**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** MX-312NT/MX-312GT/MX-312AT/MX-312BT/MX-312FT/MX-312CT (Black Toner)

**Supplier Identification:** Sharp Corporation  
22-22 Nagaike-cho, Abeno-ku, Osaka, Japan  
Local suppliers are listed below. Please contact the nearest supplier for additional information.

<table>
<thead>
<tr>
<th>Area</th>
<th>(Country)</th>
<th>(Local suppliers)</th>
</tr>
</thead>
</table>
| North America| U.S.A.             | Sharp Electronics Corporation  
              Sharp Plaza, Mahwah, New Jersey 07495-1163  
              Telephone number: 800-237-4277  
              Emergency telephone number: 800-255-3924 |
|              | Canada             | Sharp Electronics of Canada Ltd.  
              335 Britannia Road East, Mississauga, Ontario L4Z 1W9  
              Telephone number: 905-890-2100  
              Emergency telephone number: 1-800-255-3924 |
| Oceania      | Australia          | Sharp Corporation of Australia PTY. Ltd.  
              No1 Huntingwood Drive Huntingwood Blacktown N.S.W.  
              Telephone number: 1300-13-50-22 |
|              | Germany            | Sharp Electronics (Europe) GMBH  
              Sonninstrasse 3, 20097 Hamburg  
              Telephone number: 040-2376-2185 |
|              | United Kingdom     | Sharp Electronics (U. K.) Ltd.  
              4 Furzeground Way, Stockley Park, Uxbridge Middlesex, UB11 1EZ  
              Telephone number: 08705-274-277 |
|              | France             | Sharp Electronics France S.A.  
              22, Avenue des Nations, Paris Nord 2, BP 52094 / 95948  
              Roissy-Charles de Gaulle, Cedex  
              Telephone number: 01-49-90-34-00 |
|              | Austria            | Sharp Electronics (Europe) GmbH  
              Handelskai 342 1020 Wien  
              Telephone number: 01-727-19-0 |
|              | Italy              | Sharp Electronics (Italy) S.P.A.  
              Via Lampedusa, 13 20141 Milano  
              Telephone number: 02895951 |
|              | Spain              | Sharp Electronics (Espana) S.A.  
              Calle Sena, 2-10 Poligono Industrial Can Sant Joan. Parcela 8,  
              08174 Sant Cugat Del Valles  
              Telephone number: 93-581-97-00 |
|              | Netherlands        | Sharp Electronics Benelux B.V.  
              P.B. 900 Meidoornkade 10, 3992 AE Houten  
              Telephone number: 30-6359500 |
|              | Sweden             | Sharp Electronics Nordic AB  
              Box 14098, Gustavslundsvagen 12, SE-167 14, Bromma  
              Telephone number: 08-634-36-00 |
|              | Switzerland        | Sharp Electronics(Schweiz)AG  
              Moosstrasse 2, Postfach 321 8803 Ruschlikon  
              Telephone number: 01-846-6111 |
|              | U.A.E.             | Sharp Middle East FZE  
              P.O.Box 17115 Jebel Ali, Dubai  
              Telephone number: 04-8815311 |
2. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance</th>
<th>Preparation</th>
<th>CAS No.</th>
<th>Proportion</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>MAK-TWA</th>
<th>NOHSC-TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene-Acrylate copolymer</td>
<td>Confidential</td>
<td>80-90%</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td></td>
</tr>
<tr>
<td>Carbon black</td>
<td>1333-86-4</td>
<td>5-10%</td>
<td>3.5mg/m³</td>
<td>3.5mg/m³</td>
<td>Not listed</td>
<td>Not listed</td>
<td></td>
</tr>
<tr>
<td>Polyethylene</td>
<td>Confidential</td>
<td>1-5%</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td></td>
</tr>
<tr>
<td>Polypropylene</td>
<td>Confidential</td>
<td>1-5%</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td></td>
</tr>
<tr>
<td>Charge control agent</td>
<td>Confidential</td>
<td>1-5%</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td></td>
</tr>
<tr>
<td>Amorphous silica</td>
<td>7631-86-9</td>
<td>0.1-1%</td>
<td>80 mg/m³</td>
<td>2mg/m³</td>
<td>Not listed</td>
<td>Not listed</td>
<td></td>
</tr>
<tr>
<td>Iron Oxide</td>
<td>1309-38-2</td>
<td>1-5%</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td></td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

Most Important Hazards and Effects of the Products:

**Human Health Effects**: There are no anticipated carcinogenic effects from exposure based on animal tests performed using toner. When used as intended according to instructions, studies do not indicate any symptoms of fibrosis will occur.

**Environmental Effects**: Not toxic to aquatic organisms

**Specific Hazards**: Dust explosion (like most finely divided organic powders)

**Directive 1999/45/EC (Europe)**: Not classified as dangerous.

**Australian Information**: Not classified as hazardous according to criteria of NOHSC.

4. FIRST-AID MEASURES

<table>
<thead>
<tr>
<th>Route(s) of Entry</th>
<th>Inhalation?</th>
<th>Skin?</th>
<th>Ingestion?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yes</td>
<td>No</td>
<td>Possible but very unusual.</td>
</tr>
</tbody>
</table>

**Inhalation**: Remove to fresh air. If symptoms occur, consult medical personnel.

**Skin Contact**: Wash with soap and water for 15 minutes or until particle is removed. If irritation does occur, consult medical personnel.

