

## Section 1. Chemical Product and Company Identification

**Product Name**                    **Black Toner For TASKalfa 306ci**  
**Manufacturer**                    KYOCERA Document Solutions Inc.  
**Address**                            KYOCERA Document Solutions Canada, Ltd.  
     6120 Kestrel Road  
     Mississauga, ON. L5T 1S8  
**Telephone Number**            (905) 670-4425  
**Date**                                 February 03, 2016

## 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 <sup>3</sup> (TWA)	3.5mg/m <sup>3</sup> (TWA)	Group2B	Not Listed	5-10
(CAS No. 7631-86-9)      Amorphous silica	80mg/m <sup>3</sup> /%SiO <sub>2</sub> (TWA)	Not Listed	Group3	Not Listed	1-5
(CAS No. 13463-67-7)    Titanium dioxide	15mg/m <sup>3</sup> (TWA)	10mg/m <sup>3</sup> (TWA)	Group2B	Not Listed	<1
(Non Hazardous Ingredients)					
Polyester resin					70-80
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 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, CO <sub>2</sub> or Dry Chemical Extinguisher.
Fire Fighting Procedure	Pay attention not to blow away toner. 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>(2)</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	Black
Odor	Odorless
pH	N.A.
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/cm <sup>3</sup>
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 <sub>50</sub> >2,000mg/kg (Estimated from other products containing same materials.)
Acute dermal toxicity	(rat)LD <sub>50</sub> >2,000mg/kg (Estimated from Acute oral toxicity for same product.)
Acute inhalation toxicity	(rat)LC <sub>50</sub> (4hr)>5.0mg/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) Non irritant (Estimated from other products containing same materials.)
Skin sensitization	(mouse)Non-Sensitiser (Estimated from other products containing same materials.)
Mutagenicity	Ames Test is Negative.
Information of Ingredients:	No mutagen, according to MAK, TRGS905 and (EC) No 1272/2008 AnnexVI Table 3.2.
Reproductive Toxicity	
Information of Ingredients:	No reproductive toxicant, according to MAK, 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, TRGS905 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.<sup>(4)</sup> The evaluation of carbon black is based upon the development of lung tumors in rat receiving chronic inhalation exposures to free carbon black at level that induce particle overload of the lung.

The studies performed in animal models other than rats have not demonstrated an association between carbon black and lung tumors. Moreover, a two-year's cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats.<sup>(1)</sup>

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).<sup>(5)</sup> The inhalation of excessive titanium dioxide does not occur in normal use of this product. Also, epidemiological studies to date have not revealed any evidence of the relation between occupational exposure to titanium dioxide and respiratory tract diseases.

### Chronic effects

In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16mg/m<sup>3</sup>) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m<sup>3</sup>) exposure group.<sup>(1)</sup> But no pulmonary change was reported in the lowest (1mg/m<sup>3</sup>) 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 ingredients in this product comply with order under TSCA.

### EU Information

Classification according to Regulation (EC) No 1272/2008 (CLP)	Not classified as hazardous mixture
Labelling according to Regulation (EC) No 1272/2008 (CLP).	Not Applicable

### Canada Information

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

## Section 16. Other Information

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

### <Reference>

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

### <Abbreviation>

ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration
TWA	Time Weighted Average
IARC	International Agency for Research on Cancer
EPA	Environmental Protection Agency (USA)
NTP	National Toxicology Program
MAK	Maximale Arbeitsplatzkonzentrationen unter Deutsche Forschungsgemeinschaft
Proposition 65	CA Safe Drinking Water and Toxic Enforcement Act of 1986.
TRGS905	Technische Regeln für Gefahrstoffe (Deutsche)
UN	United Nations
TSCA	Toxic Substances Control Act (USA)
WHMIS	Workplace Hazardous Materials Information System(Canada)

\*\*\*\*\*  
**End of MSDS**  
\*\*\*\*\*

## Section 1. Chemical Product and Company Identification

**Product Name**                    **Cyan Toner For TASKalfa 306ci**  
**Manufacturer**                    KYOCERA Document Solutions Inc.  
**Address**                            KYOCERA Document Solutions Canada, Ltd.  
     6120 Kestrel Road  
     Mississauga, ON. L5T 1S8  
**Telephone Number**            (905) 670-4425  
**Date**                                 February 03, 2016

