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

1.1 Product identifier : MX-754NV

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.



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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical Name	CAS-No.	Classification	IARC	Concentration
		(REGULATION		(%)
		(EC) No1272/2008)		
Ceramic Materials	66402-68-4	Not Classified	None	90-99
Polyester resin	Confidential	Not Classified	None	1-10
Silicone resin	Confidential	Not Classified	None	1-5
Carbon Black	1333-86-4	Not Classified	2B	0.1-1

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 medica
	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 eff	ects, both acute and delayed
Risks	: Dust contact with the eyes can lead to mechanical irritation.
4.3 Indication of any immediate medi	cal attention and special treatment needed
Treatment	: Treat symptomatically and supportively.
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5.1 Extinguishing media : Water spray 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. Exposure to combustion products may be a hazard to health. Hazardous combustion products : Carbon oxides Nitrogen oxides (NOx) Nitrogen oxides (NOx) 5.3 Advice for firefighters 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.	SECTION 5: Firefighting measures	
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Remove undamaged containers from fire area if it is safe to do so.		cumstances and the surrounding environment.
		Use water spray to cool unopened containers.
Evacuate area.		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.



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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, includin	ng any incompatibilities
Requirements for storage	: Keep tightly closed. Keep in a cool, well-ventilated place.
areas and containers	Store in accordance with the particular national regulations.



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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

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of	Control parameters	Basis
		exposure)		
Carbon black	1333-86-4	TWA	3.5 mg/m3	OSHA PEL
		TWA(Inhalable)	3 mg/m3	ACGIH TLV

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
рН	:	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



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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. 6 g/cm3
Bulk density	: ca. 2.35 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.



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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)	: LD ₅₀ > 2000mg/kg (Rats)
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 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.



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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 conside	rations
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.



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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:

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency,http://echa.europa.eu/

IARC (1996): IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol.65, Printing Process and Printing Inks, Carbon Black and Some Nitro Compounds, Lyon, pp.149-261 H.Muhle, B.Bellman, O.Creutzenberg, C.Dasenbrock, H.Emst, R.Kilpper, J.C.MacKenzie, P.Morrow, U.Mohr, S.Takenaka and R.Mermelstein(1991) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied Toxicology 17, pp.280-299.

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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