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.

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

Section I

Distributor's Name
Sharp Electronics Corporation

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

Manufacturer's Name
Sharp Corporation

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

Emergency Telephone Number
1-800-255-3924

Telephone Number for Information
201-529-8200

Date Prepared
June 17, 1992

Signature of Preparer (optional)

Section II — Hazardous Ingredients/Identity Information

<table>
<thead>
<tr>
<th>Hazardous Component</th>
<th>CAS No.</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits Recommended</th>
<th>% (optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon black</td>
<td>1333-86-4</td>
<td>3.5mg/m³</td>
<td>3.5mg/m³</td>
<td>None</td>
<td>&lt; 0.3</td>
</tr>
</tbody>
</table>

None hazardous ingredients

Ferrite carrier
Iron oxide
Copper oxide
Zinc oxide
Styrene-Acrylate copolymer
Styrene-Acrylate copolymer
Organic ammonium salt

Section III — Physical/Chemical Characteristics

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>* n.a.</td>
</tr>
<tr>
<td>Specific Gravity (H₂O = 1)</td>
<td>* n.a.</td>
</tr>
<tr>
<td>Melting Point</td>
<td>n.a.</td>
</tr>
<tr>
<td>Evaporation Rate (Butyl Acetate = 1)</td>
<td>n.a.</td>
</tr>
</tbody>
</table>

Solubility in Water
Negligible

Appearance and Odor
Dark, black powder, odorless

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)
N.a.

Flammable Limits | LEL | UEL |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
</tbody>
</table>

Extinguishing Media
CO₂, dry chemical, foam or water

Special Fire Fighting Procedures
This material will burn in the case of fire.

The decomposition products are CO₂, CO and NOx.

Unusual Fire and Explosion Hazards
This material has no unusual fire or explosion hazards.
## Section V — Reactivity Data

<table>
<thead>
<tr>
<th>Stability</th>
<th>Unstable</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steable</td>
<td>X</td>
<td>None</td>
</tr>
</tbody>
</table>

### Incompatibility (Materials to Avoid)

None

### Hazardous Decomposition or Byproducts

CO, CO₂ and NOₓ

### Hazardous Polymerization

May Occur

<table>
<thead>
<tr>
<th>Conditions to Avoid</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>Will Not Occur</td>
<td>X</td>
</tr>
</tbody>
</table>

### Section VI — Health Hazard Data

#### Route(s) of Entry:

- **Inhalation:** Yes
- **Skin:** No
- **Ingestion:** 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:** 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

<table>
<thead>
<tr>
<th>Ventilation</th>
<th>Local Exhaust</th>
<th>Special</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mechanical (General)</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other</td>
<td>No</td>
</tr>
</tbody>
</table>

### 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.