is released or spilled	Wash off inks and Wash with detergents and Water.		
Waste disposal methods	Dispose the waste ordinary.		
SECTION VIII - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES			
Respiratory protection (specify type)		Not necessary	
Ventilation	Local exhaust	Mechanical (general)	Other
yes	no	n.a.	n.a.
Skin and eye protection	not required but use of safety-goggles preferable		
Work/hygienic practices	not required, use protective clothing if necessary		