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Date Issued : Apr.1, 2008
MSDS No. F-01641

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: MX-50NTBA/MX-50GTBA/MX-50FTBA

MX-50ATBA/MX-50BTBA/MX-50CTBA (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.

U.S.A. Sharp Electronics Corporation Sharp Plaza, Mahwah, New Jersey 07495-110 Telephone number : 800-237-4277					
Telephone number : 800-237-427	Sharp Plaza, Mahwah, New Jersey 07495-1163				
	7				
North Emergency telephone number : 800-255-3924					
	Sharp Electronics of Canada Ltd.				
335 Britannia Road East, Mississauga, Ontari	io L4Z 1W9				
Telephone number : 905-890-2100					
Emergency telephone number : 1-800-255-39					
	Sharp Corporation of Australia PTY. Ltd.				
	No1 Huntingwood Drive Huntingwood Blacktown N.S.W.				
Germany Sharp Electronics (Europe) GMBH					
Sonninstrasse 3, 20097 Hamburg					
Telephone number : 040-2376-218	85				
United Sharp Electronics (U. K.) Ltd.					
	4 Furzeground Way, Stockley Park, Uxbridge Middlesex,				
UB11 1EZ					
Telephone number : 08705-274-2	77				
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				
'	Sharp Electronics (Europe) GmbH				
Handelskai 342 1020 Wien					
Telephone number : 01-727-19-0					
Italy Sharp Electronics (Italy) S.P.A.	Sharp Electronics (Italy) S.P.A.				
Europe Via Lampedusa, 13 20141 Milano					
Telephone number : 02895951					
Spain Sharp Electronics (Espana) S.A.	Sharp Electronics (Espana) S.A.				
Calle Sena, 2-10 Poligono Industrial Can Sant	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	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)				
	Sharp Electronics(Schweiz)AG				
	Moosstrasse 2, Postfach 321 8803 Ruschlikon				
Telephone number : 01-846-6111					
Middle U.A.E. Sharp Middle East FZE					
Fast P.O.Box 17115 Jebel All, Dubai					
Telephone number : 04-8815311					



Substance[]

Amorphous silica

Wax

MATERIAL SAFETY DATA SHEET

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Not listed

Not listed

2. COMPOSITION/INFORMATION ON INGREDIENTS

Preparation[X]

Confidential

68909-20-6

<u>Ingredient</u>	CAS No.	Proportion	OSHA PEL	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

Not listed

80mg/m³

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

Not listed

2mg/m³

Not listed

Not listed

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

Australian Information : Not classified as hazardous according to criteria of NOHSC.

1-5%

1-5%

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. Ingestion

: 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

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions : None **Environmental Precautions** : None

: Wipe off with paper or cloth. Do not use vacuum cleaner when a large amount is Methods for Cleaning Up

released. It, like most finely divided organic powders, is capable of creating a

dust explosion.



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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

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 : 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.
Skin Protection : None required when used as intended in Sharp equipment.

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
Softening Point(°C) : 100 - 130
Flash Point(°C) : Not applicable
Ignition Point(°C) : No data
Explosion Properties : No data

Density(g/cm³) : Approx. 1.1 (bulk density : Approx. 0.4)

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.

Further Information : None



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11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Ingestion(oral) : $LD_{50}>2000$ mg/kg (Rats) [Estimated from the other product containing similar material] Inhalation : $LC_{50}>5.00$ mg/l (Rat,4hr) [Estimated from the other product containing similar material] : Not an irritant (Rabbits) [Estimated from the other product containing similar material] : Not an irritant (Rabbits) [Estimated from the other product containing similar material]

Skin sensitizer

Mutagenicity

Carcinogenicity

: Not sensitized [Estimated from the other product containing similar material] : Negative(Ames Test) [Estimated from the other product containing similar material]

: 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/m³) exposure group, and a minimal to mild degree of fibrosis was noted in22% 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.



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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.