



MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name **Black Toner For FS-C8100DN**
 Manufacturer Kyocera Mita Corporation
 Address Kyocera Mita America, Inc.
 225 Sand Road
 Fairfield, NJ 07004
 Telephone Number (973)-808-8444
 Date April 27, 2010

Section 2. Composition/Information on Ingredients

Hazardous Components (Chemical Identity, Common Name/s)	OSHA PEL Subpart Z	ACGIH TLV	IARC	NTP	Weight%
(CAS No. 1333-86-4) Carbon black	3.5mg/m ³ (TWA)	3.5mg/m ³ (TWA)	Group2B	Not Listed	1-5
(CAS No. 7631-86-9) Amorphous Silica	80mg/m ³ /%SiO ₂ (TWA)	Not Listed	Group3	Not Listed	1-5
(Non Hazardous Ingredients)					
Polyester resin					70-80
Styrene acrylate copolymer					5-10
Wax					1-5

Section 3. Hazards Identification

Most Important Hazards None

Specific Hazards None

Potential Health Effects

Ingestion Ingestion is not applicable route of entry for intended use.

Inhalation Prolonged inhalation of excessive dusts may cause lung damage. Use of this product, as intended, does not result in inhalation of excessive dusts.

Eye Contact May cause eye irritation.

Skin Contact Unlikely to cause skin irritation.

Section 4. First Aid Measures

Inhalation Remove from exposure to fresh air and gargle with plenty of water. Seek medical treatment in case of such a symptom as coughing.

Skin Contact Wash with soap and water.

Eye Contact Flush with water immediately and seek medical treatment if irritating.

Ingestion Rinse out mouth. Dilute stomach contents with several glasses of water and seek medical treatment if necessary.

Section 5. Fire Fighting Measures

Extinguishing Media	Water (Sprinkle with water), Foam, Powder, CO ₂ or Dry Chemical Extinguisher.
Fire Fighting Procedure	Do not blow away toner powder. Drain water off around and decrease the atmosphere temperature to extinguish the fire.

Section 6. Accidental Release Measures

Personal Precautions	Avoid inhalation, ingestion, eye and skin contact in case of accidental toner release.
Environmental Precautions	No special precaution.
Method for Cleaning Up	Gather the released toner not to blowing away and wipe up with a wet cloth.

Section 7. Handling and Storage

Handling	Avoid inhalation, ingestion, skin or eye contact. Keep toner container tightly closed. Keep away from children.
Storage	Store in a cool, dry and dark place keeping away from fire. Keep the toner container tightly closed. Keep away from children.

Section 8. Exposure Controls/Personal Protection

Control Parameters<Reference Data>

ACGIH TLV(2008)-TWA	Inhalable fraction 10mg/m ³ , Respirable fraction 3mg/m ³
OSHA PEL(2006)-TWA	Total dust 15mg/m ³ , Respirable fraction 5mg/m ³

Protective Equipment

Respiratory Protection	None required under normal use.
Eye/Face Protection	None required under normal use.
Skin/Hand/Body Protection	None required under normal use.

Ventilation	Ventilator not required under normal use.
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Section 9. Physical and Chemical Properties

Appearance
Physical state
Form
Color
Odor

Solid
Fine powder
Black
Odorless

pH N.A.

Melting Point 115^oC

Explosion Properties Dust explosion is improbable under normal use. Experimental explosiveness of toner is classified into the same rank such kind of powder as flour, dry milk and resin powder according to the pressure rising speed.

Density 1.2-1.4 g/cm³

Solubility Almost insoluble in water.

Section 10. Stability and Reactivity

Stability/Reactivity	Stable under normal use.
Hazardous Decomposition Products	None

Section 11. Toxicological Information

Acute oral toxicity	No data available.
Acute dermal toxicity	No data available.
Acute inhalation toxicity	No data available.
Acute eye irritation	No data available.
Acute skin irritation	No data available.
Skin sensitization	No data available.
Mutagenicity	Ames Test is Negative.
Reproductive Toxicity	No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and EU Directive(67/548/EEC).
Carcinogenicity	No carcinogen or potential carcinogen (except carbon black), according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK, California Proposition 65, TRGS 905 and EU Directive(67/548/EEC).

In 1996, the IARC reevaluated carbon black as a Group 2B carcinogen (possible human carcinogen). This evaluation is given to carbon black for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rat receiving chronic inhalation exposures to free carbon black at level that induce particle overload of the lung.

Studies performed in animal models other than rats have not demonstrated an association between carbon black and lung tumors. Moreover, a two-year's cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats.

Chronic effects:

In a study in rats by 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 ($16\text{mg}/\text{m}^3$) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle ($4\text{mg}/\text{m}^3$) exposure group. But no pulmonary change was reported in the lowest ($1\text{mg}/\text{m}^3$) exposure group, the most relevant level to potential human exposures.

Others	None
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Section 12. Ecological Information

No data available.

Section 13. Disposal Considerations

Do not incinerate toner and toner containers. Dangerous sparks may cause burn.
Any disposal practice should be done under conditions which meet local, state and federal laws and regulations relating to waste (contact local or state environmental agency for specific rules).

Section 14. Transport Information

UN No.	None
UN Shipping Name	None
UN Classification	None
UN Packing Group	None
Special Precautions	None

Section 15. Regulatory Information

EU Information

Label information according to the Directives 67/548/EEC and 1999/45/EEC

Symbol and Indication	Not required
R-Phrase	Not required
S-Phrase	Not required
Special Markings	Not required
Hazardous ingredients for labeling	None

US Information

All components in this product comply with order under TSCA.

Canada Information

This product is not a WHMIS-controlled product, since we consider it as a Manufactured article.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.

