

Date Revised : Nov, 7, 2002
 Date Issued : Feb, 9, 1996
 MSDS No. B-1006

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : UX-10R, FO-16CR, UX-15CR, FO-15CR, UX-3CR, FO-3CR, NX-3CR, PRBNN2005SCZZ
 (IMAGING FILM)

Supplier Identification : Sharp Corporation
 22-22 Nagaike-cho, Abeno-ku, Osaka, Japan

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

Area	Country	Name and Telephone Number
North America	U.S.A.	Sharp Electronics Corporation Sharp Plaza, Mahwah, NJ 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 : 1-800-255-3924
Oceania	Australia	Sharp Corporation of Australia PTY. Ltd. No1 Huntingwood Drive Huntingwood Blacktown N.S.W. Telephone number for information : 1300-13-50-22
Europe	Germany	Sharp Electronics (Europe) GMBH Sonninstrasse 3, 20097 Hamburg Telephone number to access MSDS : 040-2376-2185 For more information : 040-2376-2613
	United Kingdom	Sharp Electronics (U. K.) Ltd. Telephone number for information : 08705-274-277
	France	Sharp Electronics France S.A. Telephone number for information : 01-49-90-34-00
	Austria	Sharp Electronics GMBH Telephone number for information : 01-727-19-0
	Italy	Sharp Electronics (Italy) S.P.A. Telephone number for information : 02895951
	Spain	Sharp Electronics (Espana) S.A. Telephone number for information : 93-581-97-00
	Netherlands	Sharp Electronics Benelux B.V. Telephone number for information : 30-6359500
	Sweden	Sharp Electronics Nordic AB Telephone number for information : 08-634-36-00
Middle East	Switzerland	Sharp Electronics(Schweiz)AG Telephone number for information : 01-846-6111
	U.A.E.	Sharp Middle East FZE P.O.Box 17115 Jebel Ali, Dubai Telephone number for information : 04-815311

2.COMPOSITION / INFORMATION ON INGREDIENTS

Substance[]	Preparation[X]					
Ingredient	CAS No.	Proportion	OSHA PEL	ACGIH TLV	MAK-TWA	NOHSC-TWA
Polyethylene terephthalate	25038-59-9	51.0%	-	-	-	-
Carbon black	1333-86-4	8.5%	3.5mg/m3	3.5mg/m3	-	-
Ethylene-vinyl acetate copolymer	24937-78-8	3.1%	-	-	-	-
Ester wax	8015-86-9	5.6%	-	-	-	-
Paraffin wax	8002-74-2	12.5%	-	2mg/m3(fume)	-	-
Microcrystalline wax	63231-60-7	15.2%	-	-	-	-
Modified wax	8016-60-2	1.3%	-	-	-	-
Polyester resin	27923-68-8	1.3%	-	-	-	-
Others	-	1.3%	-	-	-	-

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3. HAZARDS IDENTIFICATION**Most Important Hazards and Effects of the Products :**

This product is ink film for thermal transfer facsimile. "Ink film" is a thin film coated with ink. It is no special hazard under normal use condition.

Directive 1999/45/EC(Europe) : Not classified as dangerous**Health Hazards :** The ingredients are not listed in ACGIH(1986) and OSHA(1989) except carbon black and paraffin wax.**4. FIRST-AID MEASURES****Route(s) of Entry :** Inhalation?

not applicable

Skin?

not applicable

Ingestion?

possible but very unusual

Inhalation : If symptoms persist, consult a physician.**Skin Contact :** If irritation persists, consult a physician.**Eye Contact :** If irritation persists, consult a physician.**Ingestion :** If stomach upset persists, consult a physician.**Medical Conditions Generally Aggravated by Exposure** not applicable**Emergency and First Aid Procedures** not applicable**Signs and Symptoms of Exposure** not applicable**5. FIRE-FIGHTING MEASURES****Extinguishing Media :** CO2, water, dry chemicals and foam etc.**Unsuitable Extinguishing Media :** no information**Hazardous Combustion Products :** not applicable**Special Fire Fighting Procedures :** none**6. ACCIDENTAL RELEASE MEASURES**

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.

7. HANDLING AND STORAGE**Handling :****Precautions :** Keep out of the reach of children.**Safe Handling Advice :****Engineering Control / Ventilation :** not required**Personal Protection Information(Respiratory, Eye Protection and Protective Glove) :** not required**Specific use :**

This product is for use as intended in Sharp equipment.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Engineering Measures****Ventilation :** not required**Personal Protective Equipment****Respiratory Protection :** not required**Hand Protection :** not required**Eye Protection :** not required**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance :****Physical State :** Form : thin film coated with ink**Color :** black**Odor :** slight wax odor**Ph :** not applicable**Boiling / Melting Point :** m.p. about 70°C for ink**Flash Point(°C) :** about 250°C for ink**Ignition Point(°C) :** not applicable**Flammable Limits :** (LEL); no data available

(UEL); no data available

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Vapor Pressure	: not applicable
Solubility in Water	: negligible
Viscosity	: not applicable
Vapor Density	: not applicable
Evaporation Rate	: negligible
Sensitivity to Mechanical Impact	: no hazardous effect by mechanical impact
Sensitivity to Static Charge	: not applicable

10. STABILITY AND REACTIVITY

Stability	: stable
Materials to Avoid	: none
Hazardous Decomposition Products	: not applicable
Further Information	: not applicable
Unusual Fire and Explosion Hazard	: none

11. TOXICOLOGICAL INFORMATION

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.

12. ECOLOGICAL INFORMATION

no information

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

UN Number	: no information
Class	: no information
Proper Shipping Name	: no information
Packing Group	: no information
Marine Pollutant	: no information
Special Precautions	: no information

15. REGULATORY INFORMATION

US Information :	
TSCA (Toxic Substances Control Act) :	All chemical substances in this product comply with all applicable rules or order under TSCA.
Canada Information :	
Canadian Domestic Substances List (DSL) or Non Domestic Substances List (NDSL) :	not required
EU Information :	
1999/45/EC and 67/548/EEC :	
Symbol & Indication	: not required
R-Phrase	: not required

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16. OTHER INFORMATION

EU Risk (R) Phrase definitions : not required**NFPA Rating (USA)** : Health= no information Flammability= no information Reactivity= no information**WHMIS Legislation (Canada)** : not controlled**Restrictions:** This information relates only to the specific material designated as supplied by the manufacturer. This information is supplied to us by the manufacturer and Sharp offers no warranties as to its accuracy and accepts no responsibilities for any typographical errors which may appear on these sheets. It is the responsibility of the user to determine the suitability of this product for each particular use.**References :**

IARC(1996) : IARC 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.

Revision Record :

Nov. / 7 / 2002 Change : Adoption of new form based on 2001/58/EC (EU).