MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name	**Black Toner For CS-C850/D**
Manufacturer	Kyocera Mita Corporation
Address	**COPYSTAR, A DIVISION OF** Kyocera Mita America, Inc. 225 Sand Road Fairfield, NJ 07004
Telephone Number	(973)-808-8444
Date	December 28, 2011

Section 2. Composition/Information on Ingredients

Hazardous Components (Chemical Identity, Common Name/s)		OSHA PEL SubpartZ	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. 13463-67-7)	Titanium dioxide	15mg/m^3 (Total dust)(TWA)	10mg/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						80-90
Styrene acrylate copolymer						5-10

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 transient 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. If irritation does occur, seek medical treatment.
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	Do not release into drains and surface water.
Method for Cleaning Up	Gather the released toner, do not blow away. Wipe up with a wet cloth.

Section 7. Handling and Storage

Handling	Avoid inhalation, ingestion, skin or eye contact. Keep away from children. Keep 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 $TLV_{(2)}$-TWA	Inhalable fraction $10mg/m^3$, Respirable fraction $3mg/m^3$
OSHA $PEL_{(3)}$-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.
Hand Protection	None required under normal use.
Skin/Body Protection	None required under normal use.

Ventilation	Ventilator not required under normal use.

Section 9. Physical and Chemical Properties

Appearance	
Physical state	Solid
Form	Fine powder
Color	Black
Odor	Odorless
pH	Not applicable
Melting Point	115^0 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 pressure rising speed.
Density	$1.2\text{-}1.4g/cm^3$
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.
Information of Ingredients:	No mutagen, according to MAK, TRGS905 and (EC)No 1272/2008 Annex VI Table 3.2.

Reproductive Toxicity

Information of Ingredients:	No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and (EC)No 1272/2008 AnnexVI Table3.2.

Carcinogenicity

Information of Ingredients:	No carcinogen or potential carcinogen (except carbon black and titanium dioxide) according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, MAK, California Proposition 65, TRGS 905, and (EC)No 1272/2008 AnnexVI Table3.2.

The IARC reevaluated carbon black and titanium dioxide as a Group 2B carcinogen (possibly carcinogenic to humans) as the result of inhalation exposure test in rats. But, oral/skin test does not show carcinogenicity.(4) The evaluation of carbon black 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. The studies performed in animal models other than rats have not demonstrated an association between carbon black and lung tumors. Moreover, a two-years cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats.(1)
In the animal chronic inhalation studies for titanium dioxide, the lung tumor was observed in only rats. It is estimated that this is attributed to the overload of rat's lung clearance mechanism (overload phenomenon).(5) The inhalation of excessive titanium dioxide does not occur in normal use of this product. Also, epidemiological studies to date have not revealed any evidence of the relation between occupational exposure to titanium dioxide and respiratory tract diseases.

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/m^3) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m^3) exposure group.(1) But no pulmonary change was reported in the lowest (1mg/m^3) 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 that 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.

<Reference>

(1) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats H. Muhle et. al Fundamental and Applied Toxicology 17.280-299(1991)
Lung Clearance and Retention of Toner, Utilizing a Tracer Technique, during Chronic Inhalation Exposure in Rats B Bellmann Fundamental and Applied Toxicology 17.300-313(1
(2) ACGIH TLV (Threshold Limit Values)
(3) OSHA PEL (Permissible Exposure Limits)
(4) IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol.93.
(5) NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide DRAFT".
*ISO 11014-1 Safety data sheet for chemical products.