End of MSDS



MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name **Cyan Toner For FS-C8100DN**
 Manufacturer Kyocera Mita Corporation
 Address Kyocera Mita America, Inc.
 225 Sand Road
 Fairfield, NJ 07004
 Telephone Number (973)-808-8444
 Date April 27, 2010

Section 2. Composition/Information on Ingredients

Hazardous Components (Chemical Identity, Common Name/s)	OSHA PEL Subpart Z	ACGIH TLV	IARC	NTP	Weight%
(CAS No. 7631-86-9) Amorphous Silica	80mg/m3/%SiO ₂ (TWA)	Not Listed	Group3	Not Listed	1-5
(Non Hazardous Ingredients)					
Polyester resin					80-90
Styrene acrylate copolymer					1-5
Wax					1-5
Organic pigment					1-5

Section 3. Hazards Identification

Most Important Hazards None

Specific Hazards None

Potential Health Effects

Ingestion Ingestion is not applicable route of entry for intended use.

Inhalation Prolonged inhalation of excessive dusts may cause lung damage. Use of this product, as intended, does not result in inhalation of excessive dusts.

Eye Contact May cause eye irritation.

Skin Contact Unlikely to cause skin irritation.

Section 4. First Aid Measures

Inhalation Remove from exposure to fresh air and gargle with plenty of water. Seek medical treatment in case of such a symptom as coughing.

Skin Contact Wash with soap and water.

Eye Contact Flush with water immediately and seek medical treatment if irritating.

Ingestion Rinse out mouth. Dilute stomach contents with several glasses of water and seek medical treatment if necessary.

Section 5. Fire Fighting Measures

Extinguishing Media	Water (Sprinkle with water), Foam, Powder, CO ₂ or Dry Chemical Extinguisher.
Fire Fighting Procedure	Do not blow away toner powder. Drain water off around and decrease the atmosphere temperature to extinguish the fire.

Section 6. Accidental Release Measures

Personal Precautions	Avoid inhalation, ingestion, eye and skin contact in case of accidental toner release.
Environmental Precautions	No special precaution.
Method for Cleaning Up	Gather the released toner not to blowing away and wipe up with a wet cloth.

Section 7. Handling and Storage

Handling	Avoid inhalation, ingestion, skin or eye contact. Keep away from children. Keep the toner container tightly closed.
Storage	Store in a cool, dry and dark place keeping away from fire. Keep the toner container tightly closed. Keep away from children.

Section 8. Exposure Controls/Personal Protection

Control Parameters<Reference Data>

ACGIH TLV(2008)-TWA	Inhalable fraction 10mg/m ³ , Respirable fraction 3mg/m ³
OSHA PEL(2006)-TWA	Total dust 15mg/m ³ , Respirable fraction 5mg/m ³

Protective Equipment

Respiratory Protection	None required under normal use.
Eye/Face Protection	None required under normal use.
Skin/Hand/Body Protection	None required under normal use.

Ventilation Ventilator not required under normal use.

Section 9. Physical and Chemical Properties

Appearance
Physical state
Form
Color
Odor

Solid
Fine powder
Cyan
Odorless

pH N.A.

Melting Point 115^oC

Explosion Properties Dust explosion is improbable under normal use. Experimental explosiveness of toner is classified into the same rank such kind of powder as flour, dry milk and resin powder according to the pressure rising speed.

Density 1.2-1.4 g/cm³

Solubility Almost insoluble in water.

Section 10. Stability and Reactivity

Stability/Reactivity Stable under normal use.

Hazardous Decomposition Products None

Section 11. Toxicological Information

Acute oral toxicity No data available.

Acute dermal toxicity No data available.

Acute inhalation toxicity No data available.

Acute eye irritation No data available.

Acute skin irritation No data available.

Skin sensitization No data available.

Mutagenicity Ames Test is Negative.

Reproductive Toxicity No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and EU Directive(67/548/EEC).

Carcinogenicity No carcinogen or potential carcinogen according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK, California Proposition 65, TRGS905 and EU Directive (67/548/EEC).

Chronic Effects In a study in rats by 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 animal 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.

Other Information None

Section 12. Ecological Information

No data available

Section 13. Disposal Considerations

Do not incinerate toner and toner containers. Dangerous sparks may cause burn. Any disposal practice should be done under conditions which meet local, state and federal laws and regulations relating to waste (contact local or state environmental agency for specific rules).

Section 14. Transport Information

UN No. None

UN Shipping Name None

UN Classification None

UN Packing Group None

Special Precautions None

Section 15. Regulatory Information

EU Information

Label information according to the Directives 67/548/EEC and 1999/45/EEC

Symbol and Indication	Not required
R-Phrase	Not required
S-Phrase	Not required
Special Markings	Not required
Hazardous ingredients for labeling	None

US Information

All components in this product comply with order under TSCA.

Canada Information

This product is not a WHMIS-controlled product, since we consider it as a Manufactured article.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.

