Section 1. Chemical Product and Company Identification

Product Name	Black Toner For FS-C5300DN, C5350DN, ECOSYS P6030cdn
Manufacturer	KYOCERA Document Solutions Inc.
Address	KYOCERA Document Solutions America, Inc. 225 Sand Road Fairfield, NJ 07004
Telephone Number	(973)-808-8444
Date	February 07, 2014

Section 2. Composition/Information on Ingredients

Hazardous Components		OSHA PEL				
(Chemical Identity, Common Name/s)		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	5-10
(CAS No. 7631-86-9)	Amorphous Silica	80mg/m ³ /%SiO ₂ (TWA)	Not Listed	Group3	Not Listed	1-5
(CAS No. 13463-67-7)	Titanium dioxide	15mg/m ³ (TWA)	10mg/m ³ (TWA)	Group2B	Not Listed	<1
(Non Hazardous Ingredients)						
Polyester resin						70-80
Styrene acrylate copolymer						1-5

Section 3. Hazards Identification

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

InhalationRemove from exposure to fresh air and gargle with plenty of water. Seek medical treatment in case of such a symptom
as coughing.Skin ContactWash with soap and water.Eye ContactFlush with water immediately and seek medical treatment if irritating.IngestionRinse 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 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/Skin/Body Protection	None required under normal use.
Ventilation	Ventilator is not required under normal use.

Section 9. Physical and Chemical Properties

Appearance	
Physical state	Solid
Form	Fine powder
Color	Black
Odor	Odorless
рН	Not applicable
Melting Point	100-120 ⁰ C
Explosive 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	1.2-1.4g/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	(rat)LD ₅₀ >2,000mg/kg (Estimated from other products containing same materials.)
Acute dermal toxicity	(rat)LD ₅₀ >2,000mg/kg (Estimated from Acute oral toxicity for same product.)
Acute inhalation toxicity	(rat)LC ₅₀ (4 hr)>5.0mg/I (Estimated from other products containing same materials.)
Acute eye irritation	(rabbit) Minimal irritant (Estimated from other products containing same materials.)
Acute skin irritation	(rabbit) Non irritant (Estimated from other products containing same materials.)
Skin sensitization	(mouse)Non-Sensitizer (Estimated from other products containing same materials.)
Mutagenicity Information of Ingredients	Ames Test is Negative. (Estimated from the data of constituent materials.) No mutagen, according to MAK, TRGS905 and (EC)No 1272/2008 AnnexVI Table 3.2.
Reproductive Toxicity Information of Ingredients	No reproductive toxicant, according to MAK, CA Proposition 65, TRGS 905 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, CA 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/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.₍₁₎ 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/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(1991)

(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	CA 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

Section 1. Chemical Product and Company Identification

Product Name	Cyan Toner For FS-C5300DN, C5350DN, ECOSYS P6030cdn
Manufacturer	KYOCERA Document Solutions Inc.
Address	KYOCERA Document Solutions America, Inc. 225 Sand Road Fairfield, NJ 07004
Telephone Number	(973)-808-8444
Date	February 07, 2014

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/m ³ /%SiO ₂ (TWA)	Not Listed	Group3	Not Listed	1-5
(CAS No. 13463-67-7) Titanium dioxide	15mg/m ³ (TWA)	10mg/m ³ (TWA)	Group2B	Not Listed	<1
(Non Hazardous Ingredients)					
Polyester resin (2 kinds)					75-85
Organic pigment					1-5

Section 3. Hazards Identification

Most Important H	lazards None
Specific Hazards	None
Other Information	n 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 transient eye irritation.
Skin Contact	Unlikely to cause skin irritation.

Section 4. First Aid Measures

InhalationRemove from exposure to fresh air and gargle with plenty of water. Seek medical treatment in case of such a symptom
as coughing.Skin ContactWash with soap and water.Eye ContactFlush with water immediately and seek medical treatment if irritating.IngestionRinse out mouth. Dilute stomach contents with several glasses of water and seek medical treatment if ncessary.

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/Skin/Body Protection	None required under normal use.
Ventilation	Ventilator is not required under normal use.

