

Section 1. Chemical Product and Company Identification

Product Name **Black Toner For FS-C5300DN, C5350DN**
 Manufacturer **Kyocera Document Solutions**
 Address **Kyocera Document Solutions Canada, Ltd.**
6120 Kestrel Road
Mississauga, Ontario L5T 1S8
 Telephone Number **(905) 670-4425**
 Date **February 16, 2017**

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 | 5-10 |
| (CAS No. 7631-86-9) Amorphous Silica | 80mg/m ³ /%SiO ₂ (TWA) | Not Listed | Group3 | Not Listed | 1-5 |
| | | | | | |
| (Non Hazardous Ingredients) | | | | | |
| Polyester resin | | | | | 70-80 |
| Styrene acrylate copolymer | | | | | 1-5 |
| Wax | | | | | 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.

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.

Section 5. Fire Fighting Measures

Extinguishing Media Water (Sprinkle with Water), Foam, Powder, CO₂ or Dry Chemical Extinguisher.
Fire Fighting Procedure Do not blow away toner powder. Drain water off around and decrease the atmosphere temperature to extinguish the fire.

Section 6. Accidental Release Measures

Personal Precautions Avoid inhalation, ingestion, eye and skin contact in case of accidental toner release.
Environmental Precautions No special precaution.
Method for Cleaning Up Clean up with a vacuum cleaner with a .5 micron filter or smaller. 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(2008)-TWA Inhalable fraction 10mg/m³, Respirable fraction 3mg/m³
OSHA PEL(2006)-TWA Total dust 15mg/m³, Respirable fraction 5mg/m³

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
pH N.A.
Melting Point 100-120⁰C
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)LD₅₀>2,000mg/kg (Estimated from other products containing same materials.)
Acute dermal toxicity (rat)LD₅₀>2,000mg/kg (Estimated from Acute oral toxicity for same product.)
Acute inhalation toxicity (rat)LC₅₀(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 Ames Test is Negative. (Estimated from the data of constituent materials.)
Reproductive Toxicity No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and EU Directive(67/548/EEC).
Carcinogenicity No carcinogen or potential carcinogen (except carbon black), according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK, California Proposition 65, TRGS 905 and EU Directive(67/548/EEC).

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

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

Chronic effects:

In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m³) exposure group. But no pulmonary change was

reported in the lowest (1mg/m³) exposure group, the most relevant level to potential human exposures.

Other Information None



MATERIAL SAFETY DATA SHEET

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, province and federal laws and regulations relating to waste (contact local or province 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.

End of MSDS



MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name **Cyan Toner For FS-C5300DN, C5350DN**
 Manufacturer **Kyocera Document Solutions**
 Address **Kyocera Document Solutions Canada, Ltd.**
6120 Kestrel Road
Mississauga, Ontario L5T 1S8
 Telephone Number **(905) 670-4425**
 Date **February 16, 2017**

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 |
| | | | | | |
| | | | | | |
| (Non Hazardous Ingredients) | | | | | |
| Polyester resin 1 | | | | | 70-80 |
| Polyester resin 2 | | | | | 5-10 |
| Organic pigment | | | | | 1-5 |
| Styrene acrylate copolymer | | | | | 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.

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.

Cyan Toner For FS-C5300DN, C5350DN

Section 5. Fire Fighting Measures

Extinguishing Media Water (Sprinkle with Water), Foam, Powder, CO₂ or Dry Chemical Extinguisher.
Fire Fighting Procedure Do not blow away toner powder. Drain water off around and decrease the atmosphere temperature to extinguish the fire.

Section 6. Accidental Release Measures

Personal Precautions Avoid inhalation, ingestion, eye and skin contact in case of accidental toner release.
Environmental Precautions No special precaution.
Method for Cleaning Up Clean up with a vacuum cleaner with a .5 micron filter or smaller. 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.
Storage Keep the toner container tightly closed.
Store in a cool, dry and dark place keeping away from fire. Keep the toner container tightly closed. Keep away from children.

