Material Safety Data Sheet

Section I

Distributor's Name: Sharp Electronics Corporation
Address: Sharp Plaza, Mahwah, NJ 07430
Emergency Telephone Number: 201-529-9223

Manufacturer's Name: Sharp Corporation
Address: 22-22 Nagaika-cho, Abeno-ku, Osaka, JAPAN
Date Prepared: 1-1-93

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical identity; Common Name(s)) | OSHA PEL | ACGIH TLV | Other Limits Recommended | % (v/v)
--- | --- | --- | --- | ---
Carbon black (CAS No. 1333-86-4) | 3.5mg/m³ | 3.5mg/m³ | None | 4.0

(None hazardous ingredients)

Severe acrylate copolymer (CAS No. 63328-52-1) Not Listed None 92.0
Organic Pigment (".38833-00-0") " " 4.0

Section III — Physical/Chemical Characteristics

Boiling Point: N.A
Specified Gravity (H₂O = 1): 1.17
Vapor Pressure (mm Hg.): N.A
Melting Point: N.A
Vapor Density (AIR = 1): N.A
Evaporation Rate (Bunsen Burner = 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
Flammability Limits: N.A
LEL: N.A
UEL: N.A

Extinguishing Media: CO₂, 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, CO₂ and NOx.
This material has no unusual fire or explosion hazards.

(Reduce above to 70% for inks)
Section V — Reactivity Data

Stability

<table>
<thead>
<tr>
<th>Condition</th>
<th>Unstable</th>
<th>Conditions to Avoid</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Incompatibility (Materials to Avoid)

None

Hazardous Decomposition or Byproducts

CO, CO₂ and NOx.

Hazardous Polymerization

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

Section VI — Health Hazard Data

Route of Entry: Inhalation? Yes Sun? No Possible but very unusual

Health Hazards (Acute and Chronic)

LDLo value of this toner 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 (Spectra Type)

None required under normal use.

Ventilation

<table>
<thead>
<tr>
<th>Local Exhaust</th>
<th>No.</th>
<th>Special</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical (General)</td>
<td>No.</td>
<td>Other</td>
<td>No</td>
</tr>
</tbody>
</table>

Protective Glasses

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.