

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. 1218-0072



IDENTITY (As Used on Label and List)
SF-890DV1 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

Distributor's Name Sharp Electronics Corporation	Emergency Telephone Number 201-529-9223
Address (Number, Street, City, State, and ZIP Code) Sharp Plaza, Mahwah, NJ 07430	Telephone Number for Information 201-529-8200
Manufacturer's Name Sharp Corporation	Date Prepared DEC. 17, 1987
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 ³	3.5mg/m ³	None	<0.3%
None hazardous ingredients				
Ferrite carrier	-	Not listed	None	>95%
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%

Section III — Physical/Chemical Characteristics

Boiling Point	* n.a.	Specific Gravity (H ₂ 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	Negligible		
Appearance and Odor	Dark, black powder, odorless		

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
n.a.		n.a.	n.a.
Extinguishing Media	CO ₂ , dry chemical, foam or water		
Special Fire Fighting Procedures	This material will burn in the case of fire		
Unusual Fire and Explosion Hazards	The decomposition products are CO, CO ₂ and NO _x		
	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, CO₂ and NO_x

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) IDLO value of the toner, which is included in this developer, in an oral acute toxicity test is over 5 g/kg.

The result of Ames Test is negative.

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 effect 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 condition 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

Protective Clothing or Equipment None required under normal use
 Work/Hygienic Practices Inhalation should be avoided.