Abbreviation

OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
ACGIH	American Conference of Governmental Industrial Hygienists
TLV	Threshold Limit Value
TWA	Time Weighted Average
MAK	Maximale Arbeitsplatzkonzentrationen unter Deutsche Forschungsgemeinschaft
TRGS	Technische Regeln für Gefahrstoffe (Deutsche)
IARC	International Agency for Research on Cancer
EPA	Environmental Protection Agency (USA)
NTP	National Toxicology Program
ILO	International Labour Office
UN	United Nations
TSCA	Toxic Substances Control Act (USA)
WHMIS	Workplace Hazardous Materials Information System (Canada)

End of MSDS



MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name **Magenta Toner For FS-C8100DN**
 Manufacturer Kyocera Mita Corporation
 Address Kyocera Mita America, Inc.
 225 Sand Road
 Fairfield, NJ 07004
 Telephone Number (973)-808-8444
 Date April 27, 2010

Section 2. Composition/Information on Ingredients

Hazardous Components (Chemical Identity, Common Name/s)	OSHA PEL Subpart Z	ACGIH TLV	IARC	NTP	Weight%
(CAS No. 7631-86-9) Amorphous Silica	80mg/m3/%SiO ₂ (TWA)	Not Listed	Group3	Not Listed	1-5
(Non Hazardous Ingredients)					
Polyester resin					80-90
Organic pigment					1-5
Wax 1					1-5
Wax 2					1-5

Section 3. Hazards Identification

Most Important Hazards None

Specific Hazards None

Potential Health Effects

Ingestion Ingestion is not applicable route of entry for intended use.

Inhalation Prolonged inhalation of excessive dusts may cause lung damage. Use of this product, as intended, does not result in inhalation of excessive dusts.

Eye Contact May cause eye irritation.

Skin Contact Unlikely to cause skin irritation.

Section 4. First Aid Measures

Inhalation Remove from exposure to fresh air and gargle with plenty of water. Seek medical treatment in case of such a symptom as coughing.

Skin Contact Wash with soap and water.

Eye Contact Flush with water immediately and seek medical treatment if irritating.

Ingestion Rinse out mouth. Dilute stomach contents with several glasses of water and seek medical treatment if necessary.

Section 5. Fire Fighting Measures

Extinguishing Media	Water (Sprinkle with water), Foam, Powder, CO ₂ or Dry Chemical Extinguisher.
Fire Fighting Procedure	Do not blow away toner powder. Drain water off around and decrease the atmosphere temperature to extinguish the fire.

Section 6. Accidental Release Measures

Personal Precautions	Avoid inhalation, ingestion, eye and skin contact in case of accidental toner release.
Environmental Precautions	No special precaution.
Method for Cleaning Up	Gather the released toner not to blowing away and wipe up with a wet cloth.

Section 7. Handling and Storage

Handling	Avoid inhalation, ingestion, skin or eye contact. Keep away from children. Keep the toner container tightly closed.
Storage	Store in a cool, dry and dark place keeping away from fire. Keep the toner container tightly closed. Keep away from children.

Section 8. Exposure Controls/Personal Protection

Control Parameters<Reference Data>

ACGIH TLV(2008)-TWA	Inhalable fraction 10mg/m ³ , Respirable fraction 3mg/m ³
OSHA PEL(2006)-TWA	Total dust 15mg/m ³ , Respirable fraction 5mg/m ³

Protective Equipment

Respiratory Protection	None required under normal use.
Eye/Face Protection	None required under normal use.
Skin/Hand/Body Protection	None required under normal use.

Ventilation	Ventilator not required under normal use.
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Section 9. Physical and Chemical Properties

Appearance
Physical state
Form
Color
Odor

Solid
Fine powder
Magenta
Odorless

pH N.A.

Melting Point 115^oC

Explosion Properties Dust explosion is improbable under normal use. Experimental explosiveness of toner is classified into the same rank such kind of powder as flour, dry milk and resin powder according to the pressure rising speed.

Density 1.2-1.4 g/cm³

Solubility Almost insoluble in water.

Section 10. Stability and Reactivity

Stability/Reactivity Stable under normal use.
Hazardous Decomposition Products None

Section 11. Toxicological Information

Acute oral toxicity No data available.
Acute dermal toxicity No data available.
Acute inhalation toxicity No data available.
Acute eye irritation No data available.
Acute skin irritation No data available.
Skin sensitization No data available.
Mutagenicity Ames Test is Negative.
Reproductive Toxicity No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and EU Directive(67/548/EEC).
Carcinogenicity No carcinogen or potential carcinogen according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK, California Proposition 65, TRGS905 and EU Directive (67/548/EEC).
Chronic effects In a study in rats by 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 animal 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.
Other Information None

Section 12. Ecological Information

No data available

Section 13. Disposal Considerations

Do not incinerate toner and toner containers. Dangerous sparks may cause burn. Any disposal practice should be done under conditions which meet local, state and federal laws and regulations relating to waste (contact local or state environmental agency for specific rules).

Section 14. Transport Information

UN No. None
UN Shipping Name None
UN Classification None
UN Packing Group None
Special Precautions None

Section 15. Regulatory Information

EU Information

Label information according to the Directives 67/548/EEC and 1999/45/EEC

Symbol and Indication	Not required
R-Phrase	Not required
S-Phrase	Not required
Special Markings	Not required
Hazardous ingredients for labeling	None

US Information

All components in this product comply with order under TSCA.

Canada Information

This product is not a WHMIS-controlled product, since we consider it as a Manufactured article.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.

Abbreviation

OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
ACGIH	American Conference of Governmental Industrial Hygienists
TLV	Threshold Limit Value
TWA	Time Weighted Average
MAK	Maximale Arbeitsplatzkonzentrationen unter Deutsche Forschungsgemeinschaft
TRGS	Technische Regeln für Gefahrstoffe (Deutsche)
IARC	International Agency for Research on Cancer
EPA	Environmental Protection Agency (USA)
NTP	National Toxicology Program
ILO	International Labour Office
UN	United Nations
TSCA	Toxic Substances Control Act (USA)
WHMIS	Workplace Hazardous Materials Information System (Canada)

 End of MSDS



MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name **Yellow Toner For FS-C8100DN**
 Manufacturer Kyocera Mita Corporation
 Address Kyocera Mita America, Inc.
 225 Sand Road
 Fairfield, NJ 07004
 Telephone Number (973)-808-8444
 Date April 27, 2010