Section 8. Exposure Controls/Personal Protection

Control Parameters<Reference Data>

ACGIH TLV(2008)-TWA Inhalable fraction 10mg/m³, Respirable fraction 3mg/m³
OSHA PEL(2006)-TWA Total dust 15mg/m³, Respirable fraction 5mg/m³
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
pH N.A.
Melting Point 100-120⁰C
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)LD₅₀>2,000mg/kg (Estimated from other products containing same materials.)
Acute dermal toxicity (rat)LD₅₀>2,000mg/kg (Estimated from Acute oral toxicity for same product.)
Acute inhalation toxicity (rat)LC₅₀(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 other products containing the same materials.)
Reproductive Toxicity No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and EU Directive(67/548/EEC).
Carcinogenicity No carcinogen or potential carcinogen according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK, California Proposition 65, TRGS905 and EU Directive (67/548/EEC).
Chronic effects: In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m³) exposure group. But no pulmonary change was reported in the lowest (1mg/m³) exposure group, the most relevant level to potential human exposures.
Other information None

Section 12. Ecological Information

No data available

Section 13. Disposal Considerations

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

<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) unter 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 Toner For FS-C5300DN, C5350DN**
Manufacturer **Kyocera Document Solutions**
Address **Kyocera Document Solutions Canada, Ltd.
6120 Kestrel Road
Mississauga, Ontario L5T 1S8**
Telephone Number **(905) 670-4425**
Date **February 16, 2017**

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 |
| | | | | | |
| | | | | | |
| (Non Hazardous Ingredients) | | | | | |
| Polyester resin 1 | | | | | 70-80 |
| Polyester resin 2 | | | | | 5-10 |
| Organic pigment | | | | | 1-5 |
| Styrene acrylate copolymer | | | | | 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.

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.

Section 5. Fire Fighting Measures

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

Section 6. Accidental Release Measures

| | |
|---------------------------|--|
| Personal Precautions | Avoid inhalation, ingestion, eye and skin contact in case of accidental toner release. |
| Environmental Precautions | No special precaution. |
| Method for Cleaning Up | Clean up with a vacuum cleaner with a .5 micron filter or smaller. 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(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 |

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 |
| pH | N.A. |
| Melting Point | 100-120°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)LD₅₀>2,000mg/kg (Estimated from other products containing same materials.)
Acute dermal toxicity (rat)LD₅₀>2,000mg/kg (Estimated from Acute oral toxicity for same product.)
Acute inhalation toxicity (rat)LC₅₀(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 Ames Test is Negative. (Estimated from other products containing same materials.)
Reproductive Toxicity No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and EU Directive(67/548/EEC).

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

Chronic effects: In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m³) exposure group. But no pulmonary change was reported in the lowest (1mg/m³) exposure group, the most relevant level to potential human exposures.

Other Information None

Section 12. Ecological Information

No data available

Section 13. Disposal Considerations

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

<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) unter 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 Labour Office |
| UN | Nnited 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 Toner For FS-C5300DN, C5350DN**
 Manufacturer **Kyocera Document Solutions**
 Address **Kyocera Document Solutions Canada, Ltd.**
6120 Kestrel Road
Mississauga, Ontario L5T 1S8
 Telephone Number **(905) 670-4425**
 Date **February 16, 2017**

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 |
| | | | | | |
| | | | | | |
| (Non Hazardous Ingredients) | | | | | |
| Polyester resin 1 | | | | | 70-80 |
| Polyester resin 2 | | | | | 5-10 |
| Organic pigment | | | | | 1-5 |
| Styrene acrylate copolymer | | | | | 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.

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.

Section 5. Fire Fighting Measures

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

Section 6. Accidental Release Measures

| | |
|---------------------------|--|
| Personal Precautions | Avoid inhalation, ingestion, eye and skin contact in case of accidental toner release. |
| Environmental Precautions | No special precaution. |
| Method for Cleaning Up | Clean up with a vacuum cleaner with a .5 micron filter or smaller. 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(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 |
| 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 |
| pH | 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)LD₅₀>2,000mg/kg (Estimated from other products containing same materials.)
Acute dermal toxicity (rat)LD₅₀>2,000mg/kg (Estimated from Acute oral toxicity for same product.)
Acute inhalation toxicity (rat)LC₅₀(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 Ames Test is Negative.
Reproductive Toxicity No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and EU Directive(67/548/EEC).
Carcinogenicity No carcinogen or potential carcinogen according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK, California Proposition 65, TRGS905 and EU Directive (67/548/EEC).
Chronic effects: In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m³) exposure group. But no pulmonary change was reported in the lowest (1mg/m³) exposure group, the most relevant level to potential human exposures.
Other Information None

Section 12. Ecological Information

No data available

Section 13. Disposal Considerations

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

<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) unter 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 Labour Office |
| UN | Nnited 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**

