# SHARP

Data Revised : Oct. 1, 1999 Date Issued : Sep. 6, 1995

# MATERIAL SAFETY DATA SHEET (1/2)

MSDS No. P-00041

Section 1. Product Identification

Product:

<u>JX-92NT / JX-92TC / UX-36ND / FO-36DC (Black Toner)</u> For use with : <u>JX-9200</u>, <u>JX-9210</u>, <u>JX-9230</u>, <u>F-3600M</u>

# 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					

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<u>Ingredients</u>	CAS No.	<b>Proportion</b>	OSHA PEL	<b>ACGIH TLV</b>	Other Limits
Carbon black	1333-86-4	4%	3.5mg/m <sup>3</sup>	3.5mg/m <sup>3</sup>	None
Styrene acrylate copolymer	25767-47-9	89%	Not listed	Not listed	None
Organic pigment		2%	Not listed	Not listed	None
	109125-51-1				
	109125-50-0				
	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
Silica	68909-20-6	1%	80mg/m <sup>3</sup>	6mg/m <sup>3</sup>	None
Iron oxide	1317-61-9	1%	Not listed	Not listed	None

## Section 4. Hazardous Identification (Emergency 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> <u>Ingestion?</u>

Yes No Possible but very unusual.

**Health Hazards**: Acute oral toxicity --- LDL<sub>0</sub> of this toner is over 2,000mg/kg.

Mutagenicity --- The result of Ames test is negative.

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. Moreover, a two-year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure

and tumor development in rats.

Chronic Effect : In a study in rats of chronic inhalation exposure to a typical toner, a mild to moderate degree

of lung fibrosis was observed in 92% of the rats in the high concentration (16mg/m<sup>3</sup>)

exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4mg/m<sup>3</sup>) exposure group, but no pulmonary change was reported in the lowest

(1mg/m<sup>3</sup>) exposure group, the most relevant level to potential human exposures.

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

any non-toxic dust.

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## Section 5. Health Hazard Data (Continued)

**Emergency and First Aid Procedures** :

Remove to fresh air. If effects occur, consult medical personnel. Inhalation: In case of contact, immediately flush eyes with water for 15 minutes. Eye

Section 6. Physical Chemical Characteristics

Boiling / Melting Point : Not applicable **Specific Gravity** 1.1

**Vapor Pressure** Not applicable Solubility in Water Negligible **Vapor Density** Not applicable 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** Not applicable

Flammable Limits (LEL); Not applicable (UEL); Not applicable

**Extinguishing Media** CO2. dry chemical, foam or water

**Special Fire Fighting Procedure** 

**Unusual Fire and Explosion Hazard** This material has no unusual fire 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 (Respiratory, Eye Protection and Protective Glove):

Use of a dust mask is recommended 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 Leak: Sweep up or clean up with vacuum cleaner.

**Waste Disposal Method** Waste material may be dumped or incinerated under conditions

which meet all federal, state and local environmental regulations.

## Section 10. Regulatory Information

NFPA Rating (U.S.A.) Flammability = 1 Health = 1Reactivity = 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, Ö. 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