Section 2. Composition/Information on Ingredients

Hazardous Components (Chemical Identity, Common Name/s)	OSHA PEL SubpartZ	ACGIH TLV	IARC	NTP	Weight%
(CAS No. 7631-86-9) Amorphous Silica	80mg/m3/%SiO ₂ (TWA)	Not Listed	Group3	Not Listed	1-5
(Non Hazardous Ingredients)					
Polyester resin					80-90
Styrene acrylate copolymer					1-5
Wax					1-5
Organic pigment					1-5

Section 3. Hazards Identification

Most Important Hazards None

Specific Hazards None

Potential Health Effects

- Ingestion Ingestion is not applicable route of entry for intended use.
- Inhalation Prolonged inhalation of excessive dusts may cause lung damage. Use of this product, as intended, does not result in inhalation of excessive dusts.
- Eye Contact May cause eye irritation.
- Skin Contact Unlikely to cause skin irritation.

Section 4. First Aid Measures

- Inhalation Remove from exposure to fresh air and gargle with plenty of water. Seek medical treatment in case of such a symptom as coughing.
- Skin Contact Wash with soap and water.
- Eye Contact Flush with water immediately and seek medical treatment if irritating.
- Ingestion Rinse out mouth. Dilute stomach contents with several glasses of water and seek medical treatment if necessary.

Section 5. Fire Fighting Measures

Extinguishing Media	Water (Sprinkle with water), Foam, Powder, CO ₂ or Dry Chemical Extinguisher.
Fire Fighting Procedure	Do not blow away toner powder. Drain water off around and decrease the atmosphere temperature to extinguish the fire.

Section 6. Accidental Release Measures

Personal Precautions	Avoid inhalation, ingestion, eye and skin contact in case of accidental toner release.
Environmental Precautions	No special precaution.
Method for Cleaning Up	Gather the released toner not to blowing away and wipe up with a wet cloth.

Section 7. Handling and Storage

Handling	Avoid inhalation, ingestion, skin or eye contact. Keep away from children. Keep the toner container tightly closed.
Storage	Store in a cool, dry and dark place keeping away from fire. Keep the toner container tightly closed. Keep away from children.

Section 8. Exposure Controls/Personal Protection

Control Parameters<Reference Data>

ACGIH TLV(2008)-TWA	Inhalable fraction 10mg/m ³ , Respirable fraction 3mg/m ³
OSHA PEL(2006)-TWA	Total dust 15mg/m ³ , Respirable fraction 5mg/m ³

Protective Equipment

Respiratory Protection	None required under normal use.
Eye/Face Protection	None required under normal use.
Skin/Hand/Body Protection	None required under normal use.

Ventilation	Ventilator not required under normal use.
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Section 9. Physical and Chemical Properties

Appearance

Physical state	Solid
Form	Fine powder
Color	Yellow
Odor	Odorless

pH	N.A.
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Melting Point	115°C
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Explosion Properties	Dust explosion is improbable under normal use. Experimental explosiveness of toner is classified into the same rank such kind of powder as flour, dry milk and resin powder according to the pressure rising speed.
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Density	1.2-1.4 g/cm ³
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Solubility	Almost insoluble in water.
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Section 10. Stability and Reactivity

Stability/Reactivity Stable under normal use.

Hazardous Decomposition Products None

Section 11. Toxicological Information

Acute oral toxicity No data available.

Acute dermal toxicity No data available.

Acute inhalation toxicity No data available.

Acute eye irritation No data available.

Acute skin irritation No data available.

Skin sensitization No data available.

Mutagenicity Ames Test is Negative.

Reproductive Toxicity No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and EU Directive(67/548/EEC).

Carcinogenicity No carcinogen or potential carcinogen according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK, California Proposition 65, TRGS905 and EU Directive (67/548/EEC).

Chronic effects In a study in rats by 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 animal 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.

Other Information None

Section 12. Ecological Information

No data available

Section 13. Disposal Considerations

Do not incinerate toner and toner containers. Dangerous sparks may cause burn. Any disposal practice should be done under conditions which meet local, state and federal laws and regulations relating to waste (contact local or state environmental agency for specific rules).

Section 14. Transport Information

UN No. None

UN Shipping Name None

UN Classification None

UN Packing Group None

Special Precautions None

Section 15. Regulatory Information

EU Information

Label information according to the Directives 67/548/EEC and 1999/45/EEC

Symbol and Indication	Not required
R-Phrase	Not required
S-Phrase	Not required
Special Markings	Not required
Hazardous ingredients for labeling	None

US Information

All components in this product comply with order under TSCA.

Canada Information

This product is not a WHMIS-controlled product, since we consider it as a Manufactured article.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.

Abbreviation

OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
ACGIH	American Conference of Governmental Industrial Hygienists
TLV	Threshold Limit Value
TWA	Time Weighted Average
MAK	Maximale Arbeitsplatzkonzentrationen unter Deutsche Forschungsgemeinschaft
TRGS	Technische Regeln für Gefahrstoffe (Deutsche)
IARC	International Agency for Research on Cancer
EPA	Environmental Protection Agency (USA)
NTP	National Toxicology Program
ILO	International Labour Office
UN	United Nations
TSCA	Toxic Substances Control Act (USA)
WHMIS	Workplace Hazardous Materials Information System (Canada)

End of MSDS

Section 1. Chemical Product and Company Identification

Product Name **Black Developer For FS-C8100DN**
Manufacturer Kyocera Mita Corporation
Address Kyocera Mita America, Inc.
 225 Sand Road
 Fairfield, NJ 07004
Telephone Number (973)-808-8444
Date April 27, 2010

