

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Name : MX-27NTBA/MX-27GTBA/MX-27FTBA (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		Sharp Plaza, Mahwah, NJ				
		Telephone number for information	: 1-800-237-4277			
America		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			
Europe	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[] Preparation[X]

Ingredient Polyester grafted resin	CAS No. Confidential	Proportion 30-40%	OSHA PEL Not listed	ACGIH TLV Not listed	MAK-TWA Not listed	Not listed
Polyester resin	Confidential	50-60%	Not listed	Not listed	Not listed	Not listed
Carbon black	1333-86-4	5-10%	3.5mg/m <sup>3</sup>	3.5mg/m <sup>3</sup>	Not listed	3mg/m <sup>3</sup>
Paraffin wax	Confidential	1-5%	Not listed	Not listed	Not listed	Not listed



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3.	HAZARDS IDENTIFIC	ATION			
	Most Important Hazard	ds and Effe	ts 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				
			any symptoms of fibrosis will	occur.	
			to aquatic organisms		
	•		on (like most finely divided or		
	Directive 1999/45/EC(E	urope)	: Not classified as dangerous	<b>)</b>	
4.	FIRST-AID MEASURE	S			
	Route(s) of Entry : In	halation?	Skin?	Ingestion?	
		Yes		ssible but very unusual.	
			If symptoms occur, consult r	•	
			d water for 15 minutes or until		
			ur, consult medical personnel.		
			-	If irritation does occur, consult medical personnel.	
	-		a drink several glasses of wate	er . If irritation or discomfort does occur, consult	
	medical	personnel.			
5	FIRE -FIGHTING ME	SURES			
<u>J.</u>	Extinguishing Media		Water, CO <sub>2</sub> , foam and dry ch	emicals	
	Special Fire fighting P		-	emicais	
	Fire and Explosion Ha			y divided organic powders, may form an explosive	
			mixture.	y arrada digamo portadio, may form an oxpidence	
6.	ACCIDENTAL RELEA	SE MEAS	IRES		
	<b>Personal Precautions</b>	:	None		
	Environmental Precau	tions	None		
	Methods for Cleaning	Up :		Do not use vacuum cleaner when a large amount i	
			· · · · ·	divided organic powders, is capable of creating	
			dust explosion.		
7.	HANDLING AND STO	RAGE			
	Handling				
	Technical Measures	: None			
	Precautions	: None			
	Safe Handling Advice			nen handling a large quantity of toner or during long ust. Try not to disperse the particles.	
	Storage				
	<b>Technical Measures</b>	: None			
	Storage Conditions	: Keep cor	ntainer 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 CONTR	ROLS/PERSONAL PROTECTION			
Engineering Measur	es Ventilation : Not required under in	ended use.		
Exposure limit value	2S			
OSHA-PEL(USA)	: 15mg/m <sup>3</sup> (Total Dust)	, 5mg/m <sup>3</sup> (F	Respirable Dust)	
ACGIH-TLV(USA)	: 10mg/m <sup>3</sup> (Total Dust)	, 3mg/m <sup>3</sup> (F	Respirable Dust)	
Personal Protective	Equipment			
Respiratory Protection	on : None required when used a	s intended in	Sharp equipment.	
Hand Protection	: None required when used a	s intended in	Sharp equipment.	
Eye Protection	: None required when used a	s intended in	Sharp equipment.	
Skin Protection	: None required when used a	s intended in	Sharp equipment.	
Other Protective Equ	uipment : Use of a dust mask and gog	gles are reco	mmended when ha	ndling a large quantity of
	toner or during long term ex	posure, as v	vith any non-toxic d	ust.
9. PHYSICAL AND CH	IEMICAL PROPERTIES			
Appearance Physi	cal State : Solid Form: F	Powder	Color: Black	Odor: odorless
Ph	: Not applicable			
Boiling/Melting Poin	t : Not applicable			
Softening Point(°C)	: 100 - 130			
Flash Point(°C)	: Not applicable			
Ignition Point(°C)	: No data			
Explosion Properties	s : No data			
Density(g/cm <sup>3</sup> )	: Approx. 1.1 (bulk dens	sity : Approx.	0.4)	
Solubility in water	: Negligible			
10. STABILITY AND R	EACTIVITY			
Stability	: Stable			
Hazardous Reaction	ns : Dust explosion, lik	e most finely	<sup>,</sup> divided organic po	wders.
Conditions to Avoid	d : Electric discharge	, throwing int	o fire.	
Materials to Avoid	: Oxidizing Material			
-	<b>position Products :</b> CO, CO <sub>2</sub> and NO <sub>x</sub>			
Further Information : None				
11. TOXICOLOGICAL	INFORMATION			
Acute Toxicity				
Ingestion(oral)	: LD <sub>50</sub> >2000mg/kg			
Dermal	: LD <sub>50</sub> >2000mg/kg			
Inhalation	: LC <sub>50</sub> >5.00mg/I (Rat,4hr)			
Eye irritation	: Not an irritant			
Skin irritation : Not an irritant				
	Skin sensitizer : Not sensitized			
• •	Negative(Ames Test)		0 00 1	/
	In 1996 the IARC reevaluated carbo carcinogen). This classification is giv evidence, but sufficient animal evidence classification is based upon the develo exposures to free carbon black at lev performed in animal models other than and lung tumors. Moreover, a two-ye where carbon black is bound in a res exposure and tumor development in ra	ven to chemice on which pment of lun vels that indev rats did not sear cancer b sin matrix, de	icals for which the to base an opinion g tumors in rats rec uce particle overloa show any associatio ioassay using a ty	re is inadequate human of carcinogenicity. The ceiving chronic inhalation ad of the lung. Studies on between carbon black pical toner preparation,



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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/m <sup>3</sup> ) exposure group, and a minimal to mild degree of fibrosis was noted in22% of the animals in the middle (4mg/m <sup>3</sup> ) exposure group, but no pulmonary change was reported in the lowest (1mg/m <sup>3</sup> ) exposure group, the most relevant level to potential human exposures.

#### **12. ECOLOGICAL INFORMATION**

#### 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.

#### **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.

Australian Information

Not classified as hazardous according to criteria of NOHSC.

#### **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.