Manufacturer Kyocera Document Solutions

Address Kyocera Document Solutions Canada, Ltd.
6120 Kestrel Road
Mississauga, Ontario L5T 1S8

Telephone Number (905) 670-4425

Date February 16, 2017

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 (Ceiling)(as Mn) | 0.2mg/m ³ (TWA) (as Mn) | Not Listed | Not Listed | 85-95 (as Mn:15-20) |
| (CAS No. 1333-86-4) Carbon Black | 3.5mg/m ³ (TWA) | 3.5mg/m ³ (TWA) | Group2B | Not Listed | <1 |
| | | | | | |
| | | | | | |
| | | | | | |
| (Non Hazardous Ingredients) | | | | | |
| | | | | | |
| Polyester resin | | | | | 5-10 |
| | | | | | |
| | | | | | |
| | | | | | |

Section 3. Hazards Identification

Most Important Hazards None

Specific Hazards None

Other Information on Hazards:

Potential Health Effects:

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

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

Eye Contact May cause eye irritation.

Skin Contact Unlikely to cause skin irritation.

Section 4. First Aid Measures

| | |
|--------------|---|
| Inhalation | Remove from exposure to fresh air and gargle with plenty of water. Seek medical treatment in case of such a symptom as coughing. |
| Skin Contact | Wash with soap and water. 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. |
| 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(2008)-TWA | Inhalable fraction 10mg/m ³ , Respirable fraction 3mg/m ³ |
| OSHA PEL(2006)-TWA | Total dust 15mg/m ³ , Respirable fraction 5mg/m ³ |
| Protective Equipment | |
| Respiratory Protection | None required under normal use. |
| Eye/Face Protection | None required under normal use. |
| Skin/Hand/Body Protection | None required under normal use. |
| Ventilation | Ventilator is 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 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[Toner] (Estimated from other products containing same materials.) (rat)LD ₅₀ >2,000mg/kg[Carrier] (Estimated from other products containing same materials.) |
| Acute dermal toxicity | (rat)LD ₅₀ >2,000mg/kg[Toner] (Estimated from Acute oral toxicity for same product.) |
| Acute inhalation toxicity | (rat)LC ₅₀ (4 hr)>5.02mg/l[Toner] (Estimated from other products containing same materials.) |
| Acute eye irritation | (rabbit) Minimal irritant [Toner] (Estimated from other products containing same materials.) |
| Acute skin irritation | (rabbit) Mild irritant [Toner] (Estimated from other products containing same materials.) (rabbit) Non irritant [Carrier] (Estimated from other products containing same materials.) |
| Skin sensitization | (mouse)Non-Sensitizer [Toner] (Estimated from other products containing same materials.) (guinea pig)Non-Sensitizer [Carrier] (Estimated from other products containing same materials.) |
| Mutagenicity | Ames Test is Negative. [Toner] (Estimated from the data of constituent materials.) Ames Test is Negative. [Carrier] (Estimated from other products containing same materials.) |
| Reproductive Toxicity | No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and EU Directive(67/548/EEC). |
| Carcinogenicity | No carcinogen or potential carcinogen (except carbon black) according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK, California Proposition 65, TRGS905 and EU Directive (67/548/EEC). |

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

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

Chronic effects

In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m³) exposure group. But no pulmonary change was reported in the lowest (1mg/m³) exposure group, the most relevant level to potential human exposures.

| | |
|-------------------|------|
| Other Information | None |
|-------------------|------|



MATERIAL SAFETY DATA SHEET

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, province and federal laws and regulations relating to waste (contact local or province 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.

Abbreviation

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

End of MSDS

Black Developer For FS-C5100DN, C5200DN, C5300DN, C5350DN

Section 1. Chemical Product and Company Identification

Product Name **Cyan Developer For FS-C5100DN, FS-C5200DN, FS-C5300DN, FS-C5350DN**

Manufacturer Kyocera Document Solutions

Address Kyocera Document Solutions Canada, Ltd.
6120 Kestrel Road
Mississauga, Ontario L5T 1S8

Telephone Number (905) 670-4425

Date February 16, 2017

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 (Ceiling)(as Mn) | 0.2mg/m ³ (TWA) (as Mn) | Not Listed | Not Listed | 85-95 (as Mn:15-20) |
| | | | | | |
| | | | | | |
| | | | | | |
| (Non Hazardous Ingredients) | | | | | |
| | | | | | |
| Polyester resin | | | | | 5-10 |
| | | | | | |
| | | | | | |
| | | | | | |

Section 3. Hazards Identification

Most Important Hazards None

Specific Hazards None

Other Information on Hazards:

Potential Health Effects:

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

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

Eye Contact May cause eye irritation.