Section 2. Composition/Information on Ingredients

Hazardous Components (Chemical Identity, Common Name/s)	OSHA PEL SubpartZ	ACGIH TLV	IARC	NTP	Weight%
(CAS No. 66402-68-4) Ferrite (Ferrite including manganese)	5mg/m ³ (Ceiling) Manganese compounds (asMn)	0.2mg/m ³ (TWA) (Manganese and inorganic compounds as Mn)	Not Listed	Not Listed	85-95 (as Mn:15-20)
(CAS No. 1333-86-4) Carbon black	3.5mg/m ³ (TWA)	3.5mg/m ³ (TWA)	Group2B	Not Listed	<1
(Non Hazardous Ingredients)					
Polyester resin					5-10

Section 3. Hazards Identification

Most Important Hazards None
Specific Hazards None
Other Information on Hazards: Potential Health Effects

Ingestion Ingestion is not applicable route of entry for intended use.
 Inhalation Prolonged inhalation of excessive dusts may cause lung damage.
 Use of this product, as intended, does not result in inhalation of excessive dusts.
 Eye Contact May cause eye irritation.
 Skin Contact Unlikely to cause skin irritation.

Section 4. First Aid Measures

Inhalation Remove from exposure to fresh air and gargle with plenty of water. Seek medical treatment in case of such a symptom as coughing.
Skin Contact Wash with soap and water.
Eye Contact Flush with water immediately and seek medical treatment if irritating.
Ingestion Rinse out mouth. Dilute stomach contents with several glasses of water and seek medical treatment if necessary.

Section 5. Fire Fighting Measures

Extinguishing Media	Water (Sprinkle with water), Foam, Powder, CO ₂ or Dry Chemical Extinguisher.
Fire Fighting Procedure	Do not blow away developer powder. Drain water off around and decrease the atmosphere temperature to extinguish the fire.

Section 6. Accidental Release Measures

Personal Precautions	Avoid inhalation, ingestion, eye and skin contact in case of accidental developer release.
Environmental Precautions	No special precaution.
Method for Cleaning Up	Gather the released developer not to blowing away and wipe up with a wet cloth.

Section 7. Handling and Storage

Handling	Avoid inhalation, ingestion, skin or eye contact. Keep the developer unit tightly closed. Keep away from children.
Storage	Store in a cool, dry and dark place keeping away from fire. Keep the developer unit tightly closed. Keep away from children.

Section 8. Exposure Controls/Personal Protection

Control Parameters<Reference Data>

ACGIH TLV(2008)-TWA	Inhalable fraction 10mg/m ³ , Respirable fraction 3mg/m ³
OSHA PEL(2006)-TWA	Total dust 15mg/m ³ , Respirable fraction 5mg/m ³

Protective Equipment

Respiratory Protection	None required under normal use.
Eye/Face Protection	None required under normal use.
Skin/Hand/Body Protection	None required under normal use.

Ventilation	Ventilator not required under normal use.
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Section 9. Physical and Chemical Properties

Appearance

Physical state
Form
Color
Odor

Solid
Fine powder
Black
Odorless

pH N.A.

Melting Point 115°C

Explosion Properties Dust explosion is improbable under normal use. Experimental explosiveness of toner is classified into the same rank such kind of powder as flour, dry milk and resin powder according to the pressure rising speed.

Density 3.5-5.0g/cm³

Solubility Almost insoluble in water.

Section 10. Stability and Reactivity

Stability/Reactivity Stable under normal use.
Hazardous Decomposition Products None

Section 11. Toxicological Information

Acute oral toxicity No data available.
Acute dermal toxicity No data available.
Acute inhalation toxicity No data available.
Acute eye irritation No data available.
Acute skin irritation No data available.
Skin sensitization No data available.
Mutagenicity Ames Test is Negative.[Toner]
 Ames Test is Negative[Carrier]
 (Estimated from the data of constituent materials)
Reproductive Toxicity No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and EU Directive(67/548/EEC).
Carcinogenicity No carcinogen or potential carcinogen (except carbon black), according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK, California Proposition 65, TRGS 905 and EU Directive(67/548/EEC).

In 1996, the IARC reevaluated carbon black as a Group 2B carcinogen (possible human carcinogen). This evaluation is given to carbon black for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rat receiving chronic inhalation exposures to free carbon black at level that induce particle overload of the lung. Studies performed in animal models other than rats have not demonstrated an association between carbon black and lung tumors. Moreover, a two-year's cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats.

Chronic effects:

In a study in rats by 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 animal 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.

Other Information None

Section 12. Ecological Information

No data available.

Section 13. Disposal Considerations

Do not incinerate developer and developer unit. Dangerous sparks may cause burn. Any disposal practice should be done under conditions which meet local, state and federal laws and regulations relating to waste (contact local or state environmental agency for specific rules).

Section 14. Transport Information

UN No.	None
UN Shipping Name	None
UN Classification	None
UN Packing Group	None
Special Precautions	None

Section 15. Regulatory Information

EU Information

Label information according to the Directives 67/548/EEC and 1999/45/EEC

Symbol and Indication	Not required
R-Phrase	Not required
S-Phrase	Not required
Special Markings	Not required
Hazardous ingredients for labeling	None

US Information

All components in this product comply with order under TSCA.

Canada Information

This product is not a WHMIS-controlled product, since we consider it as a Manufactured article.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.

