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

1.1 Product identifier : MX-27FTBA / MX-27GTBA / MX-27NTBA

#### 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 supp	oliers)			
	U.S.A.	Sharp Electronics Corporation				
		100 Paragon Drive, Montvale, New Jersey 07645-1779				
			: 800-237-4277			
North		Emergency telephone number	: 800-255-3924			
America	Canada	Sharp Electronics of Canada Ltd.				
		335 Britannia Road East, Mississ	<b>3</b>			
			: 905-890-2100			
		Emergency telephone number				
	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				
Europe		•	: +49 40 2376-0			
Laropo		Emergency telephone number				
		(from 9:00 to 17:00 CET/CES				
			compliance@sharp.eu			
Middle	U.A.E.	Sharp Middle East FZE				
Fact		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
Wax	Confidential	1-5
Amorphous silica	7631-86-9	1-5
Styrene-Acrylate copolymer	Confidential	1-10

#### **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 eff	ects, both acute and delayed
Risks	: Dust contact with the eyes can lead to mechanical irritation.
4.3 Indication of any immediate media	cal attention and special treatment needed
Treatment	: Treat symptomatically and supportively.
SECTION 5: Firefighting measures	5
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 firefighte		In the event of fire, wear self-contained breathing apparatus.
		Use personal protective equipment.
SECTION 6: Accidental release me	asure	S
6.1 Personal precautions, protective e	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

<ul> <li>10.1 Reactivity Not classified as a reactivity hazard. </li> <li>10.2 Chemical stability Stable under normal conditions. </li> <li>10.3 Possibility of hazardous reactions</li></ul>	SECTION 10: Stability and reactivity		
<b>10.2 Chemical stability</b> Stable under normal conditions.	10.1 Reactivity		
Stable under normal conditions.	Not classified as a reactivity hazard.		
	10.2 Chemical stability		
10.3 Possibility of hazardous reactions	Stable under normal conditions.		
	10.3 Possibility of hazardous reactions		
Hazardous reactions : Dust can form an explosive mixture in the air.	Hazardous reactions	:	Dust can form an explosive mixture in the air.
Can react with strong oxidizing agents.			Can react with strong oxidizing agents.
10.4 Conditions to avoid	10.4 Conditions to avoid		
Conditions to avoid : None known.	Conditions to avoid	:	None known.
10.5 Incompatible materials	10.5 Incompatible materials		
Materials to avoid : Oxidizing agents	Materials to avoid	:	Oxidizing agents
10.6 Hazardous decomposition products	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 <sub>50</sub> > 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/m<sup>3</sup>) exposure group, and a minimal to mild degree of fibrosis was noted in 22% 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.

#### **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 considerat	ions
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.
<b>SECTION 14: Transport information</b>	on
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 A	nnex II of MARPOL 73/78 and the IBC Code
Remarks	: Not applicable for product as supplied.
SECTION 15: Regulatory informat	ion
	I regulations/legislation specific for the substance or mixture
EU Information Regulation (EC) No 649/2012 of the	European Parliament : Not applicable
and the Council concerning the expo	
dangerous chemicals	
REACH - Candidate List of Substance	ces of Very High : Not applicable
Concern for Authorisation (Article 59	
Regulation (EC) No 1005/2009 on su	ubstances that deplete : Not applicable
the ozone layer	
•	sistent organic pollutants : Not applicable
US Information	
TSCA (Toxic Substances Control Ac	t) :
All chemical substances in this proc	duct 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 abbreviations		
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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