## 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 <sup>3</sup> /%SiO <sub>2</sub> (TWA)	Not Listed	Group3	Not Listed	1-5
(CAS No. 13463-67-7)    Titanium dioxide	15mg/m <sup>3</sup> (TWA)	10mg/m <sup>3</sup> (TWA)	Group2B	Not Listed	<1
(Non Hazardous Ingredients)					
Polyester resin (2 kinds)					75-85
Organic pigment					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 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, CO <sub>2</sub> or Dry Chemical Extinguisher.
Fire Fighting Procedure	Pay attention not to blow away toner. 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 to blow 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>(2)</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 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	100-120 <sup>0</sup> 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/cm <sup>3</sup>
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 <sub>50</sub> >2,000mg/kg (Estimated from other products containing same materials.)
Acute dermal toxicity	(rat)LD <sub>50</sub> >2,000mg/kg (Estimated from Acute oral toxicity for same product.)
Acute inhalation toxicity	(rat)LC <sub>50</sub> (4hr)>5.0mg/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) Non irritant (Estimated from other products containing same materials.)
Skin sensitization	(mouse)Non-Sensitiser (Estimated from other products containing same materials.)
Mutagenicity	Ames Test is Negative.
Information of Ingredients:	No mutagen, according to MAK, TRGS905 and (EC) No 1272/2008 AnnexVI Table 3.2.
Reproductive Toxicity	No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and (EC)No 1272/2008 AnnexVI Table3.2.
Information of Ingredients:	
Carcinogenicity	No carcinogen or potential carcinogen (except titanium dioxide), according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, MAK,
Information of Ingredients:	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.<sup>(4)</sup> In the animal chronic inhalation studies for titanium dioxide, the lung tumor was observed only rats. It is estimated that this is attributed to the overload of rat's lung clearance mechanism (overload phenomenon).<sup>(5)</sup>

The inhalation of excessive titanium dioxide does not occur in normal use of this product. Also, epidemiological studies to date have not revealed any evidence of the relation between occupational exposure to titanium dioxide and respiratory tract diseases.

### Chronic effects

In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16mg/m<sup>3</sup>) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m<sup>3</sup>) exposure group.<sup>(1)</sup> But no pulmonary change was reported in the lowest (1mg/m<sup>3</sup>) 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 ingredients in this product comply with order under TSCA.

### EU Information

Classification according to Regulation (EC) No 1272/2008 (CLP)

Not classified as hazardous mixture

Labelling according to Regulation (EC) No 1272/2008 (CLP).

Not Applicable

### Canada Information

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

## Section 16. Other Information

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

### <Reference>

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

### <Abbreviation>

ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration
TWA	Time Weighted Average
IARC	International Agency for Research on Cancer
EPA	Environmental Protection Agency (USA)
NTP	National Toxicology Program
MAK	Maximale Arbeitsplatzkonzentrationen unter Deutsche Forschungsgemeinschaft
Proposition 65	CA Safe Drinking Water and Toxic Enforcement Act of 1986.
TRGS905	Technische Regeln für Gefahrstoffe (Deutsche)
UN	United Nations
TSCA	Toxic Substances Control Act (USA)
WHMIS	Workplace Hazardous Materials Information System(Canada)

\*\*\*\*\*

**End of MSDS**

\*\*\*\*\*



## Section 1. Chemical Product and Company Identification

**Product Name**                    **Magenta Toner For TASKalfa 306ci**  
**Manufacturer**                    KYOCERA Document Solutions Inc.  
**Address**                            KYOCERA Document Solutions Canada, Ltd.  
     6120 Kestrel Road  
     Mississauga, ON. L5T 1S8  
**Telephone Number**            (905) 670-4425  
**Date**                                 February 03, 2016