End of MSDS

Section 1. Chemical Product and Company Identification

Product Name **Cyan Developer For FS-C8100DN**
Manufacturer Kyocera Mita Corporation
Address Kyocera Mita America, Inc.
 225 Sand Road
 Fairfield, NJ 07004
Telephone Number (973)-808-8444
Date April 27, 2010

Section 2. Composition/Information on Ingredients

Hazardous Components (Chemical Identity, Common Name/s)	OSHA PEL Subpart Z	ACGIH TLV	IARC	NTP	Weight%
(CAS No. 66402-68-4) Ferrite (Ferrite including manganese)	5mg/m ³ (Ceiling) Manganese compounds (asMn)	0.2mg/m ³ (TWA) (Manganese and inorganic compounds as Mn)	Not Listed	Not Listed	85-95 (as Mn:15-20)
(Non Hazardous Ingredients)					
Polyester resin					5-10

Section 3. Hazards Identification

Most Important Hazards None
Specific Hazards None
Other Information on Hazards: Potential Health Effects
 Ingestion Ingestion is not applicable route of entry for intended use.
 Inhalation Prolonged inhalation of excessive dusts may cause lung damage.
 Use of this product, as intended, does not result in inhalation of excessive dusts.
 Eye Contact May cause eye irritation.
 Skin Contact Unlikely to cause skin irritation.

Section 4. First Aid Measures

Inhalation Remove from exposure to fresh air and gargle with plenty of water. Seek medical treatment in case of such a symptom as coughing.
Skin Contact Wash with soap and water.
Eye Contact Flush with water immediately and seek medical treatment if irritating.
Ingestion Rinse out mouth. Dilute stomach contents with several glasses of water and seek medical treatment if necessary.

Section 5. Fire Fighting Measures

Extinguishing Media	Water (Sprinkle with water), Foam, Powder, CO ₂ or Dry Chemical Extinguisher.
Fire Fighting Procedure	Do not blow away developer powder. Drain water off around and decrease the atmosphere temperature to extinguish the fire.

Section 6. Accidental Release Measures

Personal Precautions	Avoid inhalation, ingestion, eye and skin contact in case of accidental developer release.
Environmental Precautions	No special precaution.
Method for Cleaning Up	Gather the released developer not to blowing away and wipe up with a wet cloth.

Section 7. Handling and Storage

Handling	Avoid inhalation, ingestion, skin or eye contact. Keep the developer unit tightly closed. Keep away from children.
Storage	Store in a cool, dry and dark place keeping away from fire. Keep the developer unit tightly closed. Keep away from children.

Section 8. Exposure Controls/Personal Protection

Control Parameters<Reference Data>

ACGIH TLV(2008)-TWA	Inhalable fraction 10mg/m ³ , Respirable fraction 3mg/m ³
OSHA PEL(2006)-TWA	Total dust 15mg/m ³ , Respirable fraction 5mg/m ³

Protective Equipment

Respiratory Protection	None required under normal use.
Eye/Face Protection	None required under normal use.
Skin/Hand/Body Protection	None required under normal use.

Ventilation	Ventilator not required under normal use.
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Section 9. Physical and Chemical Properties

Appearance

Physical state
Form
Color
Odor

Solid
Fine powder
Cyan
Odorless

pH N.A.

Melting Point 115^oC

Explosion Properties Dust explosion is improbable under normal use. Experimental explosiveness of toner is classified into the same rank such kind of powder as flour, dry milk and resin powder according to the pressure rising speed.

Density 3.5-5.0g/cm³

Solubility Almost insoluble in water.

Section 10. Stability and Reactivity

Stability/Reactivity Stable under normal use.
Hazardous Decomposition Products None

Section 11. Toxicological Information

Acute oral toxicity No data available.
Acute dermal toxicity No data available.
Acute inhalation toxicity No data available.
Acute eye irritation No data available.
Acute skin irritation No data available.
Skin sensitization No data available.
Mutagenicity Ames Test is Negative. [Toner]
Ames Test is Negative.[Carrier]
(Estimated from the data of constituent materials.)
Reproductive Toxicity No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and EU Directive(67/548/EEC).
Carcinogenicity No carcinogen or potential carcinogen according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK, California Proposition 65, TRGS905 and EU Directive (67/548/EEC).
Chronic effects In a study in rats by 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 animal 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.
Other Information None

Section 12. Ecological Information

No data available

Section 13. Disposal Considerations

Do not incinerate developer and developer unit. Dangerous sparks may cause burn. Any disposal practice should be done under conditions which meet local, state and federal laws and regulations relating to waste (contact local or state environmental agency for specific rules).

Section 14. Transport Information

UN No. None
UN Shipping Name None
UN Classification None
UN Packing Group None
Special Precautions None

Section 15. Regulatory Information

EU Information

Label information according to the Directives 67/548/EEC and 1999/45/EEC

Symbol and Indication	Not required
R-Phrase	Not required
S-Phrase	Not required
Special Markings	Not required
Hazardous ingredients for labeling	None

US Information

All components in this product comply with order under TSCA.

Canada Information

This product is not a WHMIS-controlled product, since we consider it as a Manufactured article.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.

