## Section 1. Chemical Product and Company Identification

**Product Name**  Black Toner For TASKalfa 3050ci, 3051ci, 3550ci, 3551ci  
**Manufacturer**  Kyocera Document Solutions  
**Address**  Kyocera Documents Solutions Canada, Ltd.  
6120 Kestrel Road  
Mississauga, Ontario  L5T 1S8  
**Telephone Number**  (905) 670-4425  
**Date**  January, 2015

## Section 2. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>OSHA PEL SubpartZ</th>
<th>ACGIH TLV</th>
<th>IARC</th>
<th>NTP</th>
<th>Weight%</th>
</tr>
</thead>
<tbody>
<tr>
<td>(CAS No. 1333-86-4) Carbon Black</td>
<td>3.5mg/m³ (TWA)</td>
<td>3.5mg/m³ (TWA)</td>
<td>Group2B</td>
<td>Not Listed</td>
<td>5-10</td>
</tr>
<tr>
<td>(CAS No. 66402-68-4) Ferrite (Ferrite including manganese)</td>
<td>5mg/m³ (Ceiling) (Manganese compounds (asMn))</td>
<td>0.2mg/m³ (TWA) (Manganese and inorganic compounds as Mn)</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>1-10 (as Mn:&lt;2)</td>
</tr>
<tr>
<td>(CAS No. 7631-86-9) Amorphous silica</td>
<td>80mg/m³%SiO₂ (TWA)</td>
<td>Not Listed</td>
<td>Group3</td>
<td>Not Listed</td>
<td>1-5</td>
</tr>
<tr>
<td>(CAS No. 13463-67-7) Titanium dioxide</td>
<td>15mg/m³ (Total Dust) (TWA)</td>
<td>10mg/m³(TWA)</td>
<td>Group 2B</td>
<td>Not Listed</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

### (Non Hazardous Ingredients)

Polyester resin 65-75

## 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**
Flush thoroughly with water and seek medical treatment if irritating.

**Ingestion**
Ingestion is not applicable route of entry for intended use. Rinse out mouth. Drink one or two glasses of water to dilute. Seek medical treatment if necessary.

**Section 5. Fire Fighting Measures**

**Extinguishing Media**
Water (Sprinkle with water), Foam, Powder, CO₂ or Dry Chemical Extinguisher.

**Fire Fighting Procedure**
Pay attention not to 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, 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/m³, Respirable fraction 3mg/m³

OSHA PEL(3)-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.

**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: Not applicable

Melting Point: 100-120°C

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

Density: 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.) [Toner]
- (rat) LD₅₀ > 2,500mg/kg (Estimated from the data of constituent materials.) [Carrier]

Acute dermal toxicity
- (rat) LD₅₀ > 2,000mg/kg (Estimated from Acute oral toxicity for same product.) [Toner]
- (rat) LD₅₀ > 2,000mg/kg (Estimated from the data of constituent materials.) [Carrier]

Acute inhalation toxicity
- (rat) LC₅₀ (4hr) > 5.0mg/l (Estimated from other products containing same materials.) [Toner]

Acute skin irritation
- (rabbit) Non-irritant (Estimated from the data of constituent materials.) [Carrier]

Skin sensitization
- (mouse) Non-Sensitiser (Estimated from other products containing same materials.) [Toner]
- (guinea pig) Non-Sensitiser (Estimated from the data of constituent materials.) [Carrier]

Mutagenicity
- Ames Test is Negative. [Toner]
- Ames Test is Negative. (Estimated from the data of constituent materials.) [Carrier]

Information of Ingredients:
- No mutagen, according to MAK, TRGS905 and (EC) No 1272/2008 AnnexVI Table3.2.

Reproductive Toxicity

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

Carcinogenicity

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

The IARC reevaluated carbon black and titanium dioxide as a Group 2B carcinogen (possibly carcinogenic to humans) as the result of inhalation exposure test in rats. But, oral/skin test does not show carcinogenicity. The evaluation of carbon black is based upon the development of lung tumors in rats 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.

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). 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. 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

<table>
<thead>
<tr>
<th>UN No.</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN Shipping Name</td>
<td>None</td>
</tr>
<tr>
<td>UN Classification</td>
<td>None</td>
</tr>
<tr>
<td>UN Packing Group</td>
<td>None</td>
</tr>
<tr>
<td>Special Precautions</td>
<td>None</td>
</tr>
</tbody>
</table>

Section 15. Regulatory Information

US Information
All components in this product comply with order under TSCA.