## 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 <sup>3</sup> /%SiO <sub>2</sub> (TWA)	Not Listed	Group3	Not Listed	1-5
(CAS No. 13463-67-7)    Titanium dioxide	15mg/m <sup>3</sup> (TWA)	10mg/m <sup>3</sup> (TWA)	Group2B	Not Listed	<1
(Non Hazardous Ingredients)					
Polyester resin (2 kinds)					75-85
Organic pigment					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 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, CO <sub>2</sub> or Dry Chemical Extinguisher.
Fire Fighting Procedure	Pay attention not to blow away toner. 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 to blow 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>(2)</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 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
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.cm <sup>3</sup>
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 <sub>50</sub> >2,000mg/kg (Estimated from other products containing same materials.)
Acute dermal toxicity	(rat)LD <sub>50</sub> >2,000mg/kg (Estimated from Acute oral toxicity for same product.)
Acute inhalation toxicity	(rat)LC <sub>50</sub> (4hr)>5.0mg/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) Non irritant (Estimated from other products containing same materials.)
Skin sensitization	(mouse)Non-Sensitiser (Estimated from other products containing same materials.)
Mutagenicity	Ames Test is Negative.
Information of Ingredients:	No mutagen, according to MAK, TRGS905 and (EC) No 1272/2008 AnnexVI Table 3.2.
Reproductive Toxicity	No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and (EC)No 1272/2008 AnnexVI Table3.2.
Information of Ingredients:	
Carcinogenicity	No carcinogen or potential carcinogen (except titanium dioxide), according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, MAK,
Information of Ingredients:	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.<sup>(4)</sup> 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).<sup>(5)</sup>

The inhalation of excessive titanium dioxide does not occur in normal use of this product. Also, epidemiological studies to date have not revealed any evidence of the relation between occupational exposure to titanium dioxide and respiratory tract diseases.

### Chronic effects

In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16mg/m<sup>3</sup>) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m<sup>3</sup>) exposure group.<sup>(1)</sup> But no pulmonary change was reported in the lowest (1mg/m<sup>3</sup>) 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 ingredients in this product comply with order under TSCA.

### EU Information

Classification according to Regulation (EC) No 1272/2008 (CLP)	Not classified as hazardous mixture
Labelling according to Regulation (EC) No 1272/2008 (CLP).	Not Applicable

### Canada Information

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

## Section 16. Other Information

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

### <Reference>

- (1) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats H. Muhle et. al Fundamental and Applied Toxicology 17:280-299(1991)  
Lung Clearance and Retention of Toner, Utilizing a Tracer Technique, during Chronic Inhalation Exposure in Rats B Bellmann Fundamental and Applied Toxicology 17:300-313(1991)
- (2) ACGIH TLV (Threshold Limit Values)
- (3) OSHA PEL (Permissible Exposure Limits)
- (4) IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol.93.
- (5) NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide DRAFT".  
\*ISO 11014-1 Safety data sheet for chemical products.

### <Abbreviation>

ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration
TWA	Time Weighted Average
IARC	International Agency for Research on Cancer
EPA	Environmental Protection Agency (USA)
NTP	National Toxicology Program
MAK	Maximale Arbeitsplatzkonzentrationen unter Deutsche Forschungsgemeinschaft
Proposition 65	CA Safe Drinking Water and Toxic Enforcement Act of 1986.
TRGS905	Technische Regeln für Gefahrstoffe (Deutsche)
UN	United Nations
TSCA	Toxic Substances Control Act (USA)
WHMIS	Workplace Hazardous Materials Information System(Canada)

\*\*\*\*\*

End of MSDS

\*\*\*\*\*

## Section 1. Chemical Product and Company Identification

**Product Name**                    **Yellow Toner For TASKalfa 306ci**  
**Manufacturer**                    KYOCERA Document Solutions Inc.  
**Address**                            KYOCERA Document Solutions Canada, Ltd.  
     6120 Kestrel Road  
     Mississauga, ON. L5T 1S8  
**Telephone Number**            (905) 670-4425  
**Date**                                 February 03, 2016

## 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 <sup>3</sup> /%SiO <sub>2</sub> (TWA)	Not Listed	Group3	Not Listed	1-5
(CAS No. 13463-67-7)    Titanium dioxide	15mg/m <sup>3</sup> (TWA)	10mg/m <sup>3</sup> (TWA)	Group2B	Not Listed	<1
(Non Hazardous Ingredients)					
Polyester resin (2 kinds)					75-85
Organic pigment					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 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, CO <sub>2</sub> or Dry Chemical Extinguisher.
Fire Fighting Procedure	Pay attention not to blow away toner. 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 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 an dark place keeping away from fire. Keep away from children.