Section 9. Physical and Chemical Properties

Appearance	
Physical state	Solid
Form	Fine powder
Color	Cyan
Odor	Odorless
рН	N.A.
Melting Point	100-120 ⁰ C
Explosive 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	1.2-1.4g/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	(rat)LD ₅₀ >2,000mg/kg (Estimated from other products containing same materials.)
Acute dermal toxicity	(rat)LD ₅₀ >2,000mg/kg (Estimated from Acute oral toxicity for same product.)
Acute inhalation toxicity	(rat)LC $_{50}$ (4 hr)>4.98mg/l (This value is the maximum attainable concentration for dust.)
	(Estimated from other products containing same materials.)
Acute eye irritation	(rabbit) Minimal irritant (Estimated from other products containing same materials.)
Acute skin irritation	(rabbit) Mild irritant (Estimated from other products containing same materials.)
Skin sensitization	(mouse)Non-Sensitizer (Estimated from other products containing same materials.)
Mutagenicity	Ames Test is Negative. (Estimated from the data of constituent materials.)
Information of Ingredients	No mutagen, according to MAK, TRGS905 and (EC)No 1272/2008 AnnexVI 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,

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/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.₍₁₎ 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/EC.

Symbol and Indication	Not required
R-Phrase	Not required
S-Phrase	Not required
Special marking	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(1991)
- (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></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	CA 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)
000000000	000000000000000000000000000000000000000

End of MSDS

Section 1. Chemical Product and Company Identification

Product Name	Magenta Toner For FS-C5300DN, C5350DN, ECOSYS P6030cdn
Manufacturer	KYOCERA Document Solutions Inc.
Address	KYOCERA Document Solutions America, Inc. 225 Sand Road Fairfield, NJ 07004
Telephone Number	(973)-808-8444
Date	February 07, 2014

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/m ³ /%SiO ₂ (TWA)	Not Listed	Group3	Not Listed	1-5
(CAS No. 13463-67-7) Titanium dioxide	15mg/m ³ (TWA)	10mg/m ³ (TWA)	Group2B	Not Listed	<1
(Non Hazardous Ingredients)					
Polyester resin (2 kinds)					75-85
Organic pigment					1-5

Section 3. Hazards Identification

Most Important H	azards None
Specific Hazards	None
Other Informatior Ingestion	o on Hazards: Potential Heath Effects 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. F	irst Aid Measures

InhalationRemove from exposure to fresh air and gargle with plenty of water. Seek medical treatment in case of such a symptom
as coughing.Skin ContactWash with soap and water.Eye ContactFlush with water immediately and seek medical treatment if irritating.IngestionRinse 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 OSHA PEL₍₃₎-TWA</reference>	Inhalable fraction 10mg/m ³ , Respirable fraction 3mg/m ³ Total dust 15mg/m ³ , Respirable fraction 5mg/m ³
Personal Protection Equipment(s)	
Respiratory Protection	None required under normal use.
Eye/Face Protection	None required under normal use.
Hand/Skin/Body Protection	None required under normal use.
Ventilation	Ventilator is not required under normal use.

Section 9. Physical and Chemical Properties

Appearance	
Physical state	Solid
Form	Fine powder
Color	Magenta
Odor	Odorless
рН	Not applicable
Melting Point	100-120 ⁰ C
Explosive 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	1.2-1.4g/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	(rat)LD ₅₀ >2,000mg/kg (Estimated from other products containing same materials.)
Acute dermal toxicity	(rat)LD ₅₀ >2,000mg/kg (Estimated from Acute oral toxicity for same product.)
Acute inhalation toxicity	(rat)LC ₅₀ (4 hr)>5.02mg/l (Estimated from other products containing same materials.)
Acute eye irritation	(rabbit) Minimal irritant (Estimated from other products containing same materials.)
Acute skin irritation	(rabbit) Mild irritant (Estimated from other products containing same materials.)
Skin sensitization	(mouse)Non-Sensitizer (Estimated from other products containing same materials.)
Mutagenicity Information of Ingredients	Ames Test is Negative. (Estimated from the data of constituent materials.) No mutagen, according to MAK, TRGS905 and (EC)No 1272/2008 AnnexVI 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 AnnexVI 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/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.₍₁₎ 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/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>

- (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	CA 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

⁽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(1991)

