

Date Issued : Mar. 1, 2009 MSDS No. F-01711

1.PRODUCT AND COMPANY IDENTIFICATION

Product Name : MX-500NT / MX-500GT / MX-500AT / MX-500FT / MX-500CT (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			
North America		Sharp Plaza, Mahwah, NJ			
		Telephone number for information	: 1-800-237-4277		
		Emergency telephone number	: 1-800-255-3924		
America	Canada	Sharp Electronics of Canada Ltd.			
		Telephone number for information	: 905-890-2100		
		Emergency telephone number	: 1-800-255-3924		
	Australia	Sharp Corporation of Australia PTY. Ltd	-		
Oceania		No1 Huntingwood Drive Huntingwood Blacktown N.S.W.			
		Telephone number for information : 1300-13-50-22			
	Germany	Sharp Electronics (Europe) GMBH			
	-	Sonninstrasse 3, 20097 Hamburg			
		Telephone number to access MSDS	: 040-2376-2185		
		For more information	: 040-2376-2613		
	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		Telephone number for information	: 01-727-19-0		
Luiope	Italy	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		
	Sweden	Sharp Electronics Nordic AB			
		Telephone number for information	: 08-634-36-00		
	Switzerland	Sharp Electronics(Schweiz)AG			
		Telephone number for information	: 01-846-6111		
Middle	U.A.E.	Sharp Middle East FZE			
East		P.O.Box 17115 Jebel Ali, Dubai			
Last		Telephone number for information	: 04-815311		

2.COMPOSITION / INFORMATION ON INGREDIENTS

Substance[] Ingredient	Preparation[X] CAS No.	Proportion	OSHA PEL	ACGIH TLV	MAK-TWA	NOHSC-TWA
Styrene-Acrylate copolymer	Confidential	80-90%	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
Polypropylene	Confidential	1-5%	Not listed	Not listed	Not listed	Not listed
Charge control agen	t Confidential	0.1-1%	Not listed	Not listed	Not listed	Not listed
Amorphous silica	68611-44-9	0.1-1%	80 mg/m ³	2mg/m ³	Not listed	Not listed



