## SHARP

MSDS No. P-00081

## **MATERIAL SAFETY DATA SHEET (1/2)**

#### Section 1. Product Identification

Product :

UX-36ND (Black Toner)

#### 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 : 1-800-255-3924
United	Sharp Electronics (U.K.) Ltd.
Kingdom	Telephone number for information: 01923-474013

#### Section 3. Ingredients

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Ingredients	<u>CAS No.</u>	<b>Proportion</b>	<u>OSHA PEL</u>	<u>ACGIH TĻV</u>	Other Limits
Carbon black	1333-86-4	4.0%	3.5mg/m៓	3.5mg/mຼິ	None
Silica	68909-20-6	1.0%	80.0mg/m្°	6.0mg/m	None
Iron oxide	1317-61-9	1.0%	5.0mg/m <sup>3</sup>	10.0mg/m <sup>3</sup>	None
Styrene-Acrylate copolymer	25767-47-9	90.5%	Not listed	Not listed	None
Organic pigment mixture		0.5%	Not listed	Not listed	None
	109125-51-1				
	109125-50-0	(total for	the pigment mix	(ture)	
	84179-66-8				
Polypropylene	25085-53-4	1.5%	Not listed	Not listed	None
Polyethylene	9002-88-4	1.5%	Not listed	Not listed	None
Section 4. Hazardous	Identification (Er	nergency	Overview)		

Toner is a fine, black powder possessing no immediate hazard. There are no anticipated carcinogenic effects from exposure based on animal tests performed using toner. When used as intended according to instructions, studies do not indicate any symptoms of fibrosis will occur.

Section 5. Health Hazard Data			
Route(s) of Entry : <u>Inhalation?</u>	<u>Skin?</u>	Ingestion?	
Yes	No	Possible but very unusual.	
Health Hazards : Acute oral toxicity	LD50 of this ton	er is over 2000mg./kg.	
Mutagenicity I	he result of Ames te	est is negative.	
<b>Carcinogenicity</b> : In 1996 the IARC	reevaluated carbon	black as a Group 2B carcinogen (possible	
human carcinogen). This o	classification is give	n to chemicals for which there is	
inadequate human evidence	e, but sufficient anii	mal evidence on which to base an opinion of	
carcinogenicity. The class	ification is based up	on the development of lung tumors in rats	
receiving chronic inhalation	exposures to free	carbon black at levels that induce	
particle overlead of the lun	a Studios porform	ad in animal models other than rate did	
	g. Studies perioriti		
not snow any association t	between carbon bia	ck and lung tumors. Moreover, a two-year	
cancer bioassay using a ty	pical toner prepara	tion containing carbon black demonstrated no	
association between toner	exposure and tumo	or development in rats.	
Chronic Effect : In a study in rats of	of chronic inhalation	exposure to a typical toner, a mild to moderate	е
degree of lung fibrosis was	s observed in 92% (	of the rats in the high concentration $16 \text{ mg/m}^3$ )	
(exposure group, and a mi	nimal to mild degre	e of fibrosis was noted in22% of the animals	
in the middle (4ma/m <sup>3</sup> ) exp	osure aroup, but no	pulmonary change was reported in the	
lowest (1mg/m <sup>3</sup> ) exposure	group, the most rel	evant level to potential human exposures.	

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## **MATERIAL SAFETY DATA SHEET (2/2)**

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#### Section 5. Health Hazard Data (Continued)

Signs and Symptoms of Exposure : Minimal irritation to respiratory tract may occur as with exposure to

any non-toxic dust.

Medical Conditions Generally Aggravated by Exposure : None

Emergency and First Aid Procedures :

Inhalation --- Remove to fresh air. If effects occur, consult medical personnel.

Eye --- In case of contact, immediately flush eyes with water for 15 minutes.

#### Section 6. Physical Chemical Characteristics

BoilingMelting Point	: Not applicable	Specific Gravity	:	1.1
Vapor Pressure	: Not applicable	Solubility in Water	:	Negligible
Vapor Density	: Not applicable	PH	:	Not applicable
Evaporation Rate	: Not applicable	Viscosity	:	Not applicable
Appearance	: Fine powder	Color	:	Black
Odor	: Odorless			

Section 7. Fire and Explosion Data

Flash Point (Method Used)	:	Not applicable	
Ignition Temperature	:	No data available	
Flammable Limits	:	(LEL); Not applicable	(UEL); Not applicable
Extinguishing Media	:	CO2, dry chemical, foam or wa	ater
Special Fire Fighting Procedure	:	None	
Unusual Fire and Explosion Hazard	:	This material has no unusual fir	e or explosion hazards.
Sensitivity to Mechanical Impact	:	None	
Sensitivity to Static Charge	:	None	

#### Section 8. Reactivity Data

Stability	: Stable
Incompatibility (Material to Avoid)	: None
Hazardous Decomposition	: CO and NOx
Hazardous Polymerization	: Will not occur.

#### Section 9. Precautions for Safe Handling and Use

Personal Protection Information (Res	piratory, Eye Protection and Protective Glove):
Use of a dust mask is recomme	nded when handling a large quantity of toner or during long
term exposure, as with any non	-toxic dust.
Engineering Control / Ventilation	: Not required.
Work / Hygienic Practice	: Inhalation should be minimized as with any non-toxic dust.
Steps to be taken in case of Spill or L	eak : Sweep up or clean up with vacuum cleaner.
Waste Disposal Method	: Waste material may be disposed under conditions which meet all federal, state and local environmental regulations.

# Section 10. Regulatory Information NFPA Rating (U.S.A.) : Health = 1 Flammability = 1 Reactivity = 0 WHMIS Legislation (Canada) : This product is not a controlled product. Transport Information : This product is not a hazardous material. UN No. : None allocated.

#### Section 11. Other Information

**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