

This document contains the safety data sheets of Sharp MX-27GTBA – Black, MX-27NVSA – Cyan, MX-27NVSA – Magenta and MX-27NVSA – Yellow, as a combined document for this pack is not available.

MATERIAL SAFETY DATA SHEET

Page : 1/4

Date Revised : Aug.2, 2010

Date Issued : Oct.1, 2005

MSDS No. F-31396

1. PRODUCT AND COMPANY IDENTIFICATION**Product Name** : MX-27NVSA/MX-27GVSA/MX-27FVSA (Cyan Developer)**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)	(Local suppliers)
North America	U.S.A.	Sharp Electronics Corporation Sharp Plaza, Mahwah, New Jersey 07495-1163 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 Telephone number : 905-890-2100 Emergency telephone number : 1-800-255-3924
Oceania	Australia	Sharp Corporation of Australia PTY. Ltd. No1 Huntingwood Drive Huntingwood Blacktown N.S.W. Telephone number : 1300-13-50-22
Europe	Germany	Sharp Electronics (Europe) GMBH Sonninstrasse 3, 20097 Hamburg Telephone number : 040-2376-2185
	United Kingdom	Sharp Electronics (U. K.) Ltd. 4 Furzeground Way, Stockley Park, Uxbridge Middlesex, UB11 1EZ Telephone number : 08705-274-277
	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
	Austria	Sharp Electronics (Europe) GmbH Handelskai 342 1020 Wien Telephone number : 01-727-19-0
	Italy	Sharp Electronics (Italy) S.P.A. Via Lampedusa, 13 20141 Milano Telephone number : 02895951
	Spain	Sharp Electronics (Espana) S.A. 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 Telephone number : 30-6359500
	Sweden	Sharp Electronics Nordic AB Box 14098, Gustavslundsvagen 12, SE-167 14, Bromma Telephone number : 08-634-36-00
	Switzerland	Sharp Electronics(Schweiz)AG Moosstrasse 2, Postfach 321 8803 Ruschlikon Telephone number : 01-846-6111
Middle East	U.A.E.	Sharp Middle East FZE P.O.Box 17115 Jebel Ali, Dubai Telephone number : 04-8815311

MATERIAL SAFETY DATA SHEET

Page : 2/4

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MSDS No. F-31396

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance[]	Preparation[X]					
<u>Ingredient</u>	<u>CAS No.</u>	<u>Proportion</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>DFG-MAK</u>	<u>NOHSC- TWA</u>
Ferrite	65997-18-4	90-99%	Not listed	Not listed	Not listed	Not listed
Iron oxide(Fe_2O_3)						
Iron oxide(Fe_3O_4)						
Magnesium oxide						
Polyester resin	Confidential	1-10%	Not listed	Not listed	Not listed	Not listed
Silicone resin	Confidential	1-5%	Not listed	Not listed	Not listed	Not listed
Organic pigment	Confidential	0.1-1%	Not listed	Not listed	Not listed	Not listed

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 indicate any symptoms of fibrosis will occur.

Environmental Effects : Not toxic to aquatic organisms (Estimated from the constituent components)

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.

4. FIRST-AID MEASURES

Route(s) of Entry : <u>Inhalation?</u>	<u>Skin?</u>	<u>Ingestion?</u>
No	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 , CO_2 , 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 mixture.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions : None

Environmental Precautions : None

Methods for Cleaning Up : Wipe off with paper or cloth. Do not use vacuum cleaner when a large amount is released. It, like most finely divided organic powders, is capable of creating a dust explosion.