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3.HAZARDS IDENTIFIC				
	ATION			
Most Important Hazar	ds and Effec	ts of the Products		
Human Health Effects	s : There are	e no anticipated carci	ogenic effects from exposure base	d on animal tests
	performed	d using toner. When u	sed as intended according to instru	ctions, studies do not
	indicate a	any symptoms of fibro	sis will occur.	
Environmental Effects	s : Not toxic	to aquatic organisms		
	[Estimate	ed from the other prod	uct containing similar material]	
Specific Hazards	: Du	ust explosion (like mo	st finely divided organic powders)	
Directive 1999/45/EC(I	Europe) : No	ot classified as dange	ous	
4.FIRST-AID MEASURE	ES			
Route(s) of Entry : Inl	halation?	Skin?	Ingestion?	
	Yes	No	Possible but very unusual.	
		• •	onsult medical personnel.	
	-		or until particle is removed.	
		ur, consult medical pe		
•		•	ninutes. If irritation does occur, con	•
-		d drink several glasse	s of water. If irritation or discomfort of	does occur, consult
medica	l personnel.			
5.FIRE-FIGHTING MEA	SURES			
Extinguishing Media	:	: Water, CO2, foam a	d dry chemicals	
Special Fire Fighting I	Procedures :	: None		
Fire and Explosion Ha	zards	: Toner material, like	nost finely divided organic powders,	may form an explosive
		mixture.		
6.ACCIDENTAL RELEA	SE MEASU	RES		
Personal Precautions		: None		
Environmental Precau	utions	: None		
Methods for Cleaning			r cloth. Do not use vacuum cleaner	when a large amount is
	-6			
		released. It. like mo	st finely divided organic powders, is	•
			at finely divided organic powders, is	-
7.HANDLING AND STO		released. It, like mo dust explosion.	t finely divided organic powders, is	-
7.HANDLING AND STO Handling	RAGE		at finely divided organic powders, is	-
Handling			t finely divided organic powders, is	-
Handling Technical Measures	: None		t finely divided organic powders, is	•
Handling Technical Measures Precautions	: None : None	dust explosion.		s capable of creating a
Handling Technical Measures Precautions	: None : None : Use of a d	dust explosion.	nded when handling a large quantity	s capable of creating a
Handling Technical Measures Precautions Safe Handling Advice	: None : None : Use of a d	dust explosion.		s capable of creating a
Handling Technical Measures Precautions Safe Handling Advice Storage	: None : None : Use of a de term expo	dust explosion.	nded when handling a large quantity	s capable of creating a
Handling Technical Measures Precautions Safe Handling Advice Storage Technical Measures	: None : None : Use of a du term expo : None	dust explosion. ust mask is recomme sure, as with any non	nded when handling a large quantity toxic dust. Try not to disperse the p	s capable of creating a
Handling Technical Measures Precautions Safe Handling Advice Storage	: None : None : Use of a di term expo : None : Keep conta	dust explosion. ust mask is recomme sure, as with any non ainer closed and Stor	nded when handling a large quantity toxic dust. Try not to disperse the p e in a cool and dry place.	s capable of creating a
Handling Technical Measures Precautions Safe Handling Advice Storage Technical Measures Storage Conditions	: None : None : Use of a dr term export : None : Keep conta Keep out o	dust explosion. ust mask is recomme sure, as with any non	nded when handling a large quantity toxic dust. Try not to disperse the p e in a cool and dry place.	s capable of creating a
Handling Technical Measures Precautions Safe Handling Advice Storage Technical Measures	: None : None : Use of a di term expo : None : Keep conta Keep out o : None	dust explosion. ust mask is recomme sure, as with any non ainer closed and Stor of the reach of childre	nded when handling a large quantity toxic dust. Try not to disperse the p e in a cool and dry place. n.	s capable of creating a
Handling Technical Measures Precautions Safe Handling Advice Storage Technical Measures Storage Conditions Incompatible Products 8.EXPOSURE CONTRO	: None : None : Use of a dr term expo : None : Keep conta Keep out o : None DLS / PERSC	dust explosion. ust mask is recomme sure, as with any non ainer closed and Stor of the reach of childre	nded when handling a large quantity toxic dust. Try not to disperse the p e in a cool and dry place. n.	s capable of creating a
Handling Technical Measures Precautions Safe Handling Advice Storage Technical Measures Storage Conditions Incompatible Products 8.EXPOSURE CONTRO Engineering Measures	: None : None : Use of a du term expo : None : Keep conta Keep out o : None DLS / PERSO	dust explosion. ust mask is recomme sure, as with any non ainer closed and Stor of the reach of childre	nded when handling a large quantity toxic dust. Try not to disperse the p e in a cool and dry place. n.	s capable of creating a
Handling Technical Measures Precautions Safe Handling Advice Storage Technical Measures Storage Conditions Incompatible Products 8.EXPOSURE CONTRO Engineering Measures Ventilation	: None : None : Use of a di term expo : None : Keep conta Keep out o : None DLS / PERSO	dust explosion. ust mask is recomme sure, as with any non ainer closed and Stor of the reach of childre	nded when handling a large quantity toxic dust. Try not to disperse the p e in a cool and dry place. n.	s capable of creating a
Handling Technical Measures Precautions Safe Handling Advice Storage Technical Measures Storage Conditions Incompatible Products 8.EXPOSURE CONTRO Engineering Measures Ventilation Exposure Limit Values	: None : None : Use of a di term expo : None : Keep conta Keep out o : None DLS / PERSO	dust explosion. ust mask is recomme sure, as with any non ainer closed and Stor of the reach of childre DNAL PROTECTION : Not required under i	nded when handling a large quantity toxic dust. Try not to disperse the p e in a cool and dry place. n.	s capable of creating a
Handling Technical Measures Precautions Safe Handling Advice Storage Technical Measures Storage Conditions Incompatible Products 8.EXPOSURE CONTRO Engineering Measures Ventilation	: None : None : Use of a du term expo : None : Keep conta Keep out o : None DLS / PERSO s	dust explosion. ust mask is recomme sure, as with any non ainer closed and Stor of the reach of childre DNAL PROTECTIO : Not required under i : 15mg/m ³ (Total Dus	nded when handling a large quantity toxic dust. Try not to disperse the p e in a cool and dry place. n.	s capable of creating a



