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Date Issued: Mar. 1, 2007

MSDS No. F-01491

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.

	Area	(Country)	(Name and Telephone Number)			
		U.S.A.	Sharp Electronics Corporation			
	131	arku grenigu z	Sharp Plaza, Mahwah, NJ			
	North		Telephone number for information	: 1-800-237-4277		
	America		Emergency telephone number	: 1-800-255-3924		
	7,11101100	Canada	Sharp Electronics of Canada Ltd.	CONTRACTOR ASSESSMENT OF THE		
			Telephone number for information	: 905-890-2100		
		711291499	Emergency telephone number	: 1-800-255-3924		
		Australia	Sharp Corporation of Australia PTY. Ltd.			
	Oceania		No1 Huntingwood Drive Huntingwood Blacktown N.S.W.			
		Propries and a second	Telephone number for information	: 1300-13-50-22		
		Germany	Sharp Electronics (Europe) GMBH	er i van een het bestelle		
		1 (2) 1 (4) (5) (5) (5) (6)	Sonninstrasse 3, 20097 Hamburg			
			Telephone number to access MSDS	: 040-2376-2185		
	spen Lyany	THE PROPERTY HOUSE	For more information	: 040-2376-2613		
	THE REPLACE	United	Sharp Electronics (U. K.) Ltd.			
		Kingdom	Telephone number for information	: 08705-274-277		
		France	Sharp Electronics France S.A.			
			Telephone number for information	: 01-49-90-34-00		
		Austria	Sharp Electronics GMBH			
	Europe	818	Telephone number for information	: 01-727-19-0		
		Italy	Sharp Electronics (Italy) S.P.A.	Fire Flyaning Proces		
	terr, metry fortr	wan olasma keb	Telephone number for information	: 02895951		
		Spain	Sharp Electronics (Espana) S.A.			
			Telephone number for information	: 93-581-97-00		
		Netherlands	Sharp Electronics Benelux B.V.			
			Telephone number for information	: 30-6359500		
		Sweden	Sharp Electronics Nordic AB	enotionae 4 kg		
			Telephone number for information	: 08-634-36-00		
	PER PROPERTY TARREST	Switzerland	Sharp Electronics(Schweiz)AG	est contract and wat of		
		CONTRACTOR SECTION	Telephone number for information	: 01-846-6111		
	Middle	U.A.E.	Sharp Middle East FZE			
	East		P.O.Box 17115 Jebel Ali, Dubai			
			Telephone number for information	: 04-815311		

2.COMPOSITION / INFORMATION ON INGREDIENTS

Substance[]	Preparation[X]					
Ingredient	CAS No.	Proportion	OSHA PEL	ACGIH TLV	MAK-TWA	NOHSC-TWA
Polyester resin1	Confidential	45-55%	Not listed	Not listed	Not listed	Not listed
Polyester resin2	Confidential	30-35%	Not listed	Not listed	Not listed	Not listed
Carbon black	1333-86-4	5-10%	3.5mg/m ³	3.5mg/m ³	Not listed	3mg/m ³
Iron oxide	1309-38-2	1-5%	Not listed	Not listed	Not listed	Not listed
Polypropylene	Confidential	1-5%	Not listed	Not listed	Not listed	Not listed
Charge control agent	Confidential	<2%	Not listed	Not listed	Not listed	Not listed



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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?

Yes No 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.

If irritation does occur, consult medical personnel.

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

estion : 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



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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

Hand Protection

: Not required under intended use. : Not required under intended use.

Eve Protection Skin Protection : Not required under intended use. : 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 : Not applicable

Color: Black

Odor: odorless

Boiling / Melting Point

Softening Point(°C)

Flash Point(°C)

Ignition Point(°C)

Explosion Properties

Density(g/cm³) Solubility in Water : Not applicable : 100 - 130

: Not applicable : > 350

: No data

: 1.1 (bulk density: 0.4)

: 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)

Inhalation

: LC₅₀ > 5.0mg/L

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.