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: Blue Odor: odorless

Ph : Not applicable**Boiling/Melting Point** : Not applicable**Flash Point(°C)** : Not applicable**Explosion Properties** : No data**Density(g/cm³)** : Approx. 5.0 (bulk density :Approx. 2.0)**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.**Materials to Avoid** : Oxidizing Materials**Hazardous Decomposition Products** : CO, CO₂ and NO_x**Further Information** : None

MATERIAL SAFETY DATA SHEET

Page : 4/4

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MSDS No. F-31396

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Ingestion(oral) : LD₅₀ > 2000mg/kg (Rats) [Estimated from the other product containing similar material]

Inhalation : No datay

Eye irritation : Not an irritant (Rabbits) [Estimated from the other product containing similar material]

Skin irritation : Not an irritant (Rabbits) [Estimated from the other product containing similar material]

Skin sensitizer : Not sensitized [Estimated from the other product containing similar material]

Mutagenicity : Negative(Ames Test) [Estimated from the other product containing similar material]

Carcinogenicity : NTP? IARC Monographs? OHSA Regulated?
No No No

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.

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.

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.

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : MX-27NVSA/MX-27GVSA/MX-27FVSA (Magenta Developer)

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)	(Local suppliers)
North America	U.S.A.	Sharp Electronics Corporation Sharp Plaza, Mahwah, New Jersey 07495-1163 Telephone number : 800-237-4277 Emergency telephone number : 800-255-3924
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Europe	Germany	Sharp Electronics (Europe) GMBH Sonninstrasse 3, 20097 Hamburg Telephone number : 040-2376-2185
	United Kingdom	Sharp Electronics (U. K.) Ltd. 4 Furzeground Way, Stockley Park, Uxbridge Middlesex, UB11 1EZ Telephone number : 08705-274-277
	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
	Austria	Sharp Electronics (Europe) GmbH Handelskai 342 1020 Wien Telephone number : 01-727-19-0
	Italy	Sharp Electronics (Italy) S.P.A. Via Lampedusa, 13 20141 Milano Telephone number : 02895951
	Spain	Sharp Electronics (Espana) S.A. 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 Telephone number : 30-6359500
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MATERIAL SAFETY DATA SHEET

Page : 2/4
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MSDS No. F-31397

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance[]	Preparation[X]					
<u>Ingredient</u>	<u>CAS No.</u>	<u>Proportion</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>DFG-MAK</u>	<u>NOHSC- TWA</u>
Ferrite	65997-18-4	90-99%	Not listed	Not listed	Not listed	Not listed
Iron oxide(Fe_2O_3)						
Iron oxide(Fe_3O_4)						
Magnesium oxide						
Polyester resin	Confidential	1-10%	Not listed	Not listed	Not listed	Not listed
Silicone resin	Confidential	1-5%	Not listed	Not listed	Not listed	Not listed
Organic pigment	Confidential	0.1-1%	Not listed	Not listed	Not listed	Not listed

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 indicate any symptoms of fibrosis will occur.

Environmental Effects : Not toxic to aquatic organisms (Estimated from the constituent components)

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.

4. FIRST-AID MEASURES

Route(s) of Entry : <u>Inhalation?</u>	<u>Skin?</u>	<u>Ingestion?</u>
No	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 , CO_2 , 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 mixture.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions : None

Environmental Precautions : None

Methods for Cleaning Up : Wipe off with paper or cloth. Do not use vacuum cleaner when a large amount is released. It, like most finely divided organic powders, is capable of creating a dust explosion.

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.

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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: Red Odor: odorless

Ph : Not applicable**Boiling/Melting Point** : Not applicable**Flash Point(°C)** : Not applicable**Explosion Properties** : No data**Density(g/cm³)** : Approx. 5.0 (bulk density :Approx. 2.0)**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.**Materials to Avoid** : Oxidizing Materials**Hazardous Decomposition Products** : CO, CO₂ and NO_x**Further Information** : None

MATERIAL SAFETY DATA SHEET

Page : 4/4

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11. TOXICOLOGICAL INFORMATION

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Inhalation : No data

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Skin irritation : Not an irritant (Rabbits) [Estimated from the other product containing similar material]

Skin sensitizer : Not sensitized [Estimated from the other product containing similar material]

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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) :

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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

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16. OTHER INFORMATION

NFPA Rating (USA) : Health=1 Flammability=1 Reactivity=0

WHMIS Legislation (Canada) : This product is not a controlled product.

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.