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 None
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)
(2) ACGIH TLV (Threshold Limit Values)
(3) OSHA PEL (Permissible Exposure Limits)
(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 unter Deutsche Forschungsgemeinschaft
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 TASKalfa 3050ci, 3051ci, 3550ci, 3551ci

Manufacturer: Kyocera Document Solutions

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

Telephone Number: (905) 670-4425

Date: January, 2015

Section 2. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>OSHA PEL SubpartZ</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Chemical Identity, Common Name/s)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(CAS No. 66402-68-4) Ferrite (Ferrite including manganese)</td>
<td>5mg/m³(Ceiling) (Manganese compounds (asMn))</td>
<td>0.2mg/m³ (TWA) (Manganese and inorganic compounds as Mn)</td>
</tr>
<tr>
<td>(CAS No. 7631-86-9) Amorphous silica</td>
<td>80mg/m³%SiO₂(TWA 15mg/m³)</td>
<td>Not Listed Group3 Not Listed</td>
</tr>
<tr>
<td>(CAS No. 13463-67-7) Titanium dioxide</td>
<td></td>
<td>10mg/m³(TWA) Group 2B Not Listed</td>
</tr>
</tbody>
</table>

(Non Hazardous Ingredients)

Polyester resin (2 kinds) 70-85

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**  
Flush thoroughly with water and seek medical treatment if irritating.

**Ingestion**  
Ingestion is not applicable route of entry for intended use. Rinse out mouth. Drink one or two glasses of water to dilute. Seek medical treatment if necessary.

Section 5. Fire Fighting Measures

**Extinguishing Media**  
Water (Sprinkle with water), Foam, Powder, CO₂ or Dry Chemical Extinguisher.

**Fire Fighting Procedure**  
Pay attention not to 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, 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>**

<table>
<thead>
<tr>
<th>ACGIH TLV(2)-TWA</th>
<th>Inhalable fraction 10mg/m³, Respirable fraction 3mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA PEL(3)-TWA</td>
<td>Total dust 15mg/m³, Respirable fraction 5mg/m³</td>
</tr>
</tbody>
</table>

**Protective Equipment**

<table>
<thead>
<tr>
<th>Respiratory Protection</th>
<th>None required under normal use.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye/Face Protection</td>
<td>None required under normal use.</td>
</tr>
<tr>
<td>Skin/Hand/Body Protection</td>
<td>None required under normal use.</td>
</tr>
<tr>
<td>Ventilation</td>
<td>Ventilator is not required under normal use.</td>
</tr>
</tbody>
</table>
Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Solid</td>
</tr>
<tr>
<td>Physical state</td>
<td>Fine powder</td>
</tr>
<tr>
<td>Color</td>
<td>Cyan</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting Point</td>
<td>100-120°C [Toner]</td>
</tr>
<tr>
<td>Explosion Properties</td>
<td>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.</td>
</tr>
<tr>
<td>Density</td>
<td>1.2-1.4g/cm³ [Toner]</td>
</tr>
<tr>
<td>Solubility</td>
<td>Almost insoluble in water.</td>
</tr>
</tbody>
</table>

Section 10. Stability and Reactivity

<table>
<thead>
<tr>
<th>Stability/Reactivity</th>
<th>Stable under normal use.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous Decomposition Products</td>
<td>None</td>
</tr>
</tbody>
</table>

Section 11. Toxicological Information

<table>
<thead>
<tr>
<th>Toxicological Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute oral toxicity (rat)</td>
<td>LD₅₀ &gt; 2,000mg/kg (Estimated from other products containing same materials.) [Toner]</td>
</tr>
<tr>
<td>Acute dermal toxicity (rat)</td>
<td>LD₅₀ &gt; 2,000mg/kg (Estimated from the data of constituent materials.) [Carrier]</td>
</tr>
<tr>
<td>Acute inhalation toxicity (rat)</td>
<td>LC₅₀ (4hr) &gt; 2.0mg/l (Estimated from other products containing same materials.) [Toner]</td>
</tr>
<tr>
<td>Acute eye irritation (rabbit)</td>
<td>Non-irritant (Estimated from other products containing same materials.) [Carrier]</td>
</tr>
<tr>
<td>Skin sensitization (mouse)</td>
<td>Non-Sensitiser (Estimated from other products containing same materials.) [Toner]</td>
</tr>
<tr>
<td>Mutagenicity</td>
<td>Ames Test is Negative. [Carrier]</td>
</tr>
<tr>
<td>Information of Ingredients:</td>
<td>No mutagen, according to MAK, TRGS905 and (EC) No 1272/2008 AnnexVI Table3.2.</td>
</tr>
<tr>
<td>Reproductive Toxicity:</td>
<td>No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and (EC) No 1272/2008 AnnexVI Table3.2.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No carcinogen or potential carcinogen (except titanium dioxide) according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, MAK, California Proposition 65, TRGS905, and (EC) No 1272/2008 AnnexVI Table3.2.</td>
</tr>
</tbody>
</table>

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. 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 the rat's lung clearance mechanism (overload phenomenon). 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. 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

US Information
All components in this product comply with order under TSCA.

