U.S. Department of Labor Material Safety Data Sheet Occupational Safety and Health Administration May be used to comply with OSHA's Hazard Communication Standard. (Non-Mandatory Form) 29 CFR 1910.1200, Standard must be Form Approved OMB No.1218-0072 consulted for specific requirements. IDENTITY(As Used on Label and List) Note :Blank spaces are not permitted. If any item is not applicable. or no information is available, the space must be marked to PFPE1074ZA, PFPE1075ZA, KX-FA53, KX-FA53A, indicate that. KX-FA55, KX-FA55A, KX-FA55D, KX-FA55X Section I **Emergency Telephone Number** Manufacturer's Name DAI NIPPON PRINTING CO.,LTD. +81-42-952-9666 Telephone Number for information Address: +81-42-952-9666 591-2, Kamihirose, Higashikubo, Sayama, Date prepared November 6, 2000 Saitama, 350-1321 JAPAN Signature of Preparer (optional) Ai doiching Hideichiro Takeda / Mgr. of Technical Dept. Section II - Hazardous Ingredients/Identity Information Other Limits OSHA PEL ACGIH TLV Recommended Hazardous Components (Specific Chemical Identity, Common Name(s)) %(optional) 46~53%) Polyethylene terephthalate film (CAS No. 25038-59-9) Coating layer substances 3.5mg/m3 3.5mg/m3 None 8-- 11%) Carbon Black (CAS No. 1333-86-4) 2-6%) Ester Wax (CAS No. 8015-86-9) None 2.0mg/m3 None 28~ 34%) Paraffin Wax (CAS No. 8002-74-2) Ethylene Vinil Acetete Copolymer (CAS No. 24937-78-8) None 2-7%) None 2-9%) Others Section III - Physical/Chemical Characteristic **Bailing Point** Specific Gravity (H2O=1) About 1.2 Not apolicable Meltina Point 66°C Vapor Pressure (mmHg) Not applicable Evaporation Rate (Butyl Acetate=1) Vapor Density (AIR = 1) Not applicable Negligible Solubility in water Negliable Appearance and Odor ink is black solid with slight odor. Section IV - Fire and Explosion Hazard Data Flammable Limits LEL Flash point (Method Used) Not applicable Not applicable Not applicable About 250℃ for ink Extinguishing Media CO2, Water, Dry Chemicals, Foam Special Fire fighting Procedures For large quantities (i.e. truckload or pallet) involved in a fire, firefighters should wear self-contained breathing apparatus and protective ciothina. Unusual Fire and Explosion Hazards None OSHA 174, Sept. 1985 (Reproduce locally)

Section V - Rea	ctivity Data			erin Os.				gar ye t G
Stability	Unstable		Conditions to Avoid None				- (
	Stable	to	144.0					
Incompatibility (Materia None	als to Avoid)	1 <u>_</u>						
Hazardous Decomposition or Byproducts CO,CO2,NOX and H2O etc.								
Hazardous Polymerization	May Occur		Conditions to Avoid None	•				
	Will Not Occur	0						
Section VI - Health Hazard Data								
Route(s) of Entry:		lı	nhalation? No	Sidn? No	<u>.</u>	Ingestion?	but very unus	ısl .
Health Hazards(Acute	and Chronic)			110	_ _	розоны	the tory died	
All the ingredients a			Test species ;S. typhimu					
Carcinogenicity:		N	ITP? No		nographs? n Black : Grou	OSHA Reg p 2B No	ulated?	
carbon black at levels that black and lung tumors. Mon and tumor development in n Epidemiology studies of wor cancer, even in high excess	induce perficie overlo eover, a biro-year can ats. Idens in the carbon bit ure occupational sett ack. "Chronic over eo	and of the coar bloa ack prot incas, in	alation exposures to free carbone lung. Studies performed in essay using a typical toner pre- fucing industries of North Ame addition, in its reevaluation of a many dusts, including carbon	animal mod paration cor rica and We I carbon bis	eis other than rat Maining carbon bli Stern Europe do r ck. IARC concluc	s have not demonstrated no a ack demonstrated no a not demonstrate an ass led that "there is inad	ied an association association between acciation between acciation between acciation between	between carbon in toner exposure carbon black and in humans for the
None			· · · · · · · · · · · · · · · · · · ·					
Medical Conditions Generally Aggravat	ed by Exposure		None		:			
Emergency and First / Not applicable	Aid Procedures							· · · · · · · · · · · · · · · · · · ·
	ecautions f	or S	afe Handling and	l Use				
is used , motor sho after removal of loo Waste Disposal Metho Dispose by the sar	ict may cause the build be rated as o se film or dust. id ne method of ord	wax I	ayer to peel off. Sweep of the control of the contr	iff skin wit dance with	h soap and w	ater. Garments ma e regulations. Any	ey be wasted of	or dry cleaned
compliance with loc	cal, state and fede	eral lav	vs and regulations. If neo	essary, c	ontact governr	nent office and en	sure conformity	with disposal
regulations. Precautions to Be Tak	en in Handling an	rd Shr	ioa.					
No special precauti			- · · · · · · · · · · · · · · · · · · ·					
Other Precautions None								
Section VIII - C	ontrol Meas	sure	S			77,77		
Respiratory Protection Not required	(Specify Type)		<u>, -i</u>					
Ventilation			Exhaust		· · · · · · · · · · · · · · · · · · ·	Special No		
No.			o nanical(General)	ingl(Congress)			· · · · · · · · · · · · · · · · · · ·	
•		N				Other No.	· .	
Protective Gloves Not required		L	· · · ·		tection required			
Other Protective Cloti	ning or Equipmen	t					A CONTRACTOR	
Work/Hygienic Practic	æs							
(Reproduce locally)								, Sept. 1985 inber 6, 2000