**Eye Contact**: Flush eyes immediately with water for 15 minutes. If irritation does occur, consult medical personnel.

**Ingestion**: Rinse with water and drink several glasses of water. If irritation or discomfort does occur, consult medical personnel.

5. FIRE-FIGHTING MEASURES

**Extinguishing Media**: Water, CO₂, foam and dry chemicals

**Special Fire Fighting Procedures**: None

**Fire and Explosion Hazards**: Toner material, like most finely divided organic powders, may form an explosive mixture.

6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions**: None

**Environmental Precautions**: None

**Methods for Cleaning Up**: Wipe off with paper or cloth. Do not use vacuum cleaner when a large amount is released. It, like most finely divided organic powders, is capable of creating a dust explosion.
7. HANDLING AND STORAGE

Handling
Technical Measures: None
Precautions: None
Safe Handling Advice: Use of a dust mask is recommended when handling a large quantity of toner or during long term exposure, as with any non-toxic dust. Try not to disperse the particles.

Storage
Technical Measures: None
Storage Conditions: Keep container closed and Store in a cool and dry place.
Incompatible Products: None

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures
Ventilation: Not required under intended use.

Exposure Limit Values
OSHA-PEL(USA): 15mg/m³ (Total Dust), 5mg/m³ (Respirable Dust)
ACGIH-TLV(USA): 10mg/m³ (Total Dust), 3mg/m³ (Respirable Dust)

Personal Protective Equipment
Respiratory Protection: Not required under intended use.
Hand Protection: Not required under intended use.
Eye Protection: Not required under intended use.
Skin Protection: Not required under intended use.
Other Protective Equipment: Use of a dust mask and goggles are recommended when handling a large quantity of toner or during long term exposure, as with any non-toxic dust.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Physical State: Solid
Form: Powder
Color: Black
Odor: odorless

Ph: Not applicable
Boiling / Melting Point: Not applicable
Softening Point(°C): 100 - 130
Flash Point(°C): Not applicable
Ignition Point(°C): > 350

Explosion Properties: No data
Density(g/cm³): 1.1 (bulk density: approx. 0.35)
Solubility in Water: Negligible

10. STABILITY AND REACTIVITY

Stability: Stable
Hazardous Reactions: Dust explosion, like most finely divided organic powders.
Conditions to Avoid: Electric discharge, throwing into fire.
Materials to Avoid: Oxidizing Materials
Hazardous Decomposition Products: CO, CO₂ and NOₓ
Further Information: None Dermal
11. TOXICOLOGICAL INFORMATION

Acute Toxicity

- Ingestion (oral): LD₅₀ > 2000mg/kg (Rats)
- Inhalation: LC₅₀ > 5.0mg/L (Rats)
- Eye irritation: Not an irritant (Rabbits)
- Skin irritation: Not an irritant (Rabbits)
- Skin sensitizer: No sensitization

Mutagenicity: Negative (Ames Test)

Carcinogenicity: In 1996 the IARC reevaluated carbon black as a Group 2B carcinogen (possible human carcinogen). This classification is given to chemicals for which there is inadequate human evidence, but sufficient animal evidence on which to base an opinion of carcinogenicity. The classification is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at levels that induce particle overload of the lung. Studies performed in animal models other than rats did not show any association between carbon black and lung tumors. Moreover, a two-year cancer bioassay using a typical toner preparation, where carbon black is bound in a resin matrix, demonstrated no association between toner exposure and tumor development in rats.

Chronic Effect: In a study in rats of chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4mg/m³) exposure group, but no pulmonary change was reported in the lowest (1mg/m³) exposure group, the most relevant level to potential human exposures.

12. ECOLOGICAL INFORMATION

Ecotoxicity

- On available data, toner is not harmful to aquatic organisms

13. DISPOSAL CONSIDERATIONS

- Waste from Residues: Waste material may be dumped or incinerated under conditions which meet all federal, state and local environmental regulations.
- Contaminated Packaging: Waste may be disposed of incinerated under conditions which meet all federal, state and local environmental regulations.

14. TRANSPORT INFORMATION

- UN Classification: None
- Not classified as hazardous for transport.
15. REGULATORY INFORMATION

US Information
TSCA (Toxic Substances Control Act):
All chemical substances in this product comply with all applicable rules or order under TSCA.

SARA (Superfund Amendments and Reauthorization Act) Title III
302 Extreme Hazardous Substance: None
311/312 Hazard Classification: None

EU Information
1999/45/EC and 67/548/EEC
Symbol & Indication: Not required
R-Phrase: Not required
76/769/EEC: All chemical substances in this product comply with all applicable rules or order under 76/769/EEC.

16. OTHER INFORMATION

NFPA Rating (USA): Health=1 Flammability=1 Reactivity=0

WHMIS Legislation (Canada): This product is not a controlled product.

References

The information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. However, all materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we do not guarantee that these are the only hazards which exist.