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Personal Protectiv	ve Equipment			
Respiratory Protect	ction	: 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 E	Equipment	: Use of a dust mask	and goggles are recom	nmended when handling a large
		quantity of toner or	during long term exposi	ure, as with any non-toxic dust.
9.PHYSICAL AND (CHEMICAL PI	ROPERTIES		
Appearance				
Physical State : So	olid	Form : Powder	Color : Black	Odor : odorless
Ph		: Not applicable		
Boiling / Melting P	oint	: Not applicable		
Softening Point(°C	C)	: 100 - 130		
Flash Point(°C)		: Not applicable		
Ignition Point(°C)	1	: > 350		
Explosion Propert	ties	: No data		
Density(g/cm ³)		: 1.1 (bulk density :	approx. 0.35)	
Solubility in Water	r	: Negligible	,	
10.STABILITY AND	REACTIVITY			
Stability		: Stable		
Hazardous Reaction	ons	: Dust explosion	, like most finely divided	d organic powders.
Conditions to Avo	oid	: Electric dischar	rge, throwing into fire.	
Materials to Avoid	1	: Oxidizing Mate	rials	
Hazardous Decom	position Proc	fucts : CO, CO_2 and N	IO _X	
Further Informatio	on in the second s	: None Dermal		
11.TOXICOLOGICAL		ON		
Acute Toxicity				
Ingestion(oral)	: LD ₅₀ > 2000	Omg/kg (Rats) [Estimate	ed from the other produce	ct containing similar material]
Inhalation	: LC ₅₀ > 5.0r	ng/L (Rats) [Estimated f	from the other product of	containing similar material]
Eye irritation	: Not an irrita	ant (Rabbits) [Estimated	I from the other product	containing similar material]
Skin irritation	: Not an irrita	ant (Rabbits) [Estimated	from the other product	containing similar material]
Skin sensitizer	: No sensitiza	ation[Estimated from the	e other product containi	ng similar material]
Mutagenicity	: Negative (A	Ames Test) [Estimated f	rom the other product c	ontaining similar material]
Carcinogenicity	: In 1996 the	IARC reevaluated carbo	on black as a Group 2B	carcinogen (possible human
	carcinogen).	. This classification is gi	ven to chemicals for wh	hich there is inadequate human
	- /	•		an opinion of carcinogenicity. The
				s in rats receiving chronic inhalation
		•		e overload of the lung. Studies
	•		•	ny association between carbon black
	•			ng a typical toner preparation, where
				ssociation between toner exposure
		evelopment in rats.	ink, demonstrated no a	sociation between toner exposure
Chronic Effect		•	on exposure to a typical	I toner, a mild to moderate degree of
	•			concentration (16 mg/m^3) exposure
	-		•	in 22% of the animals in the middle
		-		as reported in the lowest (1 mg/m^3)
		oup, the most relevant l		
	expedite gr	oup, no most rolevant i		



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12.ECOLOGICAL INFORMATION

Ecotoxicity

On available data, toner is not harmful to aquatic organisms

13.DISPOSAL CONSIDERATIONS	
	e material may be dumped or incinerated under conditions which meet all federa
	and local environmental regulations.
	e may be disposed or incinerated under conditions which meet all federal, state
and lo	ocal environmental regulations.
14.TRANSPORT INFORMATION	
UN Classification : None	
Not classified as hazardous for tran	isport.
15.REGULATORY INFORMATION	
US Information	
TSCA(Toxic Substances Control A	Act) :
All chemical substances in this p	product comply with all applicable rules or order under TSCA.
SARA(Superfund Amendments ar	nd Reauthorization Act) Title III
302 Extreme Hazardous Substa	ince : 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) : He	ealth=1 Flammability=1 Reactivity=0
WHMIS Legislation (Canada) : Th	nis 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.