---

## Section 8. Exposure Controls/Personal Protection

---

### Control Parameters<Reference Data>

ACGIH TLV <sub>(2)</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 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°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/cm <sup>3</sup>
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 <sub>50</sub> >2,000mg/kg (Estimated from other products containing same materials.)
Acute dermal toxicity	(rat)LD <sub>50</sub> >2,000mg/kg (Estimated from Acute oral toxicity for same product.)
Acute inhalation toxicity	(rat)LC <sub>50</sub> (4hr)>5.0mg/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) Non-irritant (Estimated from other products containing same materials.)
Skin sensitization	(mouse)Non-Sensitiser (Estimated from other products containing same materials.)
Mutagenicity	Ames Test is Negative.
Information of Ingredients:	No mutagen, according to MAK, TRGS905 and (EC) No 1272/2008 AnnexVI Table 3.2.
Reproductive Toxicity	No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and (EC)No 1272/2008 AnnexVI Table3.2.
Information of Ingredients:	
Carcinogenicity	No carcinogen or potential carcinogen (except titanium dioxide), according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, MAK,
Information of Ingredients:	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.<sup>(4)</sup> 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).<sup>(5)</sup>

The inhalation of excessive titanium dioxide does not occur in normal use of this product. Also, epidemiological studies to date have not revealed any evidence of the relation between occupational exposure to titanium dioxide and respiratory tract diseases.

### Chronic effects

In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16mg/m<sup>3</sup>) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m<sup>3</sup>) exposure group. But no pulmonary change was reported in the lowest (1mg/m<sup>3</sup>) 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 ingredients in this product comply with order under TSCA.

### EU Information

Classification according to Regulation (EC) No 1272/2008 (CLP)  
Labelling according to Regulation (EC) No 1272/2008 (CLP).

Not classified as hazardous mixture  
Not Applicable

### Canada Information

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

## Section 16. Other Information

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

### <Reference>

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

### <Abbreviation>

ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration
TWA	Time Weighted Average
IARC	International Agency for Research on Cancer
EPA	Environmental Protection Agency (USA)
NTP	National Toxicology Program
MAK	Maximale Arbeitsplatzkonzentrationen unter Deutsche Forschungsgemeinschaft
Proposition 65	CA Safe Drinking Water and Toxic Enforcement Act of 1986.
TRGS905	Technische Regeln für Gefahrstoffe (Deutsche)
UN	United Nations
TSCA	Toxic Substances Control Act (USA)
WHMIS	Workplace Hazardous Materials Information System(Canada)

End of MSDS



## Section 1. Chemical Product and Company Identification

**Product Name**                    **Black Developer For TASKalfa 306ci**  
**Manufacturer**                    KYOCERA Document Solutions Inc.  
**Address**                            KYOCERA Document Solutions Canada, Ltd.  
     6120 Kestrel Road  
     Mississauga, ON. L5T 1S8  
**Telephone Number**            (905) 670-4425  
**Date**                                 February 03, 2016

## Section 2. Composition/Information on Ingredients

Hazardous Components (Chemical Identity, Common Name/s )	OSHA PEL SubpartZ	ACGIH TLV	IARC	NTP	Weight%
(CAS No. 66402-68-4)    Ferrite (Ferrite including manganese)	5mg/m <sup>3</sup>	0.2mg/m <sup>3</sup> (TWA)**	Not Listed	Not Listed	85-95***
(CAS No. 1333-86-4)    Carbon Black	3.5mg/m <sup>3</sup> (TWA)	3.5mg/m <sup>3</sup> (TWA)	Group2B	Not Listed	<1
(Non Hazardous Ingredients)					
Polyester resin					5-10