Section 1. Chemical Product and Company Identification

Product Name	Yellow Toner For FS-C5300DN, C5350DN, ECOSYS P6030cdn
Manufacturer	KYOCERA Document Solutions Inc.
Address	KYOCERA Document Solutions America, Inc. 225 Sand Road Fairfield, NJ 07004
Telephone Number	(973)-808-8444
Date	February 07, 2014

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/m ³ /%SiO ₂ (TWA)	Not Listed	Group3	Not Listed	1-5
(CAS No. 13463-67-7) Titanium dioxide	15mg/m ³ (TWA)	10mg/m ³ (TWA)	Group2B	Not Listed	<1
(Non Hazardous Ingredients)					
Polyester resin (2 kinds)					75-85
Organic pigment					1-5

Section 3. Hazards Identification

Most Important I	lazards None
Specific Hazards	None
Other Informatio Ingestion	n on Hazards: Potential Heath Effects 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. F	irst Aid Measures

InhalationRemove from exposure to fresh air and gargle with plenty of water. Seek medical treatment in case of such a symptom
as coughing.Skin ContactWash with soap and water.Eye ContactFlush with water immediately and seek medical treatment if irritating.IngestionRinse 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</reference>	Inhalable fraction 10mg/m ³ , Respirable fraction 3mg/m ³
OSHA PEL ₍₃₎ -TWA	Total dust 15mg/m³, Respirable fraction 5mg/m³
Personal Protection Equipment(s)	
Respiratory Protection	None required under normal use.
Eye/Face Protection	None required under normal use.
Hand/Skin/Body Protection	None required under normal use.
Ventilation	Ventilator is not required under normal use.

Section 9. Physical and Chemical Properties

Appearance	
Physical state	Solid
Form	Fine powder
Color	Yellow
Odor	Odorless
рН	Not applicable
Melting Point	100-120 ⁰ C
Explosive 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	1.2-1.4g/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	(rat)LD ₅₀ >2,000mg/kg (Estimated from other products containing same materials.)
Acute dermal toxicity	(rat)LD ₅₀ >2,000mg/kg (Estimated from Acute oral toxicity for same product.)
Acute inhalation toxicity	(rat)LC ₅₀ (4 hr)>5.02mg/I (Estimated from other products containing same materials.)
Acute eye irritation	(rabbit) Minimal irritant (Estimated from other products containing same materials.)
Acute skin irritation	(rabbit) Mild irritant (Estimated from other products containing same materials.)
Skin sensitization	(mouse)Non-Sensitizer (Estimated from other products containing same materials.)
Mutagenicity	Ames Test is Negative.
Mutagenicity Information of Ingredients	Ames Test is Negative. No mutagen, according to MAK, TRGS905 and (EC)No 1272/2008 AnnexVI Table 3.2.
U	с. С
Information of Ingredients	с. С
Information of Ingredients Reproductive Toxicity	No mutagen, according to MAK, TRGS905 and (EC)No 1272/2008 AnnexVI Table 3.2.
Information of Ingredients Reproductive Toxicity	No mutagen, according to MAK, TRGS905 and (EC)No 1272/2008 AnnexVI Table 3.2. No reproductive toxicant, according to MAK, CA Proposition 65, TRGS 905 and
Information of Ingredients Reproductive Toxicity Information of Ingredients	No mutagen, according to MAK, TRGS905 and (EC)No 1272/2008 AnnexVI Table 3.2. No reproductive toxicant, according to MAK, CA Proposition 65, TRGS 905 and
Information of Ingredients Reproductive Toxicity Information of Ingredients Carcinogenicity	No mutagen, according to MAK, TRGS905 and (EC)No 1272/2008 AnnexVI Table 3.2. No reproductive toxicant, according to 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 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(1991)
(2) ACGH TLV (Threshold Limit Values)

- OSHA PEL (Permissible Exposure Limits) IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol.93. NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide DRAFT". (5) NIOSH CURRENT IN LELLIGENCE DOLLE THE *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	CA 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

Section 1. Chemical Product and Company Identification

Product Name	Black Developer For FS-C5100DN, FS-C5200DN, FS-C5300DN, FS-C5350DN, ECOSYS P6030cdn
Manufacturer	KYOCERA Document Solutions Inc.
Address	KYOCERA Document Solutions America, Inc. 225 Sand Road Fairfield, NJ 07004
Telephone Number	(973)-808-8444
Date	February 07, 2014