Skin Contact Unlikely to cause skin irritation.

Section 4. First Aid Measures

| | |
|--------------|---|
| Inhalation | Remove from exposure to fresh air and gargle with plenty of water. Seek medical treatment in case of such a symptom as coughing. |
| Skin Contact | Wash with soap and water. 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. |
| 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(2008)-TWA | Inhalable fraction 10mg/m ³ , Respirable fraction 3mg/m ³ |
| OSHA PEL(2006)-TWA | Total dust 15mg/m ³ , Respirable fraction 5mg/m ³ |
| Protective Equipment | |
| Respiratory Protection | None required under normal use. |
| Eye/Face Protection | None required under normal use. |
| Skin/Hand/Body Protection | None required under normal use. |
| Ventilation | Ventilator is 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 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[Toner] (Estimated from other products containing same materials.) (rat)LD ₅₀ >2,000mg/kg[Carrier] (Estimated from other products containing same materials.) |
| Acute dermal toxicity | (rat)LD ₅₀ >2,000mg/kg[Toner] (Estimated from Acute oral toxicity for same product.) |
| Acute inhalation toxicity | (rat)LC ₅₀ (4 hr)>4.98mg/l[Toner] (Estimated from other products containing same materials.) [This value is the maximum attainable concentration for dust.] |
| Acute eye irritation | (rabbit) Minimal irritant [Toner] (Estimated from other products containing same materials.) |
| Acute skin irritation | (rabbit) Mild irritant [Toner] (Estimated from other products containing same materials.) (rabbit) Non irritant [Carrier] (Estimated from other products containing same materials.) |
| Skin sensitization | (mouse)Non-Sensitizer [Toner] (Estimated from other products containing same materials.) (guinea pig)Non-Sensitizer [Carrier] (Estimated from other products containing same materials.) |
| Mutagenicity | Ames Test is Negative. [Toner] (Estimated from other products containing same materials.) Ames Test is Negative. [Carrier] (Estimated from other products containing same materials.) |
| Reproductive Toxicity | No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and EU Directive(67/548/EEC). |
| Carcinogenicity | No carcinogen or potential carcinogen according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK, California Proposition 65, TRGS905 and EU Directive (67/548/EEC). |
| Chronic effects | In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16mg/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 |



MATERIAL SAFETY DATA SHEET

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, province and federal laws and regulations relating to waste (contact local or province 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.

Abbreviation

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

End of MSDS

Section 1. Chemical Product and Company Identification

Product Name **Magenta Developer For FS-C5100DN, FS-C5200DN, FS-C5300DN, FS-C5350DN**

Manufacturer Kyocera Document Solutions

Address Kyocera Document Solutions Canada, Ltd.
6120 Kestrel Road
Mississauga, Ontario L5T 1S8

Telephone Number (905) 670-4425

Date February 16, 2017

Section 2. Composition/Information on Ingredients

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

Section 3. Hazards Identification

Most Important Hazards None

Specific Hazards None

Other Information on Hazards:

Potential Health Effects:

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

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

Eye Contact May cause eye irritation.

Skin Contact Unlikely to cause skin irritation.

Section 4. First Aid Measures

| | |
|--------------|---|
| Inhalation | Remove from exposure to fresh air and gargle with plenty of water. Seek medical treatment in case of such a symptom as coughing. |
| Skin Contact | Wash with soap and water. 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. |
| 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(2008)-TWA | Inhalable fraction 10mg/m ³ , Respirable fraction 3mg/m ³ |
| OSHA PEL(2006)-TWA | Total dust 15mg/m ³ , Respirable fraction 5mg/m ³ |
| Protective Equipment | |
| Respiratory Protection | None required under normal use. |
| Eye/Face Protection | None required under normal use. |
| Skin/Hand/Body Protection | None required under normal use. |
| Ventilation | Ventilator is 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 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[Toner] (Estimated from other products containing same materials.) (rat)LD ₅₀ >2,000mg/kg[Carrier] (Estimated from other products containing same materials.) |
| Acute dermal toxicity | (rat)LD ₅₀ >2,000mg/kg[Toner] (Estimated from Acute oral toxicity for same product.) |
| Acute inhalation toxicity | (rat)LC ₅₀ (4 hr)>5.02mg/l[Toner] (Estimated from other products containing same materials.) |
| Acute eye irritation | (rabbit) Minimal irritant [Toner] (Estimated from other products containing same materials.) |
| Acute skin irritation | (rabbit) Mild irritant [Toner] (Estimated from other products containing same materials.) (rabbit) Non irritant [Carrier] (Estimated from other products containing same materials.) |
| Skin sensitization | (mouse)Non-Sensitizer [Toner] (Estimated from other products containing same materials.) (guinea pig)Non-Sensitizer [Carrier] (Estimated from other products containing same materials.) |
| Mutagenicity | Ames Test is Negative. [Toner] (Estimated from other products containing same materials.) Ames Test is Negative. [Carrier] (Estimated from other products containing same materials.) |
| Reproductive Toxicity | No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and EU Directive(67/548/EEC). |
| Carcinogenicity | No carcinogen or potential carcinogen according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK, California Proposition 65, TRGS905 and EU Directive (67/548/EEC). |
| Chronic effects: | In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16mg/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 |