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

## Section 3. Hazards Identification

**Most Important Hazards**        None  
**Specific Hazards**                None

**Other Information on Hazards:**

**Potential Health Effects:**

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

---

## Section 4. First Aid Measures

---

Inhalation	Remove from exposure to fresh air and gargle with plenty of water. Seek medical treatment in case of such a symptom as coughing.
Skin Contact	Wash with soap and water. If irritation does occur, seek medical treatment.
Eye Contact	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, CO <sub>2</sub> or Dry Chemical Extinguisher.
Fire Fighting Procedures	Pay attention not to blow away developer. Drain water off around and decrease atmosphere temperature to extinguish the fire.

---

## Section 6. Accidental Release Measures

---

Personal Precautions	Avoid inhalation, ingestion, eye and skin contact in case of accidental developer release.
Environmental Precautions	Do not release into drains and surface water.
Method for Cleaning Up	Gather the released developer, not blowing away, and wipe up with a wet cloth.

---

## Section 7. Handling and Storage

---

Handling	Keep the container tightly closed. Keep away from children.
Storage	Keep the container tightly closed and store in a cool, dry and dark place keeping away from fire. Keep away from children.

---

## Section 8. Exposure Controls/Personal Protection

---

### Control Parameters<Reference Data>

ACGIH TLV <sub>(2)</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	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 <sup>3</sup>
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 <sub>50</sub> >2,000mg/kg(Estimated from other products containing same materials.)[Toner] (rat)LD <sub>50</sub> >2,500mg/kg(Estimated from the data of constituent materials.)[Carrier]
Acute dermal toxicity	(rat)LD <sub>50</sub> >2,000mg/kg(Estimated from Acute oral toxicity for same product.)[Toner] (rat)LD <sub>50</sub> >2,000mg/kg(Estimated from the data of constituent materials.)[Carrier]
Acute inhalation toxicity	(rat)LC <sub>50</sub> (4 hr)>5.0mg/l(Estimated from other products containing same materials.)[Toner]
Acute eye irritation	(rabbit) Minimal irritant (Estimated from other products containing same materials.)[Toner]
Acute skin irritation	(rabbit) Non-irritant(Estimated from other products containing same materials.) [Toner] (rabbit) Non irritant (Estimated from the data of constituent materials.)[Carrier]
Skin sensitization	(mouse)Non-Sensitizer(Estimated from other products containing same materials.) [Toner] (guinea pig)Non-Sensitizer(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	No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and (EC)No 1272/2008 AnnexVI Table3.2.
Information of Ingredients	
Carcinogenicity	No carcinogen or potential carcinogen (except carbon black) 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.
Information of Ingredients	

The IARC reevaluated carbon black as a Group 2B carcinogen (possibly carcinogenic to humans) as the result of inhalation exposure test in rats. But, oral/skin test does not show carcinogenicity.<sup>(4)</sup> The evaluation of carbon black is based upon the development of lung tumors in rat receiving chronic inhalation exposures to free carbon black at level that induce particle overload of the lung.

The studies performed in animal models other than rats have not demonstrated an association between carbon black and lung tumors. Moreover, a two-year's cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats.<sup>(1)</sup>

### 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<sup>3</sup>) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m<sup>3</sup>) exposure group.<sup>(1)</sup> But no pulmonary change was reported in the lowest (1mg/m<sup>3</sup>) 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 ingredients in this product comply with order under TSCA.

### EU Information

Classification according to Regulation (EC) No 1272/2008 (CLP)	Not classified as hazardous mixture
Labelling according to Regulation (EC) No 1272/2008 (CLP).	Not Applicable

### Canada Information

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

## Section 16. Other Information

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

### <Reference>

- (1) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats H. Muhle et. al Fundamental and Applied Toxicology 17.280-299(1991)  
Lung Clearance and Retention of Toner, Utilizing a Tracer Technique, during Chronic Inhalation Exposure in Rats B Bellmann Fundamental and Applied Toxicology 17.300-313(1991)
  - (2) ACGIH TLV (Threshold Limit Values)
  - (3) OSHA PEL (Permissible Exposure Limits)
  - (4) IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol.93.
- \*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
Proposition 65	CA Safe Drinking Water and Toxic Enforcement Act of 1986.
TRGS905	Technische Regeln für Gefahrstoffe (Deutsche)
UN	United Nations
TSCA	Toxic Substances Control Act (USA)
WHMIS	Workplace Hazardous Materials Information System(Canada)

