

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)  
 Form Approved  
 OMB No. 1215-0072 MSDS No. F-3361-2



IDENTITY (As Used on Label and List)  
 SF-222ND1, 222SD1, 222DV1

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

Distributor's Name  
 Sharp Electronics Corporation

Emergency Telephone Number  
 1-800-255-3924

Address (Number, Street, City, State, and ZIP Code)  
 Sharp Plaza, Mahwah, N.J 07430 U.S.A.

Telephone Number for Information  
 201-529-8200

Manufacturer's Name  
 Sharp Corporation

Date Prepared  
 June 17, 1992

Address  
 22-22, Nagaike-cho, Abeno-ku, Osaka, JAPAN

Signature of Preparer (optional)

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Carbon black (CAS No. 1333-86-4)	3.5mg/m <sup>3</sup>	3.5mg/m <sup>3</sup>	None	< 0.3

None hazardous ingredients

Ferrite carrier	-	Not listed	None	> 94%
Iron oxide (CAS No. 1309-37-1)				
Copper oxide (CAS No. 1317-38-0)				
Zinc oxide (CAS No. 1314-13-2)				
Styrene-Acrylate copolymer (CAS No. 25767-47-9)	-	Not listed	None	< 5%
Organic ammonium salt (CAS No. 102561-46-6)	-	Not listed	None	< 1%

Section III — Physical/Chemical Characteristics

Boiling Point	* n.a.	Specific Gravity (H <sub>2</sub> O = 1)	about 5
Vapor Pressure (mm Hg.)	n.a.	Melting Point	n.a.
Vapor Density (Air = 1)	n.a.	Evaporation Rate (Butyl Acetate = 1)	n.a.

Solubility in Water

Non-soluble

Appearance and Odor

Dark, black powder, odorless

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	n.a.	Flammable Limits	LEL n.a.	UEL n.a.
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Extinguishing Media

CO<sub>2</sub>, dry chemical, foam or water

Special Fire Fighting Procedures

This material will burn in the case of fire.

The decomposition products are CO, CO<sub>2</sub> and NOx.

Unusual Fire and Explosion Hazards

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?	Skin?	Ingestion?
	Yes	No	Possible but very unusual

Health Hazards (Acute and Chronic)

LDLO value of the toner, which is included in this developer, in an oral acute toxicity test is over 2.0g/kg

The result of Ames Test is negative.

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