Section 2. Composition/Information on Ingredients

Hazardous Components		OSHA PEL				
(Chemical Identity, Common Name/s)		SubpartZ	ACGIH TLV	IARC	NTP	Weight%
(CAS No. 66402-68-4)	Ferrite(including manganese)	5mg/m ³ (TWA) [*]	0.2mg/m ³ (TWA)**	Not Listed	Not Listed	85-95***
(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

*(Manganese compounds (as Mn))

**(Manganese and inorganic compounds, as Mn)

*** (as Mn:15-20)

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 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	Do not rub eyes. Flush thoroughly with water and seek medical treatment.
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, CO_2 or Dry Chemical Extinguisher.
Fire Fighting Procedure	Pay attention not to blow away developer powder. Drain water off around and decrease 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 blowing away, and wipe up with a wet cloth.

Section 7. Handling and Storage

Handling	Keep the container tightly closed. Keep away from children.
Storage	Keep the container tightly closed and store in a cool, dry and dark place keeping away from fire. 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.
Skin/Hand/Body Protection	None required under normal use.
Ventilation	Ventilator is not required under normal use.

Section 9. Physical and Chemical Properties

Appearance	
Physical state	Solid
Form	Fine powder
Color	Black
Odor	Odorless
рН	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 the pressure rising speed.
Density	3.5-5.0 g/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	(rat)LD ₅₀ >2,000mg/kg (Estimated from other products containing same materials.)[Toner] (rat)LD ₅₀ >2,000mg/kg (Estimated from other products containing same materials.) [Carrier]
Acute dermal toxicity	(rat)LD ₅₀ >2,000mg/kg (Estimated from Acute oral toxicity for same product.) [Toner] (rat)LD ₅₀ >2,000mg/kg (Estimated from Acute oral toxicity for same product.) [Carrier]
Acute inhalation toxicity	(rat)LC $_{50}$ (4 hr)>5.0mg/l (Estimated from other products containing same materials.) [Toner]
Acute eye irritation	(rabbit) Minimal irritant (Estimated from other products containing same materials.) [Toner]
Acute skin irritation	(rabbit) Non-irritant (Estimated from other products containing same materials.) [Toner] (rabbit) Non irritant (Estimated from other products containing same materials.) [Carrier]
Skin sensitization	(mouse)Non-Sensitizer (Estimated from other products containing same materials.) [Toner] (guinea pig)Non-Sensitizer (Estimated from other products containing same materials.) [Carrier]
Mutagenicity Information on Ingredients	Ames Test is Negative. (Estimated from the data of constituent materials.) [Toner] Ames Test is Negative. (Estimated from the data of constituent materials.) [Carrier] No mutagen, according to MAK, TRGS905 and (EC)No 1272/2008 AnnexVI Table 3.2
Reproductive Toxicity Information on Ingredients	No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and (EC)No 1272/2008 AnnexVI Table 3.2
Carcinogenicity	
Information on Ingredients	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, TRGS905 and (EC)No 1272/2008 AnnexVI Table 3.2

The IARC reevaluated carbon black 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 bioassy using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats. (1)

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[°]) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m[°]) exposure group. But no pulmonary change was reported in the lowest (1mg/m[°]) exposure group, the most relevant level to potential human exposures.

```
Other Information
```

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

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.

EU Information	Label information according to the Directives 67/548/EEC and 1999/45/EC)
Symbol & Indication	Not required
R-Phrase	Not required
S-Phrase	Not required
Special markings	Not required
Hazardous ingredients for labeling	Not required

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(1991)
- (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.
- *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
TRGS	Technische Regeln für Gefahrstoffe (Deutsche)
UN	United Nations
TSCA	Toxic Substances Control Act (USA)
WHMIS	Workplace Hazardous Materials Information System(Canada)

End of MSDS

Black Developer For FS-C5100DN,C5200DN,C5300DN,C5350DN, ECOSYS P6030cdn Page 4 of 4

Section 1. Chemical Product and Company Identification

Product Name	Cyan Developer For FS-C5100DN, FS-C5200DN, FS-C5300DN, FS-C5350DN ECOSYS P6030cdn
Manufacturer	KYOCERA Document Solutions Inc.
Address	KYOCERA Document Solutions America, Inc. 225 Sand Road Fairfield, NJ 07004
Telephone Number	(973)-808-8444
Date	February 07, 2014