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

1.1 Product identifier

Trade name : MX-27GTBA

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

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

1.3 Details of the supplier of the safety data sheetCompany : SHARP Electronics Europe Ltd
4 Furzeground Way, Stockley Park, Uxbridge, Middlesex, UB11 1EZ, UK

Telephone : +49 40 2376-0

E-mail address of person : compliance@sharp.eu
responsible for the SDS**1.4 Emergency telephone number**

+49 40 2376-2525 (from 9:00 to 17:00 CET/CEST, English, German Only)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture**Classification (REGULATION (EC) No 1272/2008)**

Not Classified as hazardous

2.2 Label elements**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms : None

Signal word : None

Hazard statements : None

Precautionary statements : None

2.3 Other hazards

Potential dust explosion hazard.

SAFETY DATA SHEET

Revision Date : 30. June 2015
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SECTION 3: Composition/information on ingredients**3.2 Mixtures****Components**

Chemical Name	CAS-No.	EC-No.	Classification (REGULATION (EC) No1272/2008)	Concentration (%)
Polyester resin	Confidential	Confidential	Not classified	80-90
Carbon black	1333-86-4	215-609-9	Not classified	5-10
Wax	Confidential	Confidential	Not classified	1-5
Silicon dioxide	7631-86-9	231-545-4	Not classified	1-5

For explanation of abbreviations see section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures**

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
When symptoms persist or in all cases of doubt seek medical advice.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.
- 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 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

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire.
Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides
Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local
circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to
do so. Evacuate area.

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.
Prevent further leakage or spillage if safe to do so.
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages
cannot be contained.

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).

SAFETY DATA SHEET

Revision Date : 30. June 2015
Date of first issue : 1.October 2005
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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. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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. Keep container tightly closed.
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.
Wash contaminated clothing before re-use. |

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

- | | |
|-----------------|---------------------|
| Specific use(s) | : No data available |
|-----------------|---------------------|

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Carbon black	1333-86-4	TWA	3.5 mg/m ³	GB EH40
		STEL	7 mg/m ³	GB EH40
Silicon dioxide	7631-86-9	TWA (inhalable dust)	6 mg/m ³ (Silica)	GB EH40
		TWA (Respirable dust)	2.4 mg/m ³ (Silica)	GB EH40

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
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. 1.2 g/cm ³
Bulk density	: ca. 0.4 g/cm ³
Solubility(ies)	
Water solubility	: negligible

SAFETY DATA SHEET

Revision Date : 30. June 2015
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Partition coefficient: noctanol/water	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: Not applicable
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

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 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.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

Acute toxicity

Acute oral toxicity : LD50 : > 2.000 mg/kg
Acute inhalation toxicity : LD50 : > 5,0 mg/l

Skin corrosion/irritation

No skin irritation

Serious eye damage/eye irritation

No eye irritation

Respiratory or skin sensitisation

No sensitization

Germ cell mutagenicity

AMES : negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

Not relevant

SECTION 12: Ecological information

12.1 Toxicity

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

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 Results of PBT and vPvB assessment

Not relevant

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Product : Dispose of in accordance with local regulations.
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
- Contaminated packaging : Dispose of as 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 : 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

- 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

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

SAFETY DATA SHEET

Revision Date : 30. June 2015
Date of first issue : 1.October 2005
SDS Number : F-01391

SECTION 16: Other information

Full text of other abbreviations

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

Further information

Sources of key data used to compile : Internal technical data, data from raw material SDSs, OECD
the Safety Data Sheet eChem Portal search results and European Chemicals
Agency, <http://echa.europa.eu/>

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.