<Abbreviation>

ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration
TWA	Time Weighted Average
IARC	International Agency for Research on Cancer
EPA	Environmental Protection Agency (USA)
NTP	National Toxicology Program
MAK	Maximale Arbeitsplatzkonzentrationen under Deutsche Forschungsgemeinschaft
Proposition 65	California Safe Drinking Water and Toxic Enforcement Act of 1986.
TRGS905	Technische Regeln für Gefahrstoffe (Deutsche)
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	**Cyan Toner For CS-C850/D, CS-C4008**
Manufacturer	Kyocera Mita Corporation
Address	**COPYSTAR, A DIVISION OF** Kyocera Mita America, Inc. 225 Sand Road Fairfield, NJ 07004
Telephone Number	(973)-808-8444
Date	December 28, 2011

Section 2. Composition/Information on Ingredients

Hazardous Components (Chemical Identity, Common Name/s)	OSHA PEL SubpartZ	ACGIH TLV	IARC	NTP	Weight%
(CAS No. 13463-67-7) Titanium dioxide	15mg/m3 (Total Dust) (TWA)	10mg/m^3(TWA)	Group 2B	Not Listed	<1
(Non Hazardous Ingredients)					
Polyester resin					80-90
Organic pigment					1-5
Styrene acrylate copolymer					1-5
Wax					1-5

Section 3. Hazards Identification

Most Important Hazards None

Specific Hazards None

Potential Heath 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 transient 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	Do not release into drains and surface water.
Method for Cleaning Up	Gather the released toner, do not blow away. 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 $TLV_{(2)}$-TWA	Inhalable fraction $10mg/m^3$, Respirable fraction $3mg/m^3$
OSHA $PEL_{(3)}$-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.
Hand Protection	None required under normal use.
Skin/Body Protection	None required under normal use.
Ventilation	Ventilator not required under normal use.

Section 9. Physical and Chemical Properties

Appearance	
Physical state	Solid
Form	Fine powder
Color	Cyan
Odor	Odorless
pH	Not applicable
Melting Point	115^0 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 pressure rising speed.
Density	$1.2\text{-}1.4g/cm^3$
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.
Information of Ingredients	No mutagen, according to MAK, TRGS905 and (EC)No.1272/2008 Annex VI Table 3.2.
Reproductive Toxicity	
Information of Ingredients	No reproductive toxicant, according to MAK, CA Proposition 65, TRGS 905 and (EC)No. 1272/2008 Annex VI Table3.2.
Carcinogenicity	
Information of Ingredients	No carcinogen or potential carcinogen (except titanium dioxide), according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, MAK CA Proposition 65, TRGS 905 and (EC)No. 1272/2008 Annex VI Table3.2.

The IARC reevaluated titanium dioxide as a Group 2B carcinogen (possibly carcinogenic to humans) as the result of inhalation exposure test in rats. But, oral/skin test does not show carcinogenicity.(4) In the animal chronic inhalation studies for titanium dioxide, the lung tumor was observed in only rats. It is estimated that this is attributed to the overload of rat's lung clearance mechanism (overload phenomenon).(5)
The inhalation of excessive titanium dioxide does not occur in normal use of this product. Also, epidemiological studies to date have not revealed any evidence of the relation between occupational exposure to titanium dioxide and respiratory tract diseases.

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/m^3) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m^3) exposure group.(1) But no pulmonary change was reported in the lowest (1mg/m^3) 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 your 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/EC

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.

<Reference>

(1) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats H. Muhle et. al Fundamental and Applied Toxicology 17.280-299(1991)
Lung Clearance and Retention of Toner, Utilizing a Tracer Technique, during Chronic Inhalation Exposure in Rats B Bellmann Fundamental and Applied Toxicology 17.300-313
(2) ACGIH TLV (Threshold Limit Values)
(3) OSHA PEL (Permissible Exposure Limits)
(4) IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol.93.
(5) NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide DRAFT".
*ISO 11014-1 Safety data sheet for chemical products.