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(including manganese)	5mg/m ³ (TWA) [*]	0.2mg/m ³ (TWA)**	Not Listed	Not Listed	85-95***
(Non Hazardous Ingredients)					
Polyester resin					5-10

*(Manganese compounds (as Mn))

(Manganese and inorganic compounds, as Mn) *(as Mn:15-20)

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 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	Do not rub eyes. Flush thoroughly with water and seek medical treatment.
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, CO_2 or Dry Chemical Extinguisher.
Fire Fighting Procedure	Pay attention not to blow away developer powder. Drain water off around and decrease 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	Do not release into drains and surface water.
Method for Cleaning Up	Gather the released developer, not blowing away, and wipe up with a wet cloth.

Section 7. Handling and Storage

Handling	Keep the container tightly closed. Keep away from children.
Storage	Keep the container tightly closed and store in a cool, dry an dark place keeping away from fire. 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.
Skin/Hand/Body Protection	None required under normal use.
Ventilation	Ventilator is not required under normal use.

Section 9. Physical and Chemical Properties

Appearance Physical state Form Color Odor	Solid Fine powder Cyan Odorless
рН	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 the pressure rising speed.
Density	3.5-5.0 g/cm ³
Solubility	Almost insoluble in water.

Stable under normal use.

Section 10. Stability and Reactivity

Stability/Reactivity	
Hazardous Decomposition Products	

ardous Decomposition Products None

Section 11. Toxicological Information

Acute oral toxicity	(rat)LD ₅₀ >2,000mg/kg (Estimated from other products containing same materials.)[Toner] (rat)LD ₅₀ >2,000mg/kg (Estimated from other products containing same materials.)[Carrier]
Acute dermal toxicity	(rat)LD ₅₀ >2,000mg/kg (Estimated from Acute oral toxicity for same product.)[Toner] (rat)LD ₅₀ >2,000mg/kg (Estimated from Acute oral toxicity for same product.)[Carrier]
Acute inhalation toxicity	(rat)LC ₅₀ (4 hr)>4.98mg/l (Estimated from other products containing same materials.)[Toner]
	[This value is the maximum attainable concentration for dust.]
Acute eye irritation	(rabbit) Minimal irritant (Estimated from other products containing same materials.)[Toner]
Acute skin irritation	(rabbit) Mild irritant (Estimated from other products containing same materials.) [Toner] (rabbit) Non irritant (Estimated from other products containing same materials.)[Carrier]
Skin sensitization	(mouse)Non-Sensitizer (Estimated from other products containing same materials.)[Toner] (guinea pig)Non-Sensitizer (Estimated from other products containing same materials.)[Carrier]
Mutagenicity	Ames Test is Negative. (Estimated from the data of constituent materials.) [Toner] Ames Test is Negative. (Estimated from the data of constituent materials.) [Carrier]
Information on Ingredients	No mutagen, according to MAK, TRGS905 and (EC)No 1272/2008 AnnexVI Table 3.2
Reproductive Toxicity	
Information on Ingredients	No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and (EC)No 1272/2008 AnnexVI Table 3.2
Carcinogenicity	
Information on Ingredients	No carcinogen or potential carcinogen according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK, California Proposition 65, TRGS905 and (EC)No 1272/2008 AnnexVI Table 3.2
Chronic effects	
In a study in rats by chronic inha	alation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the

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 In	nformation
----------	------------

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

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.

EU Information	Label information according to the Directives 67/548/EEC and 1999/45/EC)
Symbol & Indication	Not required
R-Phrase	Not required
S-Phrase	Not required
Special markings	Not required
Hazardous ingredients for labeling	Not required

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(1991)
- (2) ACGIH TLV (Threshold Limit Values)
- (3) OSHA PEL (Permissible Exposure Limits)

*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

Section 1. Chemical Product and Company Identification

Product Name	Magenta Developer For FS-C5100DN, FS-C5200DN, FS-C5300DN, FS-C5350DN ECOSYS P6030cdn
Manufacturer	KYOCERA Document Solutions Inc.
Address	KYOCERA Document Solutions America, Inc. 225 Sand Road Fairfield, NJ 07004
Telephone Number	(973)-808-8444
Date	February 07, 2014

