### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** MX-850GT / MX-850NT / MX-850AT / MX-850FT / MX-850CT (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.

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<th>(Name and Telephone Number)</th>
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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

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<th>Substance</th>
<th>Preparation</th>
<th>Proportion</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>MAK-TWA</th>
<th>NOHSC-TWA</th>
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<td>Not listed</td>
<td>Not listed</td>
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<td>Polyester resin2</td>
<td>Confidential</td>
<td>30-35%</td>
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<td>Not listed</td>
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<td>Not listed</td>
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<td>Carbon black</td>
<td>1333-86-4</td>
<td>5-10%</td>
<td>3.5mg/m³</td>
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<td>1-5%</td>
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<td>Polypropylene</td>
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<td>Not listed</td>
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<td>Charge control agent</td>
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<td>&lt;2%</td>
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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

[Estimated from the other product containing similar material]

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

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

4. FIRST-AID MEASURES

Route(s) of Entry: Inhalation? Skin? Ingestion?

Inhalation: Yes

Skin: No

Ingestion: Possible but very unusual.

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.

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
MATERIAL SAFETY DATA SHEET

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: 0.4)
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: CO₂, CO and NOₓ
Further Information: None

11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Ingestion(oral): LD₅₀ > 2000mg/kg (Rats)
Inhalation: LC₅₀ > 5.0mg/L
Eye irritation: Not an irritant (Rabbits)
Skin irritation: Not an irritant (Rabbits)
Skin sensitizers: 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.
MATERIAL SAFETY DATA SHEET

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
[Estimated from the other product containing similar material]

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 or 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.
List of R phrases: R11: Highly flammable


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.
# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** MX-850GV / MX-850NV / MX-850AV / MX-850FV / MX-850CV (Black Developer)

**Supplier Identification:** Sharp Corporation
22-22 Nagaika-cho, Abeno-ku, Osaka, Japan

Local suppliers are listed below. Please contact the nearest supplier for additional information.

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# 2. COMPOSITION / INFORMATION ON INGREDIENTS

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<th>Ingredient</th>
<th>CAS No.</th>
<th>Proportion</th>
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<th>ACGIH TLV</th>
<th>MAK-TWA</th>
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<td>Carbon black</td>
<td>1333-86-4</td>
<td>&lt; 1%</td>
<td>3.5mg/m³</td>
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<td>Not listed</td>
<td>3mg/m³</td>
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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: No data are available.

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

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

4. FIRST-AID MEASURES

Route(s) of Entry:
Inhalation? Yes
Skin? Yes
Ingestion? Yes

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.

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. Keep out of the reach of children.

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
Flash Point (°C) : Not applicable
Ignition Point (°C) : No data
Explosion Properties : No data
Density (g/cm³) : 6 (bulk density : 2.35)
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

11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Ingestion (oral) : LD₅₀ > 2000mg/kg (Rats) (Estimated from the constituent components)
Inhalation : No data
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, containing carbon black demonstrated no association between toner exposure and tumor development in rats.
12. ECOLOGICAL INFORMATION
No data are available.

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 or 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.