MATERIAL SAFETY DATA SHEET

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, province and federal laws and regulations relating to waste (contact local or province 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.

Abbreviation

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

End of MSDS





MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name **Yellow Developer For FS-C5100DN, FS-C5200DN, FS-C5300DN, FS-C5350DN**

Manufacturer Kyocera Document Solutions

Address Kyocera Document Solutions Canada, Ltd.
6120 Kestrel Road
Mississauga, Ontario L5T 1S8

Telephone Number (905) 670-4425

Date February 16, 2017

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 (Ceiling)(as Mn) | 0.2mg/m ³ (TWA) (as Mn) | Not Listed | Not Listed | 85-95 (as Mn:15-20) |
| | | | | | |
| | | | | | |
| | | | | | |
| (Non Hazardous Ingredients) | | | | | |
| | | | | | |
| Polyester resin | | | | | 5-10 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Section 3. Hazards Identification

Most Important Hazards None

Specific Hazards None

Other Information on Hazards:

Potential Health Effects:

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

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

Eye Contact May cause eye irritation.

Skin Contact Unlikely to cause skin irritation.

Section 4. First Aid Measures

| | |
|--------------|---|
| Inhalation | Remove from exposure to fresh air and gargle with plenty of water. Seek medical treatment in case of such a symptom as coughing. |
| Skin Contact | Wash with soap and water. 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. |
| 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(2008)-TWA | Inhalable fraction 10mg/m ³ , Respirable fraction 3mg/m ³ |
| OSHA PEL(2006)-TWA | Total dust 15mg/m ³ , Respirable fraction 5mg/m ³ |

Protective Equipment

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

| | |
|-------------|--|
| Ventilation | Ventilator is not required under normal use. |
|-------------|--|

Section 9. Physical and Chemical Properties

| | |
|----------------------|---|
| Appearance | |
| Physical state | Solid |
| Form | Fine powder |
| Color | Yellow |
| Odor | Odorless |
| 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 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[Toner] (Estimated from other products containing same materials.) (rat)LD ₅₀ >2,000mg/kg[Carrier] (Estimated from other products containing the same materials.) |
| Acute dermal toxicity | (rat)LD ₅₀ >2,000mg/kg[Toner] (Estimated from Acute oral toxicity for same product.) |
| Acute inhalation toxicity | (rat)LC ₅₀ (4 hr)>5.02mg/l[Toner] (Estimated from other products containing same materials.) [This value is the maximum attainable concentration for dust.] |
| Acute eye irritation | (rabbit) Minimal irritant [Toner] (Estimated from other products containing same materials.) |
| Acute skin irritation | (rabbit) Mild irritant [Toner] (Estimated from other products containing same materials.) (rabbit) Non irritant [Carrier] (Estimated from the other products containing the same materials.) |
| Skin sensitization | (mouse)Non-Sensitizer [Toner] (Estimated from other products containing same materials.) (guinea pig)Non-Sensitizer [Carrier] (Estimated from other products containing the same materials.) |
| Mutagenicity | 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.) |
| Reproductive Toxicity | No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and EU Directive(67/548/EEC). |
| Carcinogenicity | No carcinogen or potential carcinogen according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK, California Proposition 65, TRGS905 and EU Directive (67/548/EEC). |
| Chronic effects: | |
| | In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16mg/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 |



MATERIAL SAFETY DATA SHEET

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, province and federal laws and regulations relating to waste (contact local or province 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.

Abbreviation

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

End of MSDS