<Abbreviation>

ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration
TWA	Time Weighted Average
IARC	International Agency for Research on Cancer
EPA	Environmental Protection Agency (USA)
NTP	National Toxicology Program
MAK	Maximale Arbeitsplatzkonzentrationen under Deutsche Forschungsgemeinschaft
Proposition 65	California Safe Drinking Water and Toxic Enforcement Act of 1986.
TRGS905	Technische Regeln für Gefahrstoffe (Deutsche)
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 CS-C850/D, CS-C4008**
Manufacturer	Kyocera Mita Corporation
Address	**COPYSTAR, A DIVISION OF** Kyocera Mita America, Inc. 225 Sand Road Fairfield, NJ 07004
Telephone Number	(973)-808-8444
Date	December 28, 2011

Section 2. Composition/Information on Ingredients

Hazardous Components (Chemical Identity, Common Name/s)	OSHA PEL SubpartZ	ACGIH TLV	IARC	NTP	Weight%
(CAS No. 13463-67-7) Titanium dioxide	15mg/m^3 (Total Dust) (TWA)	10mg/m^3(TWA)	Group 2B	Not Listed	<1
(Non Hazardous Ingredients)					
Polyester resin					80-90
Organic pigment					1-5
Styrene acrylate copolymer					1-5
Wax					1-5

Section 3. Hazards Identification

Most Important Hazards None

Specific Hazards None

Potential Heath 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 transient 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	Do not release into drains and surface water.
Method for Cleaning Up	Gather the released toner, do not blow away. Wipe up with a wet cloth.

Section 7. Handling and Storage

Handling	Avoid inhalation, ingestion, skin or eye contact. Keep away from children. Keep 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 $TLV_{(2)}$-TWA	Inhalable fraction $10mg/m^3$, Respirable fraction $3mg/m^3$
OSHA $PEL_{(3)}$-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.
Hand Protection	None required under normal use.
Skin/Body Protection	None required under normal use.

Ventilation — Ventilator not required under normal use.

Section 9. Physical and Chemical Properties

Appearance	
Physical state	Solid
Form	Fine powder
Color	Magenta
Odor	Odorless
pH	Not applicable
Melting Point	115^0 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 pressure rising speed.
Density	$1.2\text{-}1.4g/cm^3$
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.
Information of Ingredients	No mutagen, according to MAK, TRGS905 and (EC) No. 1272/2008 Annex VI Table 3.2.
Reproductive Toxicity	
Information of Ingredients	No reproductive toxicant, according to MAK, CA Proposition 65, TRGS 905 and (EC)No. 1272/2008 Annex VI Table3.2.
Carcinogenicity	
Information of Ingredients	No carcinogen or potential carcinogen (except titanium dioxide), according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, MAK CA Proposition 65, TRGS 905 and (EC)No. 1272/2008 Annex VI Table3.2.

The IARC reevaluated titanium dioxide as a Group 2B carcinogen (possibly carcinogenic to humans) as the result of inhalation exposure test in rats. But, oral/skin test does not show carcinogenicity.(4) In the animal chronic inhalation studies for titanium dioxide, the lung tumor was observed in only rats. It is estimated that this is attributed to the overload of rat's lung clearance mechanism (overload phenomenon).(5) The inhalation of excessive titanium dioxide does not occur in normal use of this product. Also, epidemiological studies to date have not revealed any evidence of the relation between occupational exposure to titanium dioxide and respiratory tract diseases.

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/m^3) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m^3) exposure group.(1) But no pulmonary change was reported in the lowest (1mg/m^3) 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.

<Reference>
(1) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats H. Muhle et. al Fundamental and Applied Toxicology 17.280-299(1991)
Lung Clearance and Retention of Toner, Utilizing a Tracer Technique, during Chronic Inhalation Exposure in Rats B Bellmann Fundamental and Applied Toxicology 17.300-313(199
(2) ACGIH TLV (Threshold Limit Values)
(3) OSHA PEL (Permissible Exposure Limits)
(4) IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol.93.
(5) NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide DRAFT".
*ISO 11014-1 Safety data sheet for chemical products.