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(including manganese)	5mg/m ³ (TWA) [*]	0.2mg/m ³ (TWA)**		Not Listed	
(Non Hazardous Ingredients)					
Polyester resin					5-10

*(Manganese compounds (as Mn))

**(Manganese and inorganic compounds, as Mn)

*** (as Mn:15-20)

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 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	Do not rub eyes. Flush thoroughly with water and seek medical treatment.
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, CO_2 or Dry Chemical Extinguisher.
Fire Fighting Procedure	Pay attention not to blow away developer powder. Drain water off around and
	decrease 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	Do not release into drains and surface water.
Method for Cleaning Up	Gather the released developer, not blowing away, and wipe up with a wet cloth.

Section 7. Handling and Storage

Handling	Keep the container tightly closed. Keep away from children.
Storage	Keep the container tightly closed and store in a cool, dry an dark place keeping away from fire. 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.		
Skin/Hand/Body Protection	None required under normal use.		
Ventilation	Ventilator is not required under normal use.		
	Magenta Developer For FS-C5100DN,C5200DN,C5300DN,C5350DN, ECOSYS P6030cdn Page 2 of 4	2/7/:	

Section 9. Physical and Chemical Properties

Appearance Physical state Form Color Odor	Solid Fine powder Magenta Odorless
рН	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 the pressure rising speed.
Density	3.5-5.0 g/cm ³
Solubility	Almost insoluble in water.

Stable under normal use.

Section 10. Stability and Reactivity

Stab	oility/F	Reactivity	/		
		-		_	

Other Information

Hazardous Decomposition Products None

Section 11. Toxicological Information

Acute oral toxicity	(rat)LD ₅₀ >2,000mg/kg (Estimated from other products containing same materials.)[Toner] (rat)LD ₅₀ >2,000mg/kg (Estimated from other products containing same materials.)[Carrier]
Acute dermal toxicity	(rat)LD ₅₀ >2,000mg/kg (Estimated from Acute oral toxicity for same product.)[Toner] (rat)LD ₅₀ >2,000mg/kg (Estimated from Acute oral toxicity for same product.)[Carrier]
Acute inhalation toxicity	(rat)LC ₅₀ (4 hr)>5.02mg/l (Estimated from other products containing same materials.)[Toner]
Acute eye irritation	(rabbit) Minimal irritant (Estimated from other products containing same materials.)[Toner]
Acute skin irritation	(rabbit) Mild irritant (Estimated from other products containing same materials.) [Toner] (rabbit) Non irritant (Estimated from other products containing same materials.)[Carrier]
Skin sensitization	(mouse)Non-Sensitizer (Estimated from other products containing same materials.)[Toner] (guinea pig)Non-Sensitizer (Estimated from other products containing same materials.)[Carrier]
Mutagenicity	Ames Test is Negative. (Estimated from the data of constituent materials.) [Toner] Ames Test is Negative. (Estimated from the data of constituent materials.) [Carrier] No mutagen, according to MAK, TRGS905 and (EC)No 1272/2008 AnnexVI Table 3.2
Reproductive Toxicity	
Information on Ingredients	No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and (EC)No 1272/2008 AnnexVI Table 3.2
Carcinogenicity	
Information on Ingredients	No carcinogen or potential carcinogen according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK, California Proposition 65, TRGS905 and (EC)No 1272/2008 AnnexVI Table 3.2
Chronic effects:	
In a study in rats by chronic inhalati	on 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	g/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. E	But no pulmonary change was reported in the lowest (1mg/m ³) exposure group, the most relevant to
potential human exposures.	

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

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.