Abbreviation

OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
ACGIH	American Conference of Governmental Industrial Hygienists
TLV	Threshold Limit Value
TWA	Time Weighted Average
MAK	Maximale Arbeitsplatzkonzentrationen unter Deutsche Forschungsgemeinschaft
TRGS	Technische Regeln für Gefahrstoffe (Deutsche)
IARC	International Agency for Research on Cancer
EPA	Environmental Protection Agency (USA)
NTP	National Toxicology Program
ILO	International Labour Office
UN	United Nations
TSCA	Toxic Substances Control Act (USA)
WHMIS	Workplace Hazardous Materials Information System (Canada)

End of MSDS

Section 1. Chemical Product and Company Identification

Product Name **Magenta Developer For FS-C8100DN**
Manufacturer Kyocera Mita Corporation
Address Kyocera Mita America, Inc.
 225 Sand Road
 Fairfield, NJ 07004
Telephone Number (973)-808-8444
Date April 27, 2010

Section 2. Composition/Information on Ingredients

Hazardous Components (Chemical Identity, Common Name/s)	OSHA PEL Subpart Z	ACGIH TLV	IARC	NTP	Weight%
(CAS No. 66402-68-4) Ferrite (Ferrite including manganese)	5mg/m ³ (Ceiling) Manganese compounds (asMn)	0.2mg/m ³ (TWA) (Manganese and inorganic compounds as Mn)	Not Listed	Not Listed	85-95 (as Mn:15-20)
(Non Hazardous Ingredients)					
Polyester resin					5-10

Section 3. Hazards Identification

Most Important Hazards None
Specific Hazards None
Other Information on Hazards: Potential Health Effects
 Ingestion Ingestion is not applicable route of entry for intended use.
 Inhalation Prolonged inhalation of excessive dusts may cause lung damage.
 Use of this product, as intended, does not result in inhalation of excessive dusts.
 Eye Contact May cause eye irritation.
 Skin Contact Unlikely to cause skin irritation.

Section 4. First Aid Measures

Inhalation Remove from exposure to fresh air and gargle with plenty of water. Seek medical treatment in case of such a symptom as coughing.
Skin Contact Wash with soap and water.
Eye Contact Flush with water immediately and seek medical treatment if irritating.
Ingestion Rinse out mouth. Dilute stomach contents with several glasses of water and seek medical treatment if necessary.

Section 5. Fire Fighting Measures

Extinguishing Media	Water (Sprinkle with water), Foam, Powder, CO ₂ or Dry Chemical Extinguisher.
Fire Fighting Procedure	Do not blow away developer powder. Drain water off around and decrease the atmosphere temperature to extinguish the fire.

Section 6. Accidental Release Measures

Personal Precautions	Avoid inhalation, ingestion, eye and skin contact in case of accidental developer release.
Environmental Precautions	No special precaution.
Method for Cleaning Up	Gather the released developer not to blowing away and wipe up with a wet cloth.

Section 7. Handling and Storage

Handling	Avoid inhalation, ingestion, skin or eye contact. Keep the developer unit tightly closed. Keep away from children.
Storage	Store in a cool, dry and dark place keeping away from fire. Keep the developer unit tightly closed. Keep away from children.

Section 8. Exposure Controls/Personal Protection

Control Parameters<Reference Data>

ACGIH TLV(2008)-TWA	Inhalable fraction 10mg/m ³ , Respirable fraction 3mg/m ³
OSHA PEL(2006)-TWA	Total dust 15mg/m ³ , Respirable fraction 5mg/m ³

Protective Equipment

Respiratory Protection	None required under normal use.
Eye/Face Protection	None required under normal use.
Skin/Hand/Body Protection	None required under normal use.

Ventilation	Ventilator not required under normal use.
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Section 9. Physical and Chemical Properties

Appearance

Physical state	Solid
Form	Fine powder
Color	Magenta
Odor	Odorless

pH N.A.

Melting Point 115°C

Explosion Properties Dust explosion is improbable under normal use. Experimental explosiveness of toner is classified into the same rank such kind of powder as flour, dry milk and resin powder according to the pressure rising speed.

Density 3.5-5.0g/cm³

Solubility Almost insoluble in water.

Section 10. Stability and Reactivity

Stability/Reactivity Stable under normal use.
Hazardous Decomposition Products None

Section 11. Toxicological Information

Acute oral toxicity No data available.
Acute dermal toxicity No data available.
Acute inhalation toxicity No data available.
Acute eye irritation No data available.
Acute skin irritation No data available.
Skin sensitization No data available.
Mutagenicity Ames Test is Negative.[Toner]
 Ames Test is Negative.[Carrier]
 (Estimated from the data of constituent materials.)
Reproductive Toxicity No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and EU Directive(67/548/EEC).
Carcinogenicity No carcinogen or potential carcinogen according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK, California Proposition 65, TRGS905 and EU Directive (67/548/EEC).
Chronic effects In a study in rats by 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 animal 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.
Other Information None

Section 12. Ecological Information

No data available

Section 13. Disposal Considerations

Do not incinerate developer and developer unit. Dangerous sparks may cause burn. Any disposal practice should be done under conditions which meet local, state and federal laws and regulations relating to waste (contact local or state environmental agency for specific rules).

Section 14. Transport Information

UN No. None
UN Shipping Name None
UN Classification None
UN Packing Group None
Special Precautions None

Section 15. Regulatory Information

EU Information

Label information according to the Directives 67/548/EEC and 1999/45/EEC

Symbol and Indication	Not required
R-Phrase	Not required
S-Phrase	Not required
Special Markings	Not required
Hazardous ingredients for labeling	None

US Information

All components in this product comply with order under TSCA.

Canada Information

This product is not a WHMIS-controlled product, since we consider it as a Manufactured article.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.

