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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier : MX-20AT-BA / MX-20FT-BA / MX-23AT-BA / MX-23BT-BA / MX-23CT-BA

MX-23FT-BA / MX-23GT-BA / MX-23NT-BA

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/ Mixture : Reprographic agents (Black Toner)

1.3 Details of the supplier of the safety data sheet

Company / Japan : SHARP Corporation

1 Takumi-cho, Sakai-ku, Sakai-city, Osaka, Japan

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

Area	(Country)	(Local suppliers)					
Alea	, ,						
	U.S.A.	Sharp Electronics Corporation					
		100 Paragon Drive, Montvale, Ne					
		Telephone number	: 800-237-4277				
North		Emergency telephone number	: 800-255-3924				
America	Canada	Sharp Electronics of Canada Ltd.					
		335 Britannia Road East, Mississa	auga, Ontario L4Z 1W9				
		Telephone number	: 905-890-2100				
		Emergency telephone number	: 1-800-255-3924				
	Australia	Sharp Corporation of Australia PTY. Ltd.					
Oceania		2 Julius Avenue North Ryde NSW 2113					
		Telephone number	: 1300-13-50-22				
	France	SHARP Manufacturing France S.A.					
		Route de Bollwiller, 68360 Soultz,	Haut Rhin, France				
F		Telephone number	: +49 40 2376-0				
Europe		Emergency telephone number	: +49 40 2376-2525				
		(from 9:00 to 17:00 CET/CEST					
		E-mail address : c	ompliance@sharp.eu				
Middle	U.A.E.	Sharp Middle East FZE					
	···-·	P.O.Box 17115 Jebel Ali, Dubai					
East		Telephone number	: 04-8815311				

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (GHS)

Not Classified as hazardous

2.2 Label elements

Labelling (GHS)

Hazard symbol	: None
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- Signal word : None
- Hazard statements : None

Precautionary statements : None

2.3 Other hazards

Potential dust explosion hazard.



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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical Name	CAS-No.	Concentration
		(%)
Polyester resin	Confidential	80-90
Carbon Black	1333-86-4	5-10
Styrene-Acrylate copolymer	Confidential	1-5
Wax	Confidential	1-5
Iron oxide	1317-61-9	1-5
Amorphous silica	7631-86-9	1-5

SECTION 4: First aid measures

4.1 Description of first aid measures.		
If inhaled		If inhaled, remove to fresh air.
		If not breathing, give artificial respiration.
		If breathing is difficult, give oxygen. Get medical attention.
In case of skin contact	:	Remove contaminated clothing and shoes.
		Get medical attention if irritation develops and persists.
		Wash clothing before reuse.
		Thoroughly clean shoes before reuse.
In case of eye contact	:	If in eyes, rinse well with water.
		Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, get medical attention.
		Rinse mouth thoroughly with water.
4.2 Most important symptoms and effect	s, b	oth acute and delayed
Risks	:	Dust contact with the eyes can lead to mechanical irritation.
4.3 Indication of any immediate medical	atte	ntion and special treatment needed
Treatment	:	Treat symptomatically and supportively.
SECTION 5: Firefighting measures		
5.1 Extinguishing media		
Suitable extinguishing media	:	Water spray
		Alcohol-resistant foam
		Dry chemical
		Carbon dioxide (CO2)
Unsuitable extinguishing media	:	High volume water jet



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5.2 Special hazards arising from the su	ubstan	ce or mixture
Specific hazards during firefighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion products	:	Carbon oxides
		Nitrogen oxides (NOx)
5.3 Advice for firefighters		
Special protective equipment for firefigl	hters:	In the event of fire, wear self-contained breathing apparatus.
		Use personal protective equipment.
SECTION 6: Accidental release mea	asure	S
6.1 Personal precautions, protective ed	quipm	ent and emergency procedures
Personal precautions	:	Use personal protective equipment.
		Follow safe handling advice and personal protective
		equipment recommendations.
6.2 Environmental precautions		
Environmental precautions	:	Discharge into the environment must be avoided.
6.3 Methods and material for containm	ent an	nd cleaning up
Methods for cleaning up	:	Sweep up or vacuum up spillage and collect in suitable
		container for disposal.
		Avoid dispersal of dust in the air (i.e., clearing dust surfaces
		with compressed air).
		Dust deposits should not be allowed to accumulate on
		surfaces, as these may form an explosive mixture if they are
		released into the atmosphere in sufficient concentration.
SECTION 7: Handling and storage		
7.1 Precautions for safe handling		
Technical measures	:	Static electricity may accumulate and ignite suspended dust
		causing an explosion.
		Provide adequate precautions, such as electrical grounding
		and bonding, or inert atmospheres.
Advice on safe handling	:	Do not breathe dust. Do not swallow. Avoid contact with eyes.
		Handle in accordance with good industrial hygiene and safety
		practice.
		Minimize dust generation and accumulation.
		Keep away from heat and sources of ignition.
		Take care to prevent spills, waste and minimize release to the
		environment.
Hygiene measures	:	When using do not eat, drink or smoke.