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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 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

EU Information

1999/45/EC and 67/548/EEC

Symbol & Indication

: Not required

R-Phrase

76/769/EEC

: Not required

: 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

References

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.Bellmann, O.Creutzenberg, C.Dasenbrock, H.Ernst, 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 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.



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MSDS No. F-31491

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 Nagaike-cho, Abeno-ku, Osaka, Japan

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

Area	Area (Country) (Name and Telephone Number)					
North	U.S.A.	Sharp Electronics Corporation Sharp Plaza, Mahwah, NJ Telephone number for information	: 1-800-237-4277			
North		Emergency telephone number	: 1-800-255-3924			
America	Canada	Sharp Electronics of Canada Ltd. Telephone number for information Emergency telephone number	: 905-890-2100 : 1-800-255-3924			
Oceania	Australia	Sharp Corporation of Australia PTY. Ltd No1 Huntingwood Drive Huntingwood Telephone number for information				
ibem flueno: od does occ	Germany	Sharp Electronics (Europe) GMBH Sonninstrasse 3, 20097 Hamburg Telephone number to access MSDS For more information	: 040-2376-2185 : 040-2376-2613			
***************************************	United Kingdom	Sharp Electronics (U. K.) Ltd. Telephone number for information	: 08705-274-277			
	France	Sharp Electronics France S.A. Telephone number for information	: 01-49-90-34-00			
Europe	Austria	Sharp Electronics GMBH Telephone number for information	: 01-727-19-0			
Lurope	Italy 1	Sharp Electronics (Italy) S.P.A. Telephone number for information	: 02895951			
	Spain	Sharp Electronics (Espana) S.A. Telephone number for information	: 93-581-97-00			
	Netherlands	Sharp Electronics Benelux B.V. Telephone number for information	: 30-6359500			
si a neriw tek	Sweden	Sharp Electronics Nordic AB Telephone number for information	: 08-634-36-00			
, is capable	Switzerland	Sharp Electronics(Schweiz)AG Telephone number for information	: 01-846-6111			
Middle East	U.A.E.	Sharp Middle East FZE P.O.Box 17115 Jebel Ali, Dubai Telephone number for information	: 04-815311			

2.COMPOSITION / INFORMATION ON INGREDIENTS

Preparation[X]	Abned osdw ba	is recommende	veem faub a to	seU; solsbi	graibnaH etse
CAS No.	Proportion	OSHA PEL	ACGIH TLV	MAK-TWA	NOHSC-TWA
1309-37-1	>90%	Not listed	Not listed	Not listed	Not listed
Confidential	1-5%	Not listed	Not listed	Not listed	Not listed
Confidential	1-5 %	Not listed	Not listed	Not listed	Not listed
Confidential	1-5 %	Not listed	Not listed	Not listed	Not listed
1333-86-4	< 1%	3.5mg/m ³	3.5mg/m ³	Not listed	3mg/m ³
	CAS No. 1309-37-1 Confidential Confidential Confidential	CAS No. Proportion 1309-37-1 >90% Confidential 1-5% Confidential 1-5 % Confidential 1-5 %	CAS No. Proportion OSHA PEL 1309-37-1 >90% Not listed Confidential 1-5% Not listed Confidential 1-5% Not listed Confidential 1-5% Not listed	CAS No.ProportionOSHA PELACGIH TLV1309-37-1>90%Not listedNot listedConfidential1-5%Not listedNot listedConfidential1-5%Not listedNot listedConfidential1-5%Not listedNot listed	CAS No.ProportionOSHA PELACGIH TLVMAK-TWA1309-37-1>90%Not listedNot listedNot listedConfidential1-5%Not listedNot listedNot listedConfidential1-5%Not listedNot listedNot listedConfidential1-5%Not listedNot listedNot listed



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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? Skin? Ingestion?

> Possible but very unusual. No

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.

: 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.



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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 dataExplosion 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 NO_X

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 re

: 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.



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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

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.Bellmann, O.Creutzenberg, C.Dasenbrock, H.Ernst, 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 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.