Abbreviation

OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
ACGIH	American Conference of Governmental Industrial Hygienists
TLV	Threshold Limit Value
TWA	Time Weighted Average
MAK	Maximale Arbeitsplatzkonzentrationen unter Deutsche Forschungsgemeinschaft
TRGS	Technische Regeln für Gefahrstoffe (Deutsche)
IARC	International Agency for Research on Cancer
EPA	Environmental Protection Agency (USA)
NTP	National Toxicology Program
ILO	International Labour Office
UN	United Nations
TSCA	Toxic Substances Control Act (USA)
WHMIS	Workplace Hazardous Materials Information System (Canada)

End of MSDS

Section 1. Chemical Product and Company Identification

Product Name **Yellow Developer For FS-C8100DN**
Manufacturer Kyocera Mita Corporation
Address Kyocera Mita America, Inc.
 225 Sand Road
 Fairfield, NJ 07004
Telephone Number (973)-808-8444
Date April 27, 2010

Section 2. Composition/Information on Ingredients

Hazardous Components (Chemical Identity, Common Name/s)	OSHA PEL Subpart Z	ACGIH TLV	IARC	NTP	Weight%
(CAS No. 66402-68-4) Ferrite (Ferrite including manganese)	5mg/m ³ (Ceiling) Manganese compounds (asMn)	0.2mg/m ³ (TWA) (Manganese and inorganic compounds as Mn)	Not Listed	Not Listed	85-95 (as Mn:15-20)
(Non Hazardous Ingredients)					
Polyester resin					5-10

Section 3. Hazards Identification

Most Important Hazards None
Specific Hazards None
Other Information on Hazards: Potential Health Effects

Ingestion Ingestion is not applicable route of entry for intended use.
Inhalation Prolonged inhalation of excessive dusts may cause lung damage.
 Use of this product, as intended, does not result in inhalation of excessive dusts.
Eye Contact May cause eye irritation.
Skin Contact Unlikely to cause skin irritation.

Section 4. First Aid Measures

Inhalation Remove from exposure to fresh air and gargle with plenty of water. Seek medical treatment in case of such a symptom as coughing.
Skin Contact Wash with soap and water.
Eye Contact Flush with water immediately and seek medical treatment if irritating.
Ingestion Rinse out mouth. Dilute stomach contents with several glasses of water and seek medical treatment if necessary.

Section 5. Fire Fighting Measures

Extinguishing Media	Water (Sprinkle with water), Foam, Powder, CO ₂ or Dry Chemical Extinguisher.
Fire Fighting Procedure	Do not blow away developer powder. Drain water off around and decrease the atmosphere temperature to extinguish the fire.

Section 6. Accidental Release Measures

Personal Precautions	Avoid inhalation, ingestion, eye and skin contact in case of accidental developer release.
Environmental Precautions	No special precaution.
Method for Cleaning Up	Gather the released developer not to blowing away and wipe up with a wet cloth.

Section 7. Handling and Storage

Handling	Avoid inhalation, ingestion, skin or eye contact. Keep the developer unit tightly closed. Keep away from children.
Storage	Store in a cool, dry and dark place keeping away from fire. Keep the developer unit tightly closed. Keep away from children.

Section 8. Exposure Controls/Personal Protection

Control Parameters<Reference Data>

ACGIH TLV(2008)-TWA	Inhalable fraction 10mg/m ³ , Respirable fraction 3mg/m ³
OSHA PEL(2006)-TWA	Total dust 15mg/m ³ , Respirable fraction 5mg/m ³

Protective Equipment

Respiratory Protection	None required under normal use.
Eye/Face Protection	None required under normal use.
Skin/Hand/Body Protection	None required under normal use.

Ventilation	Ventilator not required under normal use.
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Section 9. Physical and Chemical Properties

Appearance
Physical state
Form
Color
Odor

Solid
Fine powder
Yellow
Odorless

pH N.A.

Melting Point 115°C

Explosion Properties Dust explosion is improbable under normal use. Experimental explosiveness of toner is classified into the same rank such kind of powder as flour, dry milk and resin powder according to the pressure rising speed.

Density 3.5-5.0g/cm³

Solubility Almost insoluble in water.

Section 10. Stability and Reactivity

Stability/Reactivity Stable under normal use.
Hazardous Decomposition Products None

Section 11. Toxicological Information

Acute oral toxicity No data available.
Acute dermal toxicity No data available.
Acute inhalation toxicity No data available.
Acute eye irritation No data available.
Acute skin irritation No data available.
Skin sensitization No data available.
Mutagenicity Ames Test is Negative.[Toner]
 Ames Test is Negative.[Carrier]
 (Estimated from the data of constituent material)
Reproductive Toxicity No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and EU Directive(67/548/EEC).
Carcinogenicity No carcinogen or potential carcinogen according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK, California Proposition 65, TRGS905 and EU Directive (67/548/EEC).
Chronic effects In a study in rats by 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 animal 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.
Other Information None

Section 12. Ecological Information

No data available

Section 13. Disposal Considerations

Do not incinerate developer and developer unit. Dangerous sparks may cause burn. Any disposal practice should be done under conditions which meet local, state and federal laws and regulations relating to waste (contact local or state environmental agency for specific rules).

Section 14. Transport Information

UN No. None
UN Shipping Name None
UN Classification None
UN Packing Group None
Special Precautions None

Section 15. Regulatory Information

EU Information

Label information according to the Directives 67/548/EEC and 1999/45/EEC

Symbol and Indication	Not required
R-Phrase	Not required
S-Phrase	Not required
Special Markings	Not required
Hazardous ingredients for labeling	None

US Information

All components in this product comply with order under TSCA.

Canada Information

This product is not a WHMIS-controlled product, since we consider it as a Manufactured article.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.

Abbreviation

OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
ACGIH	American Conference of Governmental Industrial Hygienists
TLV	Threshold Limit Value
TWA	Time Weighted Average
MAK	Maximale Arbeitsplatzkonzentrationen unter Deutsche Forschungsgemeinschaft
TRGS	Technische Regeln für Gefahrstoffe (Deutsche)
IARC	International Agency for Research on Cancer
EPA	Environmental Protection Agency (USA)
NTP	National Toxicology Program
ILO	International Labour Office
UN	United Nations
TSCA	Toxic Substances Control Act (USA)
WHMIS	Workplace Hazardous Materials Information System (Canada)

 End of MSDS
