

Page: 1/8
Date Revised: 1 Nov. 2018
Date Issued: 1 Apr. 2008
SDS No. F-01641 (LO\_EN)

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

1.1 Product identifier: MX-50ATBA / MX-50BTBA / MX-50CTBA / MX-50FTBA / MX-50GTBA / MX-50NTBA

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)		
	U.S.A.	Sharp Electronics Corporation		
North America		100 Paragon Drive, Montvale, New Jersey 07645-1779		
		Telephone number	: 800-237-4277	
		Emergency telephone number	: 800-255-3924	
	Canada	Sharp Electronics of Canada Ltd.		
		335 Britannia Road East, Mississauga, Ontario L4Z 1W9		
			: 905-890-2100	
		Emergency telephone number	: 1-800-255-3924	
Oceania	Australia	Sharp Corporation of Australia PTY. Ltd.		
		2 Julius Avenue North Ryde NSW 2113		
		Telephone number		
Europe	France	SHARP Manufacturing France S.A.		
		Route de Bollwiller, 68360 Soultz, Haut Rhin, France		
		•	: +49 40 2376-0	
		Emergency telephone number		
		(from 9:00 to 17:00 CET/CEST, English, German Only)		
			ompliance@sharp.eu	
Middle	U.A.E.	Sharp Middle East FZE P.O.Box 17115 Jebel Ali, Dubai		
Foot				
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
Signal word : None
Hazard statements : None
Precautionary statements : None

# 2.3 Other hazards

Potential dust explosion hazard.



Page: 2/8
Date Revised: 1 Nov. 2018
Date Issued: 1 Apr. 2008
SDS No. F-01641 (LO\_EN)

# **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	
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, get medical attention.

Rinse mouth thoroughly with water.

#### 4.2 Most important symptoms and effects, both acute and delayed

Risks : Dust contact with the eyes can lead to mechanical irritation.

#### 4.3 Indication of any immediate medical attention 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



Page: 3/8
Date Revised: 1 Nov. 2018
Date Issued: 1 Apr. 2008
SDS No. F-01641 (LO\_EN)

5.2 Special hazards arising from the substance 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 firefighters: In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

**SECTION 6: Accidental release measures** 

6.1 Personal precautions, protective equipment 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 containment and 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.



Page: 4/8
Date Revised: 1 Nov. 2018
Date Issued: 1 Apr. 2008
SDS No. F-01641 (LO\_EN)

# 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 pH : No data available

Melting point/freezing point : 100 - 130 °C



Page: 5/8
Date Revised: 1 Nov. 2018
Date Issued: 1 Apr. 2008
SDS No. F-01641 (LO\_EN)

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.

# **SHARP**

# SAFETY DATA SHEET

Page: 6/8
Date Revised: 1 Nov. 2018
Date Issued: 1 Apr. 2008
SDS No. F-01641 (LO\_EN)

# **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) :  $LD_{50} > 2000 \text{mg/kg}$  (Rats)

Inhalation :  $LC_{50} > 5.0 \text{mg/L}$ 

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



Page: 7/8
Date Revised: 1 Nov. 2018
Date Issued: 1 Apr. 2008
SDS No. F-01641 (LO\_EN)

#### 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 considerations**

#### 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 information**

14.1 UN number: None14.2 UN proper shipping name: None14.3 Transport hazard class(es): None14.4 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 European Parliament : Not applicable

and the Council concerning the export 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 substances that deplete : Not applicable

the ozone layer

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable



Page: 8/8
Date Revised: 1 Nov. 2018
Date Issued: 1 Apr. 2008
SDS No. F-01641 (LO\_EN)

#### **US Information**

TSCA (Toxic Substances Control Act):

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

#### **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.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.