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 None

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)
(2) ACGIH TLV (Threshold Limit Values)
(3) OSHA PEL (Permissible Exposure Limits)
(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 unter Deutsche Forschungsgemeinschaft
PEL Permissible Exposure Limit
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 Toner For TASKalfa 3050ci, 3051ci, 3550ci, 3551ci
Manufacturer: Kyocera Document Solutions
Address: Kyocera Documents Solutions Canada, Ltd.
6120 Kestrel Road
Mississauga, Ontario L5T 1S8
Telephone Number: (905) 670-4425
Date: January, 2015

Section 2. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>OSHA PEL Subpart Z</th>
<th>ACGIH TLV</th>
<th>IARC</th>
<th>NTP</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>(CAS No. 66402-68-4) Ferrite (Ferrite including manganese)</td>
<td>5mg/m³ (Ceiling) (Manganese compounds (as Mn))</td>
<td>0.2mg/m³ (TWA) (Manganese and inorganic compounds as Mn)</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>1-10 (as Mn:&lt;2)</td>
</tr>
<tr>
<td>(CAS No. 7631-86-9) Amorphous silica</td>
<td>80mg/m³ (%SiO₂(TWA) 15mg/m³</td>
<td>Not Listed</td>
<td>Group3</td>
<td>Not Listed</td>
<td>1-5</td>
</tr>
<tr>
<td>(CAS No. 13463-67-7) Titanium dioxide</td>
<td>(Total Dust) (TWA) 10mg/m³(TWA)</td>
<td>Group 2B</td>
<td>Not Listed</td>
<td>&lt;1</td>
<td></td>
</tr>
<tr>
<td>(Non Hazardous Ingredients)</td>
<td>Polyester resin (2 kinds)</td>
<td>70-85</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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
Flush thoroughly with water and seek medical treatment if irritating.

Ingestion
Ingestion is not applicable route of entry for intended use. Rinse out mouth. Drink one or two glasses of water to dilute. Seek medical treatment if necessary.

Section 5. Fire Fighting Measures

Extinguishing Media
Water (Sprinkle with water), Foam, Powder, CO₂ or Dry Chemical Extinguisher.

Fire Fighting Procedure
Pay attention not to 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, 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<sub>(27)</sub>TWA
Inhalable fraction 10mg/m<sup>3</sup>, Respirable fraction 3mg/m<sup>3</sup>

OSHA PEL<sub>(3)</sub>TWA
Total dust 15mg/m<sup>3</sup>, Respirable fraction 5mg/m<sup>3</sup>

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  Not applicable
Melting Point  100-120°C
Explosion Properties  Dust explosion is improbable under normal use. Experimental explosiveness of toner is classified into the same rank such kind of powder as flour, dry milk and resin powder according to the pressure rising speed.
Density  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  \( (rat) \text{LD}_{50} > 2,000 \text{mg/kg} \) (Estimated from other products containing same materials.)[Toner]
Acute dermal toxicity  \( (rat) \text{LD}_{50} > 2,500 \text{mg/kg} \) (Estimated from the data of constituent materials.)[Carrier]
Acute inhalation toxicity  \( (rat) \text{LC}_{50} (4hr) > 5.0 \text{mg/l} \) (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.)[Carrier]
Skin sensitization  (mouse) Non-Sensitiser (Estimated from other products containing same materials.)[Toner]
Mutagenicity  Ames Test is Negative. (Estimated from the data of constituent materials.)[Carrier]
Information of Ingredients:  No mutagen, according to MAK, TRGS905 and (EC)No 1272/2008 AnnexVI Table3.2.

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

Carcinogenicity
Information of Ingredients:  No carcinogen or potential carcinogen (except titanium dioxide) according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, MAK, California Proposition 65, TRGS905, 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. 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 the rat's lung clearance mechanism (overload phenomenon).[23]
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.[11] 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

US Information
All components in this product comply with order under TSCA.

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 None

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)
(2) ACGIH TLV (Threshold Limit Values)
(3) OSHA PEL (Permissible Exposure Limits)
(5) NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide DRAFT".

