SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier : MX-235NV

1.2 Relevant identified uses of the substance or mixture and uses advised against

   Use of the Substance/ Mixture : Reprographic agents (Black Developer)

1.3 Details of the supplier of the safety data sheet

   Company / USA : SHARP Electronics Corporation
   Address : Sharp Plaza, Mahwah, New Jersey 07495-1163
   Telephone number : +1-800-237-4277

   Company / Canada : SHARP Electronics of Canada Ltd.
   Address : 335 Britannia Road East, Mississauga, Ontario L4Z 1W9
   Telephone number : +1-905-890-2100

1.4 Emergency telephone number

   Telephone number : +1-800-255-3924  (USA, Canada only)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

   Classification (Hazard Communication Standard)

     Not Classified as hazardous

2.2 Label elements

   Labelling (accordance with paragraph (f) of §1910.1200)

     Hazard symbol : None
     Signal word : None
     Hazard statements : None
     Precautionary statements : None

2.3 Other hazards

   Potential dust explosion hazard.
SECTION 3: Composition/information on ingredients

3.2 Mixtures

<table>
<thead>
<tr>
<th>Components</th>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Classification (REGULATION (EC) No1272/2008)</th>
<th>IARC</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron powder</td>
<td>7439-89-6</td>
<td>Not Classified</td>
<td>None</td>
<td>90-99</td>
<td></td>
</tr>
<tr>
<td>Styrene-Acrylate copolymer</td>
<td>Confidential</td>
<td>Not Classified</td>
<td>None</td>
<td>1-10</td>
<td></td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>Not Classified</td>
<td>2B</td>
<td>0.1-1</td>
<td></td>
</tr>
<tr>
<td>Silicone resin</td>
<td>Confidential</td>
<td>Not Classified</td>
<td>None</td>
<td>0.1-1</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice: In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.

Protection of first-aiders: First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.

If inhaled: If inhaled, remove to fresh air.

If not breathing, give artificial respiration.

If breathing is difficult, give oxygen.

Get medical attention.

In case of skin contact: Remove contaminated clothing and shoes.

Get medical attention if irritation develops and persists.

Wash clothing before reuse.

Thoroughly clean shoes before reuse.

In case of eye contact: If in eyes, rinse well with water.

Get medical attention if irritation develops and persists.

If swallowed: If swallowed, get medical attention.

Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

Risks: Dust contact with the eyes can lead to mechanical irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically and supportively.
SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:
- Water spray
- Alcohol-resistant foam
- Dry chemical
- Carbon dioxide (CO2)

Unsuitable extinguishing media:
- High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting:
Do not use a solid water stream as it may scatter and spread fire.
Exposure to combustion products may be a hazard to health.

Hazardous combustion products:
- Carbon oxides
- Nitrogen oxides (NOx)

5.3 Advice for firefighters

Special protective equipment for firefighters:
In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

Specific extinguishing methods:
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:
Use personal protective equipment.
Follow safe handling advice and personal protective equipment recommendations.

6.2 Environmental precautions

Environmental precautions:
Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so.
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up:
Sweep up or vacuum up spillage and collect in suitable container for disposal.
Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

6.4 Reference to other sections
See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures:
Static electricity may accumulate and ignite suspended dust causing an explosion.
Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.

Advice on safe handling:
Do not breathe dust.
Do not swallow.
Avoid contact with eyes.
Handle in accordance with good industrial hygiene and safety practice.
Keep container tightly closed.
Minimize dust generation and accumulation.
Keep away from heat and sources of ignition.
Take care to prevent spills, waste and minimize release to the environment.

Hygiene measures:
When using do not eat, drink or smoke.
Wash contaminated clothing before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:
Keep tightly closed. Keep in a cool, well-ventilated place.
Store in accordance with the particular national regulations.
Advice on common storage: Do not store with the following product types:
- Strong oxidizing agents
- Organic peroxides
- Explosives
- Gases

7.3 Specific end use(s)
Specific use(s): No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

<table>
<thead>
<tr>
<th>Occupational Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components</td>
</tr>
<tr>
<td>------------</td>
</tr>
<tr>
<td>Carbon black</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

8.2 Exposure controls

Engineering measures
Minimize workplace exposure concentrations.
Apply measures to prevent dust explosions.

Personal protective equipment
- Eye protection: Not required under intended use
- Hand protection: Not required under intended use
- Skin and body protection: Not required under intended use
- Respiratory protection: Not required under intended use

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
- Appearance: powder
- Colour: black
- Odour: odourless
- Odour Threshold: No data available
- pH: No data available
- Melting point/freezing point: Not applicable
- Initial boiling point and boiling range: No data available
- Flash point: Not applicable
- Evaporation rate: Not applicable
Flammability (solid, gas) : Not classified as a flammability hazard
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : Not applicable
Relative vapour density : Not applicable
Density : ca. 7.0 g/cm³
Bulk density : ca. 2.0 g/cm³
Solubility(ies) Water solubility : negligible
Partition coefficient: noctanol/water : Not applicable
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity
  Viscosity, dynamic : Not applicable
Explosive properties : Not explosive
Oxidizing properties : The substance or mixture is not classified as oxidizing.

9.2 Other information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
Not classified as a reactivity hazard.

10.2 Chemical stability
Stable under normal conditions.

10.3 Possibility of hazardous reactions
Hazardous reactions : Dust can form an explosive mixture in air.
Can react with strong oxidizing agents.

10.4 Conditions to avoid
Conditions to avoid : None known.

10.5 Incompatible materials
Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products
No hazardous decomposition products are known.
SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure:
- Inhalation
- Skin contact
- Ingestion
- Eye contact

**Acute Toxicity**

- **Ingestion (oral):** LD₅₀ > 2000mg/kg (Rats)
- **Inhalation:** No data
- **Eye irritation:** No data
- **Skin irritation:** Not an irritant
- **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 containing carbon black 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.
SECTION 12: Ecological information

12.1 Ecotoxicity
On available data, toner is not harmful to aquatic organisms

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Product : Dispose of in accordance with local regulations.
Contaminated packaging : Dispose of as unused product.
 Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number : None
14.2 UN proper shipping name : None
14.3 Transport hazard class(es) : None
14.4 Packing group : None
14.5 Environmental hazards : None
14.6 Special precautions for user : Not applicable
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
TSCA (Toxic Substances Control Act) :
All chemical substances in this product comply with all applicable rules or order under TSCA.
WHMIS Legislation (Canada) :
This product is not a controlled product.
SECTION 16: Other information

Full text of other abbreviations

ACGIH : American Conference of Governmental Industrial Hygienists
IARC : International Agency for Research on Cancer
OSHA : Occupational Safety and Health Administration
PEL : Permissible Exposure Limit
TLV : Threshold Limit Value
TWA : Time Weighted Average

Further information
Sources of key data used to compile the Safety Data Sheet:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user’s end product, if applicable.

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