<Abbreviation>

ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration
TWA	Time Weighted Average
IARC	International Agency for Research on Cancer
EPA	Environmental Protection Agency (USA)
NTP	National Toxicology Program
MAK	Maximale Arbeitsplatzkonzentrationen under Deutsche Forschungsgemeinschaft
Proposition 65	California Safe Drinking Water and Toxic Enforcement Act of 1986.
TRGS905	Technische Regeln für Gefahrstoffe (Deutsche)
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 CS-C850/D, CS-C4008**
Manufacturer	Kyocera Mita Corporation
Address	**COPYSTAR, A DIVISION OF** Kyocera Mita America, Inc. 225 Sand Road Fairfield, NJ 07004
Telephone Number	(973)-808-8444
Date	December 28, 2011

Section 2. Composition/Information on Ingredients

Hazardous Components (Chemical Identity, Common Name/s)	OSHA PEL SubpartZ	ACGIH TLV	IARC	NTP	Weight%
(CAS No. 13463-67-7) Titanium dioxide	$15mg/m^3$ (Total Dust) (TWA)	$10mg/m^3$(TWA)	Group 2B	Not Listed	<1
(Non Hazardous Ingredients)					
Polyester resin					80-90
Organic pigment					1-5
Styrene acrylate copolymer					1-5
Wax					1-5

Section 3. Hazards Identification

Most Important Hazards None

Specific Hazards None

Potential Heath 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 transient 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	Do not release into drains and surface water.
Method for Cleaning Up	Gather the released toner, do not blow away. 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 containe tightly closed. Keep away from children.

Section 8. Exposure Controls/Personal Protection

Control Parameters<Reference Data>:

ACGIH $TLV_{(2)}$-TWA	Inhalable fraction $10mg/m^3$, Respirable fraction $3mg/m^3$
OSHA $PEL_{(3)}$-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.
Hand Protection	None required under normal use.
Skin/Body Protection	None required under normal use.

Ventilation — Ventilator not required under normal use.

Section 9. Physical and Chemical Properties

Appearance	
Physical state	Solid
Form	Fine powder
Color	Yellow
Odor	Odorless
pH	Not applicable
Melting Point	115^0 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 pressure rising speed.
Density	$1.2\text{-}1.4g/cm^3$
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.
Information of Ingredients	No mutagen, according to MAK, TRGS905 and (EC) No. 1272/2008 Annex VI Table 3.2.

Reproductive Toxicity

Information of Ingredients	No reproductive toxicant, according to MAK, CA Proposition 65, TRGS 905 and (EC)No. 1272/2008 Annex VI Table3.2.

Carcinogenicity

Information of Ingredients	No carcinogen or potential carcinogen (except titanium dioxide), according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, MAK CA Proposition 65, TRGS 905 and (EC)No. 1272/2008 Annex VI Table3.2.

The IARC reevaluated titanium dioxide as a Group 2B carcinogen (possibly carcinogenic to humans) as the result of inhalation exposure test in rats. But, oral/skin test does not show carcinogenicity.(4) In the animal chronic inhalation studies for titanium dioxide, the lung tumor was observed in only rats. It is estimated that this is attributed to the overload of rat's lung clearance mechanism (overload phenomenon).(5) The inhalation of excessive titanium dioxide does not occur in normal use of this product. Also, epidemiological studies to date have not revealed any evidence of the relation between occupational exposure to titanium dioxide and respiratory tract diseases.

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/m^3) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m^3) exposure group.(1) But no pulmonary change was reported in the lowest (1mg/m^3) 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/EC

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.

<Reference>
(1) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats H. Muhle et. al Fundamental and Applied Toxicology 17.280-299(1991)
Lung Clearance and Retention of Toner, Utilizing a Tracer Technique, during Chronic Inhalation Exposure in Rats B Bellmann Fundamental and Applied Toxicology 17.300-313(199
(2) ACGIH TLV (Threshold Limit Values)
(3) OSHA PEL (Permissible Exposure Limits)
(4) IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol.93.
(5) NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide DRAFT".
*ISO 11014-1 Safety data sheet for chemical products.