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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage	:	Keep tightly closed. Keep in a cool, well-ventilated place.
areas and containers		Be stored in accordance with the particular national regulations.
Advice on common storage	:	Do not be stored together with the following product types:
		Strong oxidizing agents
		Organic peroxides
		Explosives
		Gases

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of	Control parameters	Basis
		exposure)		
Amorphous silica	7631-86-9	TWA	80 mg/m3/ (%SiO2)	OSHA PEL
		TWA	3 mg/m3	ACGIH TLV
Carbon black	1333-86-4	TWA	3.5 mg/m3	OSHA PEL
		TWA(Inhalable)	3 mg/m3	ACGIH TLV

8.2 Exposure controls

Engineering measures

Minimize workplace exposure concentrations.

Apply measures to prevent dust explosions.

Personal protective equipment

Eye protection	: Not required under intended use
Hand protection	: Not required under intended use
Skin and body protection	: Not required under intended use
Respiratory protection	: Not required under intended use

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	powder
Colour	:	black
Odour	:	odourless
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	100 - 130 °C



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Initial boiling point and boiling range	: No data available	
Flash point	: Not applicable	
Evaporation rate	: Not applicable	
Flammability (solid, gas)	: Not classified as a flammability hazard	
Upper explosion limit	: No data available	
Lower explosion limit	: No data available	
Vapour pressure	: Not applicable	
Relative vapour density	: Not applicable	
Density	: ca. 1.1 g/cm3	
Bulk density	: ca. 0.4 g/cm3	
Solubility(ies) Water solubility	: negligible	
Partition coefficient: n-octanol/water	: Not applicable	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity	: Not applicable	
9.2 Other information		

No data available

SECTION 10: Stability and reactivity		
10.1 Reactivity		
Not classified as a reactivity hazard.		
10.2 Chemical stability		
Stable under normal conditions.		
10.3 Possibility of hazardous reactions		
Hazardous reactions	:	Dust can form an explosive mixture in the air.
		Can react with strong oxidizing agents.
10.4 Conditions to avoid		
Conditions to avoid	:	None known.
10.5 Incompatible materials		
Materials to avoid	:	Oxidizing agents
10.6 Hazardous decomposition products		

No hazardous decomposition products are known.



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SECTION 11: Toxicological information

11.1 Information on toxicological effects		
Information on likely routes of exposure	:	Inhalation
		Skin contact
		Ingestion
		Eye contact

Acute Toxicity

Ingestion(oral)	: LD ₅₀ > 2000mg/kg	(Rats)
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Inhalation : $LC_{50} > 5.0 mg/L$

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 containing carbon black 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 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.

SECTION 12: Ecological information

12.1 Ecotoxicity Toxicity to fish : LC50: > 100 mg/l Exposure time: 96 h Toxicity to daphnia and other aquatic : EC50: > 100 mg/l invertebrates Exposure time: 48 h Toxicity to algae : EC50: > 100 mg/l Exposure time: 72 h



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12.2 Persistence and degradability				
No data available				
12.3 Bioaccumulative potential				
No data available				
12.4 Mobility in soil				
No data available				
12.5 Other adverse effects				
No data available				
SECTION 13: Disposal considerati	ons			
13.1 Waste treatment methods				
Product	: Dispose of it in accordance with local regulations.			
Contaminated packaging	: Dispose of it as an unused product.			
	Empty containers should be taken to an approved waste			
	handling site for recycling or disposal.			
SECTION 14: Transport informatio	n			
14.1 UN number	: None			
14.2 UN proper shipping name	: None			
14.3 Transport hazard class(es)	: None			
14.4 Packing group	: None			
14.5 Environmental hazards	: None			
14.6 Special precautions for user	: Not applicable			
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code				
Remarks	: Not applicable for product as supplied.			
SECTION 15: Regulatory information				
15.1 Safety, health and environmental	regulations/legislation specific for the substance or mixture			
EU Information				
Regulation (EC) No 649/2012 of the E	European Parliament : Not applicable			
and the Council concerning the expor	t and import of			
dangerous chemicals				
REACH - Candidate List of Substances of Very High : Not applicable				
Concern for Authorisation (Article 59) Regulation (EC) No 1005/2009 on su				
the ozone layer				
Regulation (EC) No 850/2004 on pers	sistent organic pollutants : Not applicable			
US Information				
TSCA (Toxic Substances Control Act):			

TSCA (Toxic Substances Control Act) :

All chemical substances in this product comply with all applicable rules or order under TSCA.



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Canada Information

WHMIS Legislation : This product is not a controlled product

Australian Information

All ingredients was listed on the Australian inventory of chemical substances .

SECTION 16: Other information

Full text of other abbreviation	S	
ACGIH	:	American Conference of Governmental Industrial Hygienists
IARC	:	International Agency for Research on Cancer
OSHA	:	Occupational Safety and Health Administration
PEL	:	Permissible Exposure Limit
TLV	:	Threshold Limit Value
TWA	:	Time Weighted Average
GHS	:	Globally Harmonized System of Classification and Labelling of Chemicals

Further information

Sources of key data used to compile the Safety Data Sheet:

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency,http://echa.europa.eu/

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.Bellman, O.Creutzenberg, C.Dasenbrock, H.Emst, 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.

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