EU Information	Label information according to the Directives 67/548/EEC and 1999/45/EC)
Symbol & Indication	Not required
R-Phrase	Not required
S-Phrase	Not required
Special markings	Not required
Hazardous ingredients for labeling	Not required

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(1991)
- (2) ACGIH TLV (Threshold Limit Values)
- (3) OSHA PEL (Permissible Exposure Limits)

*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
TRGS	Technische Regeln für Gefahrstoffe (Deutsche)
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-C5100DN, FS-C5200DN, FS-C5300DN, FS-C5350DN ECOSYS P6030cdn
Manufacturer	KYOCERA Document Solutions Inc.
Address	KYOCERA Document Solutions America, Inc. 225 Sand Road Fairfield, NJ 07004
Telephone Number	(973)-808-8444
Date	February 07, 2014

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(including manganese)	5mg/m ³ (TWA) [*]	0.2mg/m ³ (TWA)**	Not Listed	Not Listed	85-95***
(Non Hazardous Ingredients)					
Polyester resin					5-10

*(Manganese compounds (as Mn))

**(Manganese and inorganic compounds, as Mn)

(
***(as	Mn:15-20)	

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 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	Do not rub eyes. Flush thoroughly with water and seek medical treatment.
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, CO_2 or Dry Chemical Extinguisher.
Fire Fighting Procedure	Pay attention not to blow away developer powder. Drain water off around and
	decrease 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	Do not release into drains and surface water.
Method for Cleaning Up	Gather the released developer, not blowing away, and wipe up with a wet cloth.

Section 7. Handling and Storage

Handling	Keep the container tightly closed. Keep away from children.
Storage	Keep the container tightly closed and store in a cool, dry and dark place keeping away from fire. 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.
Skin/Hand/Body Protection	None required under normal use.
Ventilation	Ventilator is not required under normal use.

Section 9. Physical and Chemical Properties

Appearance Physical state Form Color Odor	Solid Fine powder Yellow Odorless
	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 the pressure rising speed.
Density	3.5-5.0g/cm ⁻
Solubility	Almost insoluble in water.

Section 10. Stability and Reactivity

Stability/Reactivity	
Hazardous Decomposition Products	

Stable under normal use.

Hazardous Decomposition Products None

Section 11. Toxicological Information

Acute oral toxicity	(rat)LD ₅₀ >2,000mg/kg (Estimated from other products containing same materials.)[Toner] (rat)LD ₅₀ >2,000mg/kg (Estimated from other products containing same materials.)[Carrier]
Acute dermal toxicity	(rat)LD ₅₀ >2,000mg/kg (Estimated from Acute oral toxicity for same product.)[Toner] (rat)LD ₅₀ >2,000mg/kg (Estimated from Acute oral toxicity for same product.)[Carrier]
Acute inhalation toxicity	(rat)LC ₅₀ (4 hr)>5.02mg/l (Estimated from other products containing same materials.)[Toner]
Acute eye irritation	(rabbit) Minimal irritant (Estimated from other products containing same materials.)[Toner]
Acute skin irritation	(rabbit) Mild irritant (Estimated from other products containing same materials.) [Toner] (rabbit) Non irritant (Estimated from other products containing same materials.)[Carrier]
Skin sensitization	(mouse)Non-Sensitizer (Estimated from other products containing same materials.)[Toner] (guinea pig)Non-Sensitizer (Estimated from other products containing same materials.)[Carrier]
Mutagenicity Information on Ingredients	Ames Test is Negative. [Toner] (Estimated from other products containing the same materials.) Ames Test is Negative. [Carrier] (Estimated from other products containing the same materials.) No mutagen, according to MAK, TRGS905 and (EC)No 1272/2008 AnnexVI Table 3.2
Reproductive Toxicity Information on Ingredients	No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and (EC)No 1272/2008 AnnexVI Table 3.2
Carcinogenicity Information on Ingredients	No carcinogen or potential carcinogen according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK, California Proposition 65, TRGS905 and (EC)No 1272/2008 AnnexVI Table 3.2
Chronic effects:	
la a studiu in asta bu shanai sinhalati	in a supervise to a twice literary a wild to me denote degree of lung fibracia was absorbed in OOV of the

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 to potential human exposures.

Other Information

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

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.

EU Information	Label information according to the Directives 67/548/EEC and 1999/45/EC)
Symbol & Indication	Not required
R-Phrase	Not required
S-Phrase	Not required
Special markings	Not required
Hazardous ingredients for labeling	Not required

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(1991)
- (2) ACGIH TLV (Threshold Limit Values)
- (3) OSHA PEL (Permissible Exposure Limits)

*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
TRGS	Technische Regeln für Gefahrstoffe (Deutsche)
UN	United Nations
TSCA	Toxic Substances Control Act (USA)
WHMIS	Workplace Hazardous Materials Information System(Canada)

End of MSDS