\*\*\*\*\*  
**End of MSDS**  
 \*\*\*\*\*

## Section 1. Chemical Product and Company Identification

**Product Name**                    **Cyan Developer For TASKalfa 306ci**  
**Manufacturer**                    KYOCERA Document Solutions Inc.  
**Address**                            KYOCERA Document Solutions Canada, Ltd.  
     6120 Kestrel Road  
     Mississauga, ON. L5T 1S8  
**Telephone Number**            (905) 670-4425  
**Date**                                 February 03, 2016

## Section 2. Composition/Information on Ingredients

Hazardous Components (Chemical Identity, Common Name/s )	OSHA PEL SubpartZ	ACGIH TLV	IARC	NTP	Weight%
(CAS No. 66402-68-4)    Ferrite (Ferrite including manganese)	5mg/m <sup>3</sup> *	0.2mg/m <sup>3</sup> (TWA)**	Not Listed	Not Listed	85-95***
(Non Hazardous Ingredients)					
Polyester resin					5-10

\*(Ceiling)(Manganese compounds (as Mn))

\*\* (Manganese and inorganic compounds, as Mn)

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

## Section 3. Hazards Identification

**Most Important Hazards**            None

**Specific Hazards**                    None

**Other Information on Hazards:**

Potential Health Effects:

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

## Section 4. First Aid Measures

Inhalation	Remove from exposure to fresh air and gargle with plenty of water. Seek medical treatment in case of such a symptom as coughing.
Skin Contact	Wash with soap and water. If irritation does occur, seek medical treatment.
Eye Contact	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, CO <sub>2</sub> or Dry Chemical Extinguisher.
Fire Fighting Procedures	Pay attention not to blow away developer. Drain water off around and decrease atmosphere temperature to extinguish the fire.

## Section 6. Accidental Release Measures

Personal Precautions	Avoid inhalation, ingestion, eye and skin contact in case of accidental developer release.
Environmental Precautions	Do not release into drains and surface water.
Method for Cleaning Up	Gather the released developer, not blowing away, and wipe up with a wet cloth.

## Section 7. Handling and Storage

Handling	Keep the container tightly closed. Keep away from children.
Storage	Keep the container tightly closed and store in a cool, dry and dark place keeping away from fire. Keep away from children.

## Section 8. Exposure Controls/Personal Protection

Control Parameters<Reference Data>	
ACGIH TLV <sub>(2)</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	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 <sup>3</sup>
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 <sub>50</sub> >2,000mg/kg(Estimated from other products containing same materials.)(Toner) (rat)LD <sub>50</sub> >2,500mg/kg(Estimated from the data of constituent materials.)(Carrier)
Acute dermal toxicity	(rat)LD <sub>50</sub> >2,000mg/kg(Estimated from Acute oral toxicity for same product.)(Toner) (rat)LD <sub>50</sub> >2,000mg/kg(Estimated from the data of constituent materials.)(Carrier)
Acute inhalation toxicity	(rat)LC <sub>50</sub> (4 hr)>5.0mg/l(Estimated from other products containing same materials.) (Estimated from other products containing same materials.)(Toner)
Acute eye irritation	(rabbit) Minimal irritant(Estimated from other products containing same materials.) [Toner]
Acute skin irritation	(rabbit) Non-irritant(Estimated from other products containing same materials.)(Toner) (rabbit) Non irritant(Estimated from the data of constituent materials.) [Carrier]
Skin sensitization	(mouse)Non-Sensitizer(Estimated from other products containing same materials.) [Toner] (guinea pig)Non-Sensitizer(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 1272/20018 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 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.
<i>Chronic effects</i>	
	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 <sup>3</sup> ) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m <sup>3</sup> ) exposure group. <sup>(1)</sup> But no pulmonary change was reported in the lowest (1mg/m <sup>3</sup> ) 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 ingredients in this product comply with order under TSCA.

