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Date Issued : Jul.26,2010 MSDS No. F-01901

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : MX-23NT-BA/MX-23GT-BA/MX-23FT-BA MX-23AT-BA/MX-23BT-BA/MX-23CT-BA (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)	(Local suppliers)				
	U.S.A.	Sharp Electronics Corporation				
		Sharp Plaza, Mahwah, New Jersey 07495-1163				
		Telephone number : 800-237-4277				
North		Emergency telephone number : 800-255-3924				
America	Canada	Sharp Electronics of Canada Ltd.				
		335 Britannia Road East, Mississauga, Ontario L4Z 1W9				
		Telephone number : 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 : 1300-13-50-22				
	Germany Sharp Electronics (Europe) GMBH					
	,	Sonninstrasse 3, 20097 Hamburg				
		Telephone number : 040-2376-2185				
	United	Sharp Electronics (U. K.) Ltd.				
	Kingdom	4 Furzeground Way, Stockley Park, Uxbridge Middlesex,				
	Ū	UB11 1EZ				
		Telephone number : 08705-274-277				
	France	Sharp Electronics France S.A.				
		22, Avenue des Nations, Paris Nord 2, BP 52094 / 95948				
		Roissy-Charles de Gaulle, Cedex				
		Telephone number: 01-49-90-34-00				
	Austria	Sharp Electronics (Europe) GmbH				
		Handelskai 342 1020 Wien				
		Telephone number : 01-727-19-0				
Europe	Italy	Sharp Electronics (Italy) S.P.A.				
Europe		Via Lampedusa, 13 20141 Milano				
		Telephone number : 02895951				
	Spain	Sharp Electronics (Espana) S.A.				
		Calle Sena, 2-10 Poligono Industrial Can Sant Joan. Parcela 8,				
		08174 Sant Cugat Del Valles				
		Telephone number : 93-581-97-00				
	Netherlands	Sharp Electronics Benelux B.V.				
		P.B. 900 Meidoornkade 10, 3992 AE Houten				
		Telephone number : 30-6359500				
	Sweden	Sharp Electronics Nordic AB				
		Box 14098, Gustavslundsvagen 12, SE-167 14, Bromma				
		Telephone number : 08-634-36-00				
	Switzerland	Sharp Electronics(Schweiz)AG				
		Moosstrasse 2, Postfach 321 8803 Ruschlikon				
ļ		Telephone number : 01-846-6111				
Middle	U.A.E.	Sharp Middle East FZE				
East		P.O.Box 17115 Jebel Ali, Dubai				
2400		Telephone number : 04-8815311				



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	COMPOSITION/IN	FORMATION ON	NINGREDIEN	TS			
	Substance[]	Preparation[X]					
	Ingredient	CAS No.	Proportion	<u>OSHA PEL</u>	ACGIH TLV	MAK-TWA	NOHSC- TWA
	Polyester resin	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
	Wax	Confidential	1-5%	Not listed	Not listed	Not listed	Not listed
	Amorphous silica	68909-20-6	1-5%	80mg/m ³	2mg/m ³	Not listed	Not listed
3.	HAZARDS IDENTI	FICATION					
	Most Important Haz Human Health Eff	ects : There are performe	e no anticipated d using toner.	carcinogenic e			animal tests ns, studies do no
	Environmental Eff	ects : Not toxic to	o aquatic organ	nisms			
	Specific hazards	: Dust explosio	n (like most fine	ely divided orga	nic powders)		
	Directive 1999/45/E		Not classified	-			
	Australian Informat	t ion : Not	classified as h	azardous accor	ding to criteria o	f NOHSC.	
۱.	FIRST-AID MEASU	JRES					
	Route(s) of Entry :	Inhalation?	<u>Skin?</u>		Ingestion?		
		Yes	No	Possi	ible but very unu	sual.	
 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 N	MEASURES					
	Extinguishing Med	ia : V	Vater , CO ₂ , foa	m and dry cher	micals		
	Special Fire fightin	g Procedures : N	lone	-			
	Fire and Explosion		oner material, l hixture.	ike most finely	divided organic	bowders, may f	form an explosive
5.	ACCIDENTAL REL	EASE MEASUR	RES				
	Personal Precautio	ns : N	lone				
	Environmental Pre	cautions : N	lone				
	Methods for Cleani		Vipe off with pap				



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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** : 15mg/m³ (Total Dust) , 5mg/m³ (Respirable Dust) OSHA-PEL(USA) ACGIH-TLV(USA) : 10mg/m³ (Total Dust) , 3mg/m³ (Respirable Dust) **Personal Protective Equipment Respiratory Protection** : None required when used as intended in Sharp equipment. Hand Protection : None required when used as intended in Sharp equipment. Eye Protection : None required when used as intended in Sharp equipment. : None required when used as intended in Sharp equipment. **Skin Protection** Other Protective Equipment : Use of a dust mask and goggles are recommended when handling a large quantity of

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Physical State : Solid	Form: Powder	Color: Black	Odor: odorless
Ph	:	Not applicable		
Boiling/Meltin	g Point :	Not applicable		
Softening Poi	nt(°C) :	00 - 130		
Flash Point(°C	C) :	Not applicable		
Ignition Point	: (°C)	No data		
Explosion Pro	operties :	No data		
Density(g/cm ³	3) :	Approx. 1.1 (bulk density : Appro	ox. 0.4)	
Solubility in w	vater :	Vegligible		

toner or during long term exposure, as with any non-toxic dust.

0. 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, CO_2 and NO_X			
Further Information	: None		



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11. TOXICOLOGICAL INFORMATION

Acute Toxicity		
Ingestion(oral)	: LD ₅₀ >2000mg/kg(Rats)	
Inhalation	: LC ₅₀ >5.00mg/l (Rat,4hr)	
Eye irritation	: Not an irritant(Rabbits)	
Skin irritation	: Not an irritant(Rabbits)	
Skin sensitizer	sitizer : Not sensitized	
Mutagenicity	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.	
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/m ³) exposure group, and a minimal to mild degree of fibrosis was noted in22% of the animals in the middle (4mg/m ³) exposure group, but no pulmonary change was reported in the lowest (1mg/m ³) exposure group, the most relevant level to potential human exposures.	

12.	ECOLOGICAL	INFORMATION
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Ecotoxicity

On available data, toner is not harmful to aquatic organisms

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.



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15. REGULATORY INFORMATION

US Information					
TSCA(Toxic Substances Control Act) :					
uct comply with all applicable rules or order under TSCA.					
SARA(Superfund Amendments and Reauthorization Act) Title III					
: None					
: None					
: Not required					
: 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.

 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.