

Material Safety Data Sheet

U.S. Department of Labor

May be used to comply with

Occupational Safety and Health Administration

OSHA's Hazard Communication Standard,

(Non-Mandatory Form)

29 CFR 1910.1200. Standard must be

Form Approved

consulted for specific requirements.

OMB No.1218-0072

IDENTITY(As Used on Label and List)

**EN7**

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

DAI NIPPON PRINTING CO.,LTD.

Emergency Telephone Number

042-952-9666

Address:

591-2, Kamihirose, Higashikubo, Sayama,  
Saitama, 350-1321  
JAPAN

Telephone Number for information

042-952-9666

Date prepared April 18, 2003

Signature of Preparer (optional)

Hirokazu Kaneko / Mgr. of Technical Dept.

**Section II - Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	%(optional)
Polyethylene terephthalate film (CAS No. 25038-59-9)				( 48~ 53%)
Coating layer substances				
Carbon Black (CAS No. 1333-86-4)	3.5mg/m3	3.5mg/m3	None	( 7~ 11%)
Paraffin Wax (CAS No. 8002-74-2)	-	2.0mg/m3	None	( 10~ 15%)
Microcrystalline Wax (CAS No. 63231-60-7)	-	-	None	( 16~ 22%)
Ethylene Vinyl Acetate Copolymer(CAS No. 24937-78-8)	-	-	None	( 1~ 5%)
Others	-	-	None	( 2~ 10%)

**Section III - Hazardous Ingredients/Identity Information**

Boiling Point	Not applicable	Specific Gravity (H2O=1)	About 1.2
Vapor Pressure (mmHg)	Not applicable	Melting Point	71°C
Vapor Density (AIR = 1)	Not applicable	Evaporation Rate (Butyl Acetate=1)	Negligible

Solubility in water

Negligible

Appearance and Odor

Ink is black solid with slight odor.

**Section IV - Fire and Explosion Hazard Data**

Flash point (Method Used)	Flammable Limits	LEL	UEL
About 250°C for ink	Not applicable	Not applicable	Not applicable

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 clothing.

Unusual Fire and Explosion Hazards

None

(Reproduce locally)

OSHA 174, Sept. 1985

April 18, 2003

## Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid None
	Stable	<input type="radio"/>	

Incompatibility (Materials to Avoid)  
None

Hazardous Decomposition or Byproducts  
CO,CO2,NOX and H2O etc.

Hazardous Polymerization	May Occur		Conditions to Avoid None
	Will Not Occur	<input type="radio"/>	

## Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? No	Skin? No	Ingestion? possible but very unusual.
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Health Hazards(Acute and Chronic)  
All the ingredients are negative mutagenic(Test species ;S. typhimurium )

Carcinogenicity:	NTP? No	IARC Monographs? Carbon Black : Group 2B	OSHA Regulated? No
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Signs and Symptoms of Exposure  
None

Medical Conditions  
Generally Aggravated by Exposure          None

Emergency and First Aid Procedures  
Not applicable

## Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Rumpling the product may cause the wax layer to peel off. Sweep up or vacuum. When sweeping , avoid raising film or dust. If a vacuum is used , motor should be rated as dust tight. Wash any residue off skin with soap and water. Garments may be wasted or dry cleaned after removal of loose film or dust.

Waste Disposal Method

Dispose by the same method of ordinary plastic products in accordance with all applicable regulations. Any disposal practice must be in compliance with local, state and federal laws and regulations. If necessary, contact government office and ensure conformity with disposal regulations.

Precautions to Be Taken in Handling and Storing.  
No special precautions for safety reason.

Other Precautions  
None

## Section VIII - Control Measures

Respiratory Protection (Specify Type)  
Not required

Ventilation	Local Exhaust No	Special No
	Mechanical(General) No	Other No

Protective Gloves Not required	Eye Protection Not required
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Other Protective Clothing or Equipment  
None

Work/Hygienic Practices  
None