<Abbreviation>

ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration
TWA	Time Weighted Average
IARC	International Agency for Research on Cancer
EPA	Environmental Protection Agency (USA)
NTP	National Toxicology Program
MAK	Maximale Arbeitsplatzkonzentrationen under Deutsche Forschungsgemeinschaft
Proposition 65	California Safe Drinking Water and Toxic Enforcement Act of 1986.
TRGS905	Technische Regeln für Gefahrstoffe (Deutsche)
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	**Black Developer For CS-C850/D**
Manufacturer	Kyocera Mita Corporation
Address	Kyocera Mita America, Inc. 225 Sand Road Fairfield, NJ 07004
Telephone Number	(973)-808-8444
Date	December 28, 2011

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	>90 (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					1-5

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. If irritation does occur, seek medical treatment.
Eye Contact	Flush thoroughly with water and seek medical treatment if irritating.
Ingestion	Ingestion is not applicable route of entry for intended use. Rinse out mouth. Drink one or two glasses of water to dilute. Seek medical treatment if necessary.

Section 5. Fire Fighting Measures

Extinguishing Media	Water(Sprinkle with water), Foam, Powder, $C0_2$ 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, do not blow away. Wipe up with a wet cloth.

Section 7. Handling and Storage

Handling	Avoid inhalation, ingestion, skin or eye contact. Keep away from children. Keep developer unit tightly closed.
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.
Hand Protection	None required under normal use.
Skin/Body Protection	None required under normal use.

Ventilation	Ventilator not required under normal use.

Section 9. Physical and Chemical Properties

Appearance	
Physical state	Solid
Form	Fine powder
Color	Black
Odor	Odorless
pH	N.A.
Melting Point	N.A.
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 pressure rising speed.
Density	3.5-5.0g/cm^3
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 (16mg/m^3) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m^3) exposure group. But no pulmonary change was reported in the lowest (1mg/m^3) exposure group, the most relevant level to potential human exposures.

Others None

Section 12. Ecological Information

No data available.

Section 13. Disposal Considerations

Do not incinerate containers. Dangerous sparks may cause burn.

Any disposal practice should be done under conditions which meet local, state and federal laws and regulations related 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.

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End of MSDS

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MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name	**Cyan Developer For CS-C850/D, CS-C4008**
Manufacturer	Kyocera Mita Corporation
Address	Kyocera Mita America, Inc. 225 Sand Road Fairfield, NJ 07004
Telephone Number	(973)-808-8444
Date	December 28, 2011

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	>90 (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. If irritation does occur, seek medical treatment.
Eye Contact	Flush thoroughly with water and seek medical treatment if irritating.
Ingestion	Ingestion is not applicable route of entry for intended use. Rinse out mouth. Drink one or two glasses of water to dilute. Seek medical treatment if necessary.

Section 5. Fire Fighting Measures

Extinguishing Media	Water(Sprinkle with water), Foam, Powder, $C0_2$ 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, do not blow away. Wipe up with a wet cloth.

Section 7. Handling and Storage

Handling	Avoid inhalation, ingestion, skin or eye contact. Keep away from children. Keep developer unit tightly closed.
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.
Hand Protection	None required under normal use.
Skin/Body Protection	None required under normal use.

Ventilation — Ventilator not required under normal use.