MATERIAL SAFETY DATA SHEET

Page : 1/4

Date Revised : Aug.2, 2010

Date Issued : Oct.1, 2005

MSDS No. F-31398

1. PRODUCT AND COMPANY IDENTIFICATION**Product Name** : MX-27NVSA/MX-27GVSA/MX-27FVSA (Yellow Developer)**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)	(Local suppliers)
North America	U.S.A.	Sharp Electronics Corporation Sharp Plaza, Mahwah, New Jersey 07495-1163 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 Telephone number : 905-890-2100 Emergency telephone number : 1-800-255-3924
Oceania	Australia	Sharp Corporation of Australia PTY. Ltd. No1 Huntingwood Drive Huntingwood Blacktown N.S.W. Telephone number : 1300-13-50-22
Europe	Germany	Sharp Electronics (Europe) GMBH Sonninstrasse 3, 20097 Hamburg Telephone number : 040-2376-2185
	United Kingdom	Sharp Electronics (U. K.) Ltd. 4 Furzeground Way, Stockley Park, Uxbridge Middlesex, UB11 1EZ Telephone number : 08705-274-277
	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
	Austria	Sharp Electronics (Europe) GmbH Handelskai 342 1020 Wien Telephone number : 01-727-19-0
	Italy	Sharp Electronics (Italy) S.P.A. Via Lampedusa, 13 20141 Milano Telephone number : 02895951
	Spain	Sharp Electronics (Espana) S.A. 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 Telephone number : 30-6359500
	Sweden	Sharp Electronics Nordic AB Box 14098, Gustavslundsvagen 12, SE-167 14, Bromma Telephone number : 08-634-36-00
	Switzerland	Sharp Electronics(Schweiz)AG Moosstrasse 2, Postfach 321 8803 Ruschlikon Telephone number : 01-846-6111
Middle East	U.A.E.	Sharp Middle East FZE P.O.Box 17115 Jebel Ali, Dubai Telephone number : 04-8815311

MATERIAL SAFETY DATA SHEET

Page : 2/4
Date Revised : Aug.2, 2010
Date Issued : Oct.1, 2005
MSDS No. F-31398

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance[]	Preparation[X]					
<u>Ingredient</u>	<u>CAS No.</u>	<u>Proportion</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>DFG-MAK</u>	<u>NOHSC- TWA</u>
Ferrite	65997-18-4	90-99%	Not listed	Not listed	Not listed	Not listed
Iron oxide(Fe_2O_3)						
Iron oxide(Fe_3O_4)						
Magnesium oxide						
Polyester resin	Confidential	1-10%	Not listed	Not listed	Not listed	Not listed
Silicone resin	Confidential	1-5%	Not listed	Not listed	Not listed	Not listed
Organic pigment	Confidential	0.1-1%	Not listed	Not listed	Not listed	Not listed

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 indicate any symptoms of fibrosis will occur.

Environmental Effects : Not toxic to aquatic organisms (Estimated from the constituent components)

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.

4. FIRST-AID MEASURES

Route(s) of Entry : <u>Inhalation?</u>	<u>Skin?</u>	<u>Ingestion?</u>
No	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 , CO_2 , 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 mixture.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions : None

Environmental Precautions : None

Methods for Cleaning Up : Wipe off with paper or cloth. Do not use vacuum cleaner when a large amount is released. It, like most finely divided organic powders, is capable of creating a dust explosion.

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: Yellow Odor: odorless

Ph : Not applicable**Boiling/Melting Point** : Not applicable**Flash Point(°C)** : Not applicable**Explosion Properties** : No data**Density(g/cm³)** : Approx. 5.0 (bulk density :Approx. 2.0)**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.**Materials to Avoid** : Oxidizing Materials**Hazardous Decomposition Products** : CO, CO₂ and NO_x**Further Information** : None

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

- Ingestion(oral) : LD₅₀ > 2000mg/kg (Rats) [Estimated from the other product containing similar material]
Inhalation : No data
Eye irritation : Not an irritant (Rabbits) [Estimated from the other product containing similar material]
Skin irritation : Not an irritant (Rabbits) [Estimated from the other product containing similar material]
Skin sensitizer : Not sensitized [Estimated from the other product containing similar material]

Mutagenicity : Negative(Ames Test) [Estimated from the other product containing similar material]

Carcinogenicity : NTP? IARC Monographs? OHSA Regulated?
No No No

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.

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.

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.
