

## 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-90DV

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 201-529-3200
Manufacturer's Name Sharp Corporation	Date Prepared Jan 20, 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 <sup>3</sup>	3.5mg/m <sup>3</sup>	None	0.5
(None hazardous ingredients)				
Metal iron (CAS No. 7439-89-6)	Not listed		None	90.0
Toner (SF-90T) ... (All except carbon black)		"	"	9.5

## Section III — Physical/Chemical Characteristics

Boiling Point	* N.A.	Specific Gravity (H <sub>2</sub> O = 1)	4.83
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	Fine black powder, odorless.		

## Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	N.A.	Flammable Limits	LEL N.A.	UEL N.A.
Extinguishing Media	CO <sub>2</sub> , 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 <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 NOx.

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 5.0g/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.