Revised Date: 1998. Oct. 27 Date Issued: 1996. Feb. 9

## MATERIAL SAFETY DATA SHEET (1/2)

MSDS No. B-1006

Section 1. Product Identification

Product Code: UX-10CR, FO-16CR, UX-15CR, FO-15CR, PRBNN2005SCZZ For use with: FO-1450, FO-1460, FO-1660M, FO-730, UX-310, UX-370, UX-470

IMAGING FILM

Section 2. Supplier's Name and Address

Sharp Corporation

22-22 Nagaike-cho, Abeno-ku, Osaka, Japan

Local suppliers are listed below. Please contact the nearest supplier for additional information.

(Country)	(Name and Telephone Number)	I"				
U.S.A.	Sharp Electronics Corporation					
	Telephone number for information:	1-800-237-4277				
	Emergency telephone number :	1-800-255-3924				
Canada	Sharp Electronics of Canada Ltd.	/				
	Telephone number for information:	905-890-2100				
	Emergency telephone number :	1-800-424-9300				
United	Sharp Electronics(U.K.)Ltd.					
Kingdom	Telephone number for information:	01923-474013				

Section 3. Ingredients					
Ingredients	Cas No.	Proportion	OSHA PEL	ACGIH TLV	Other Limits
Polyethylene terephthalate	25038 <b>-</b> 59-9	51.0%			— Emiles
Carbon black	1333-86-4	8.5%	3.5mg/m <sup>3</sup>	3.5mg/m <sup>3</sup>	
Ethylene-vinyl acetate copolymer	24937-78-8	3.1%	<del>-</del>		
Ester wax	8015-86-9	5.6%			
Paraffin wax	8002-74-2	12.5%	<del></del>	2mg/m³ (fume	)
Microcrystalline wax	63231 <b>-</b> 60-7	15.2%	. ——	(Turne,	/ 
Modified wax	8016-60-2	1.3%	<del></del> , .		
Polyester resin	27923-68-8	1.3%			
Others		1.5%			
Polyester resin		1.3%	<del></del>		

Section 4. Hazardous Identification (Emergency Overview)

This product is ink film for thermal transfer facsimil.

"Ink film" is a thin film coated with ink. It is no special hazard under normal use condition.

		rd Data
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Route(s) of Entry:

Inhalation?

Skin?

Ingestion?

Health Hazards:

not applicable not applicable possible but very unusual

The ingredients are not listed in ACGIH(1986) and OSHA(1989)

except carbon black and paraffin wax.

Carcinogenicity:

In 1996 the IARC reevaluated carbon black as a Group 2B carcinogen

(possible human carcinogen). This classification is given to chemicals for which there is inadequate human evidence, but sufficient animal evidence on which to base an opinion of

carcinogenicity. The classification is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at levels that induce particle overload of the lung. Studies performed in animal models other than rats did not show any association between carbon black and lung tumors.

Signs and Symptoms of Exposure: not applicable

Medical Conditions Generally Aggravated by Exposure: not applicable

Emergency and First Aid Procedures: not applicable

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## MATERIAL SAFETY DATA SHEET (2/2)

MSDS No. B-1006

Section 6. Physical Chemical Characteristics

Boiling/Melting Point: m.p. about 70°C for ink

Vapor Pressure: not applicable. Vapor Density: not applicable

Evaporation Rate: negligible

Appearance: thin film coated with ink

Odor: slight wax odor

Specific Gravity: about 1

Solubility in Water: negligible

PH: not applicable

Viscosity: not applicable

Color: black

Section 7. Fire and Explosion Data

Flash Point (Method Used): about 250°C for ink

Ignition Temperature: not applicable

Flammable Limits: (LEL); not applicable

(UEL); not applicable

Extinguishing Media: CO<sub>2</sub>, water, dry chemicals and foam etc.

Special Fire Fighting Procedure: none Unusual Fire and Explosion Hazard: none

Sensitivity to Mechanical Impact: no hazardous effect by mechanical impact

Sensitivity to Static Charge: not applicable

Section 8. Reactivity Data

Stability: stable

Incompatibility (Materials to Avoid): none Hazardous Decomposition: not applicable Hazardous Polymerization: not applicable

Section 9. Precautions for Safe Handling and Use

Personal Protection Information(Respiratory, Eye Protection and Protective Glove):

not required

Engineering Control/Ventilation: not required

Work/Hygienic Practice: none

Steps to be taken in case of Spill or Leak:

If rumple the product and wax layer peel off, sweep up or clean with vacuum cleaner.

If it dirty skin, wash with water and soap. If it dirty clothes, wash by suitable method.

Waste Disposal Method:

Dispose in an approved incinerator or contract with licensed chemical disposal agency. Ensure conformity with governmental disposal regulations. (Dispose by the same method of ordinally plastic products.)

Section 10. Regulatory Information

NFPA Rating (U.S.A.): no information

WHMIS Legislation(Canada): not controlled

Transport Information: no information

UN No.: no information

Section 11. Other Information

Reference: IARC (1996) Monographs on the Evaluation of the Carcinogenic Risk of

Chemicals to Humans, Vol. 65, Printing Process and Printing inks, Carbon

Black and Some Nitro Compounds, Lyon, pp-149-261

H. Muhle, B. Bellmann, O. Creutzenberg, C. Dasenbrock, H. Ernst,

R. Kilpper, J. C. Mackenzie, P. Morrow, U. Mohr, S. Takenaka, and

R. Mermelstein (1991) Pulmonary Response to Toner upon Chronic Inhalation

Exposure in Rats.

Fundamental and Applied Toxicology 17, pp. 280-299