### EU Information

Classification according to Regulation (EC) No 1272/2008 (CLP)

Not classified as hazardous mixture

Labelling according to Regulation (EC) No 1272/2008 (CLP).

Not Applicable

### Canada Information

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

## Section 16. Other Information

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

### <Reference>

- (1) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats H. Muhle et. al Fundamental and Applied Toxicology 17.280-299(1991)  
Lung Clearance and Retention of Toner, Utilizing a Tracer Technique, during Chronic Inhalation Exposure in Rats B Bellmann Fundamental and Applied Toxicology 17.300-313(1991)
  - (2) ACGIH TLV (Threshold Limit Values)
  - (3) OSHA PEL (Permissible Exposure Limits)
- \*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
Proposition 65	CA Safe Drinking Water and Toxic Enforcement Act of 1986.
TRGS905	Technische Regeln für Gefahrstoffe (Deutsche)
UN	United Nations
TSCA	Toxic Substances Control Act (USA)
WHMIS	Workplace Hazardous Materials Information System(Canada)

\*\*\*\*\*

**End of MSDS**

\*\*\*\*\*



## Section 1. Chemical Product and Company Identification

**Product Name**                    **Magenta Developer For TASKalfa 306ci**  
**Manufacturer**                    KYOCERA Document Solutions Inc.  
**Address**                            KYOCERA Document Solutions Canada, Ltd.  
     6120 Kestrel Road  
     Mississauga, ON. L5T 1S8  
**Telephone Number**            (905) 670-4425  
**Date**                                    February 03, 2016

## Section 2. Composition/Information on Ingredients

Hazardous Components (Chemical Identity, Common Name/s )	OSHA PEL SubpartZ	ACGIH TLV	IARC	NTP	Weight%
(CAS No. 66402-68-4) Ferrite (Ferrite including manganese)	5mg/m <sup>3</sup> *	0.2mg/m <sup>3</sup> (TWA)**	Not Listed	Not Listed	85-95***
(Non Hazardous Ingredients)					
Polyester resin					5-10

\*(Ceiling)(Manganese compounds (as Mn))

\*\* (Manganese and inorganic compounds, as Mn)

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

## Section 3. Hazards Identification

**Most Important Hazards**            None

**Specific Hazards**                    None

**Other Information on Hazards:**

Potential Health Effects:

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

---

## Section 4. First Aid Measures

---

Inhalation	Remove from exposure to fresh air and gargle with plenty of water. Seek medical treatment in case of such a symptom as coughing.
Skin Contact	Wash with soap and water. If irritation does occur, seek medical treatment.
Eye Contact	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, CO <sub>2</sub> or Dry Chemical Extinguisher.
Fire Fighting Procedures	Pay attention not to blow away developer. Drain water off around and decrease atmosphere temperature to extinguish the fire.

---

## Section 6. Accidental Release Measures

---

Personal Precautions	Avoid inhalation, ingestion, eye and skin contact in case of accidental developer release.
Environmental Precautions	Do not release into drains and surface water.
Method for Cleaning Up	Gather the released developer, not blowing away, and wipe up with a wet cloth.

---

## Section 7. Handling and Storage

---

Handling	Keep the container tightly closed. Keep away from children.
Storage	Keep the container tightly closed and store in a cool, dry and dark place keeping away from fire. Keep away from children.

---

## Section 8. Exposure Controls/Personal Protection

---

Control Parameters<Reference Data>	
ACGIH TLV <sub>(2)</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 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 ingredients in this product comply with order under TSCA.

### EU Information

Classification according to Regulation (EC) No 1272/2008 (CLP)

Not classified as hazardous mixture

Labelling according to Regulation (EC) No 1272/2008 (CLP).

