

**Material Safety Data Sheet**  
 May be used to comply with  
 OSHA's Hazard Communication Standard,  
 29 CFR 1910.1200. Standard must be  
 consulted for specific requirements.

**U.S. Department of Labor**  
 Occupational Safety and Health Administration  
 (Non-Mandatory Form) MSDS NO. F-3251-1  
 Form Approved \*Not applicable  
 OMB No. 1218-0072

**IDENTITY (As Used on Label and List)**  
 SF-830ND1 Black Developer

*Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.*

**Section I**

<b>Distributor's Name</b> Sharp Electronics Corporation	<b>Emergency Telephone Number</b> 201-529-9223
<b>Address (Number, Street, City, State, and ZIP Code)</b> Sharp Plaza, Mahwah, NJ 07430	<b>Telephone Number for Information</b> 201-529-8200
<b>Manufacturer's Name</b> Sharp corporation	<b>Date Prepared</b> Apr. 5, 1989
<b>Address</b> 22-22, Nagaike-cho, Abeno-ku, Osaka, JAPAN	<b>Signature of Preparer (optional)</b>

**Section II — Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (approx)
Carbon black (CAS No. 1333-86-4)	3.5 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup>	None	0.2-0.2
None hazardous ingredients				
Ferrite carrier	—	Not listed	None	> 99.0
Iron Oxide/Copper Oxide/Zinc Oxide				
Styrene-Acrylate copolymer	—	Not listed	None	< 3.68
Polypropylene	—	Not listed	None	< 0.12
Polyethylene	—	Not listed	None	< 0.12
Organic Ammonium Salt	—	Not listed	None	< 0.12

**Section III — Physical/Chemical Characteristics**

<b>Boiling Point</b>	n. s.	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	about 2.
<b>Vapor Pressure (mm Hg.)</b>	n. s.	<b>Melting Point</b>	n. s.
<b>Vapor Density (AIR = 1)</b>	n. s.	<b>Evaporation Rate (Butyl Acetate = 1)</b>	n. s.
<b>Solubility in Water</b>	Negligible		
<b>Appearance and Odor</b>	Fine, black powder, odorless		

**Section IV — Fire and Explosion Hazard Data**

<b>Flash Point (Method Used)</b>	<b>Flammable Limits</b>	<b>LEL</b>	<b>UEL</b>
n. s.		n. s.	n. s.
<b>Extinguishing Media</b>	CO <sub>2</sub> , dry chemical, foam or water.		
<b>Special Fire Fighting Procedures</b>	This material will burn in the case of fire.		
<b>Unusual Fire and Explosion Hazards</b>	The decomposition products are CO, CO <sub>2</sub> and NO <sub>x</sub> .		
	This material has no unusual fire or explosion hazards.		

## Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid	None
	Stable	x		

Incompatibility (Materials to Avoid)

None

Hazardous Decomposition or Byproducts

CO, CO<sub>2</sub>, and NO<sub>x</sub>

Hazardous Polymerization	May Occur		Conditions to Avoid	None
	Will Not Occur	x		

## Section VI — Health Hazard Data

Route(s) of Entry:                      Inhalation?                      \*Yes                      Skin?                      No                      Ingestion?                      Possible but very unusual

Health Hazards (Acute and Chronic)

LD<sub>50</sub> value of the toner, which is included in this developer, in an oral acute toxicity test is over 5,0g/kg.

Carcinogenicity:                      NTP?                      No                      IARC Monographs?                      No                      OSHA Regulated?                      No

Signs and Symptoms of Exposure

Minimum irritation to respiratory tract may occur as with exposure to any non-toxic dust

Medical Conditions

Generally Aggravated by Exposure

Accumulation of dust in the respiratory system.

Emergency and First Aid Procedures

Inhalation: Remove to fresh air if effects occur, consult local medical personnel.

Eyes: In case of contact, immediately flush eyes with water for 5 minutes.

## Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Sweep up or clean up with a vacuum cleaner.

Waste Disposal Method

Waste material may be dumped or incinerated under conditions which meet all federal, state and local environmental regulations.

Precautions to Be Taken in Handling and Storing

No special storage requirements for safety reasons.

Other Precautions

None

## Section VIII — Control Measures

Respiratory Protection (Specify Type)

None required under normal use

Ventilation	Local Exhaust	No	Special	No
	Mechanical (General)	No	Other	No

Protective Gloves                      None required under normal use

Eye Protection                      None required under normal use

Other Protective Clothing or Equipment

None required under normal use

Work/Hygienic Practices

Inhalation should be avoided