

## MATERIAL SAFETY DATA SHEET (1/2)

MSDS No. B-1006

## Section 1. Product Identification

Product Code: UX-10CR, FO-16CR, UX-15CR, FO-15CR, PRBNN2005CZZ IMAGING FILM  
 For use with : FO-1450, FO-1460, FO-1660M, FO-730, UX-310, UX-370, UX-470

## 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)
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 Kingdom	Sharp Electronics(U.K.)Ltd. Telephone number for information: 01923-474013

## Section 3. Ingredients

Ingredients	Cas No.	Proportion	OSHA PEL	ACGIH TLV	Other Limits
Polyethylene terephthalate	25038-59-9	51.0%	—	—	—
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%	—	—	—
Ester wax	8015-86-9	5.6%	—	—	—
Paraffin wax	8002-74-2	12.5%	—	2mg/m <sup>3</sup> (fume)	—
Microcrystalline wax	63231-60-7	15.2%	—	—	—
Modified wax	8016-60-2	1.3%	—	—	—
Polyester resin	27923-68-8	1.3%	—	—	—
Others	—	1.5%	—	—	—

## 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.

## Section 5. Health Hazard Data

Route(s) of Entry : Inhalation? Skin? Ingestion?  
 not applicable not applicable possible but very unusual

Health Hazards : 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

## 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 ordinaly 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