Section 9. Physical and Chemical Properties

Appearance	
Physical state	Solid
Form	Fine powder
Color	Cyan
Odor	Odorless
pH	N.A.
Melting Point	N.A.
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 pressure rising speed.
Density	3.5-5.0g/cm^3
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 rates 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/m^3) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m^3) exposure group. But no pulmonary change was reported in the lowest (1mg/m^3) 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 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	MAK(Maximale Arbeitsplatzkonzentrationen) under Deutsche Forschungsgemeinschaft
TRGS	Technische Regein für Gefahrstoffe(Deutsche)
IARC	International Agency for Research on Cancer
EPA	Environmental Protection Agency (USA)
NTP	National Toxicology Program
ILO	International Labor Office
UN	Nnited 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 Developer For CS-C850/D, CS-C4008**
Manufacturer	Kyocera Mita Corporation
Address	Kyocera Mita America, Inc. 225 Sand Road Fairfield, NJ 07004
Telephone Number	(973)-808-8444
Date	December 28, 2011

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	>90 (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. If irritation does occur, seek medical treatment.
Eye Contact	Flush thoroughly with water and seek medical treatment if irritating.
Ingestion	Ingestion is not applicable route of entry for intended use. Rinse out mouth. Drink one or two glasses of water to dilute. Seek medical treatment if necessary.

Section 5. Fire Fighting Measures

Extinguishing Media	Water(Sprinkle with water), Foam, Powder, $C0_2$ 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, do not blow away. Wipe up with a wet cloth.

Section 7. Handling and Storage

Handling	Avoid inhalation, ingestion, skin or eye contact. Keep away from children. Keep developer unit tightly closed.
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.
Hand Protection	None required under normal use.
Skin/Body Protection	None required under normal use.

Ventilation — Ventilator not required under normal use.

Section 9. Physical and Chemical Properties

Appearance	
Physical state	Solid
Form	Fine powder
Color	Magenta
Odor	Odorless
pH	N.A.
Melting Point	N.A.
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 pressure rising speed.
Density	3.5-5.0g/cm^3
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 rates 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/m^3) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m^3) exposure group. But no pulmonary change was reported in the lowest (1mg/m^3) 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 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	MAK(Maximale Arbeitsplatzkonzentrationen) under Deutsche Forschungsgemeinschaft
TRGS	Technische Regein für Gefahrstoffe(Deutsche)
IARC	International Agency for Research on Cancer
EPA	Environmental Protection Agency (USA)
NTP	National Toxicology Program
ILO	International Labor Office
UN	Nnited 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 Developer For CS-C850/D, CS-C4008**
Manufacturer	Kyocera Mita Corporation
Address	Kyocera Mita America, Inc. 225 Sand Road Fairfield, NJ 07004
Telephone Number	(973)-808-8444
Date	December 28, 2011

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	>90 (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. If irritation does occur, seek medical treatment.
Eye Contact	Flush thoroughly with water and seek medical treatment if irritating.
Ingestion	Ingestion is not applicable route of entry for intended use. Rinse out mouth. Drink one or two glasses of water to dilute. Seek medical treatment if necessary.

Section 5. Fire Fighting Measures

Extinguishing Media	Water(Sprinkle with water), Foam, Powder, $C0_2$ 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, do not blow away. Wipe up with a wet cloth.

Section 7. Handling and Storage

Handling	Avoid inhalation, ingestion, skin or eye contact. Keep away from children. Keep developer unit tightly closed.
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.
Hand Protection	None required under normal use.
Skin/Body Protection	None required under normal use.

Ventilation — Ventilator not required under normal use.

Section 9. Physical and Chemical Properties

Appearance	
Physical state	Solid
Form	Fine powder
Color	Yellow
Odor	Odorless
pH	N.A.
Melting Point	N.A.
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 pressure rising speed.
Density	3.5-5.0g/cm^3
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 rates 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/m^3) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m^3) exposure group. But no pulmonary change was reported in the lowest (1mg/m^3) 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 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	MAK(Maximale Arbeitsplatzkonzentrationen) under Deutsche Forschungsgemeinschaft
TRGS	Technische Regein für Gefahrstoffe(Deutsche)
IARC	International Agency for Research on Cancer
EPA	Environmental Protection Agency (USA)
NTP	National Toxicology Program
ILO	International Labor Office
UN	Nnited Nations
TSCA	Toxic Substances Control Act(USA)
WHMIS	Workplace Hazardous Materials Information System (Canada)

End of MSDS