<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 (Deutsche Forschungsgemeinschaft)
TRGS905 Technische Regeln für Gefahrstoffe (Deutsche)
UN United Nations
TSCA Toxic Substances Control Act (USA)
WHMIS Workplace Hazardous Materials Information System (Canada)
## Section 1. Chemical Product and Company Identification

**Product Name**  Yellow Toner For TASKalfa 3050ci, 3051ci, 3550ci, 3551ci  
**Manufacturer**  Kyocera Document Solutions  
**Address**  Kyocera Documents Solutions Canada, Ltd.  
6120 Kestrel Road  
Mississauga, Ontario L5T 1S8  
**Telephone Number**  (905) 670-4425  
**Date**  January, 2015

## Section 2. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>OSHA PEL SubpartZ</th>
<th>ACGIH TLV</th>
<th>IARC</th>
<th>NTP</th>
<th>Weight%</th>
</tr>
</thead>
<tbody>
<tr>
<td>(CAS No. 66402-68-4) Ferrite (Ferrite including manganese)</td>
<td>5mg/m³ (Ceiling) (Manganese compounds (as Mn))</td>
<td>0.2mg/m³ (TWA) (Manganese and inorganic compounds as Mn)</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>1-10 (as Mn:&lt;2)</td>
</tr>
<tr>
<td>(CAS No. 7631-86-9) Amorphous silica</td>
<td>80mg/m³/%SiO₂ (TWA) 15mg/m³ (Total Dust) (TWA)</td>
<td>Not Listed</td>
<td>Group3</td>
<td>Not Listed</td>
<td>1-5</td>
</tr>
<tr>
<td>(CAS No. 13463-67-7) Titanium dioxide</td>
<td>10mg/m³ (TWA)</td>
<td>Group 2B</td>
<td>Not Listed</td>
<td>&lt;1</td>
<td></td>
</tr>
</tbody>
</table>

(Non Hazardous Ingredients)  

Polyester resin (2 kinds) 70-85

## 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

| 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.
| Inhalation                 | Remove from exposure to fresh air and gargle with plenty of water.
|                           | Seek medical treatment in case of such a symptom as coughing.
| Skin Contact               | Wash with soap and water. If irritation does occur, seek medical treatment.
| Eye Contact                | Flush thoroughly with water and seek medical treatment if irritating.

Section 5. Fire Fighting Measures

| Extinguishing Media        | Water (Sprinkle with water), Foam, Powder, CO₂ or Dry Chemical Extinguisher.
| Fire Fighting Procedure    | Pay attention not to 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, 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/m³, Respirable fraction 3mg/m³
| OSHA PEL(3)-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.
| 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
pH: Not applicable
Melting Point: 100-120°C (Toner)

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

Density: 1.2-1.4g/cm³ (Toner)
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.) [Toner]
(rat) LD₅₀>2,500mg/kg (Estimated from the data of constituent materials.) [Carrier]

Acute dermal toxicity
(rat) LD₅₀>2,000mg/kg (Estimated from Acute oral toxicity for same product.) [Toner]
(rat) LD₅₀>2,000mg/kg (Estimated from the data of constituent materials.) [Carrier]

Acute inhalation toxicity
(rat) LC₅₀(4hr)>5.0mg/l (Estimated from other products containing same materials.) [Toner]
(rabbit) Minimal irritant (Estimated from the data of constituent materials.) [Toner]

Skin sensitization
(mouse) Non-Sensitiser (Estimated from other products containing same materials.) [Toner]

Mutagenicity
Ames Test is Negative. [Toner]
Ames Test is Negative. (Estimated from the data of constituent materials.) [Carrier]

Reproductive Toxicity
Information of Ingredients:
No mutagen, according to MAK, TRGS905 and (EC)No 1272/2008 AnnexVI 1 table3.2.

Carcinogenicity
Information of Ingredients:
No carcinogen or potential carcinogen (except titanium dioxide) according to IARC, Japan Association on Industrial Health, ACGIH, EHPA, U.S. NTP, MAK, California Proposition 65, IARC, and (EC)No 1272/2008 AnnexVI No 12/2/2008 AnnexVI 1 table3.2.

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Section 15. Regulatory Information

US Information
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EU Information
Symbol & Indication: Label information according to the Directives 67/548/EEC and 1999/45/EC)
K+Phrase: Not required
S-Phrase: Not required
Special markings: Not required
Hazardous ingredients for labeling: None

Canada Information
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5. NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide DRAFT".
6. ISO 11014-1 Safety data sheet for chemical products.

<Abbreviation>
ACGIH: American Conference of Governmental Industrial Hygienists
OSHA: Occupational Safety and Health Administration
IARC: International Agency for Research on Cancer
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NTP: National Toxicology Program
MAK: Maximale Arbeitsplatzkonzentrationen unter Deutsche Forschungsgemeinschaft
Proposition 65: California Safe Drinking Water and Toxic Enforcement Act of 1986
THGS909: Technische Regel für Gefahrstoffe (Deutsche)
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