Not Applicable

### Canada Information

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

## Section 16. Other Information

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

### <Reference>

- (1) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats H. Muhle et. al Fundamental and Applied Toxicology 17.280-299(1991)  
Lung Clearance and Retention of Toner, Utilizing a Tracer Technique, during Chronic Inhalation Exposure in Rats B Bellmann Fundamental and Applied Toxicology 17.300-313(1991)
  - (2) ACGIH TLV (Threshold Limit Values)
  - (3) OSHA PEL (Permissible Exposure Limits)
- \*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
Proposition 65	CA Safe Drinking Water and Toxic Enforcement Act of 1986.
TRGS905	Technische Regeln für Gefahrstoffe (Deutsche)
UN	United Nations
TSCA	Toxic Substances Control Act (USA)
WHMIS	Workplace Hazardous Materials Information System(Canada)

\*\*\*\*\*  
**End of MSDS**  
\*\*\*\*\*

## Section 1. Chemical Product and Company Identification

**Product Name**                    **Yellow Developer For TASKalfa 306ci**  
**Manufacturer**                    KYOCERA Document Solutions Inc.  
**Address**                            KYOCERA Document Solutions Canada, Ltd.  
     6120 Kestrel Road  
     Mississauga, ON. L5T 1S8  
**Telephone Number**            (905) 670-4425  
**Date**                                 February 03, 2016

## Section 2. Composition/Information on Ingredients

Hazardous Components (Chemical Identity, Common Name/s )	OSHA PEL SubpartZ	ACGIH TLV	IARC	NTP	Weight%
(CAS No. 66402-68-4) Ferrite (Ferrite including manganese)	5mg/m <sup>3</sup> *	0.2mg/m <sup>3</sup> (TWA)**	Not Listed	Not Listed	85-95***
(Non Hazardous Ingredients)					
Polyester resin					5-10

\*(Ceiling)(Manganese compounds (as Mn))

\*\* (Manganese and inorganic compounds, as Mn)

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

## Section 3. Hazards Identification

Most Important Hazards            None

Specific Hazards                    None

Other Information on Hazards:

Potential Health Effects:

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

---

## Section 4. First Aid Measures

---

Inhalation	Remove from exposure to fresh air and gargle with plenty of water. Seek medical treatment in case of such a symptom as coughing.
Skin Contact	Wash with soap and water. If irritation does occur, seek medical treatment.
Eye Contact	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, CO <sub>2</sub> or Dry Chemical Extinguisher.
Fire Fighting Procedures	Pay attention not to blow away developer. Drain water off around and decrease atmosphere temperature to extinguish the fire.

---

## Section 6. Accidental Release Measures

---

Personal Precautions	Avoid inhalation, ingestion, eye and skin contact in case of accidental developer release.
Environmental Precautions	Do not release into drains and surface water.
Method for Cleaning Up	Gather the released developer, not blowing away, and wipe up with a wet cloth.

---

## Section 7. Handling and Storage

---

Handling	Keep the container tightly closed. Keep away from children.
Storage	Keep the container tightly closed and store in a cool, dry and dark place keeping away from fire. Keep away from children.

---

## Section 8. Exposure Controls/Personal Protection

---

Control Parameters<Reference Data>	
ACGIH TLV <sub>(2)</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	Yellow
Odor	Odorless
pH	N.A.
Melting Point	N.A.
Explosion Properties	Dust explosion is improbable under normal use. Experimental explosiveness of toner is classified into the same rank such kind of powder as flour, dry milk and resin powder according to the pressure rising speed.
Density	3.5-5.0g/cm <sup>3</sup>
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 <sub>50</sub> >2,000mg/kg(Estimated from other products containing same materials.)(Toner) (rat)LD <sub>50</sub> >2,500mg/kg(Estimated from the data of constituent materials.)(Carrier)
Acute dermal toxicity	(rat)LD <sub>50</sub> >2,000mg/kg(Estimated from Acute oral toxicity for same product.)(Toner) (rat)LD <sub>50</sub> >2,000mg/kg(Estimated from the data of constituent materials.)(Carrier)
Acute inhalation toxicity	(rat)LC <sub>50</sub> (4 hr)>5.0mg/l(Estimated from other products containing same materials.)(Toner)
Acute eye irritation	(rabbit) Minimal irritant(Estimated from other products containing same materials.)(Toner)
Acute skin irritation	(rabbit) Non-irritant(Estimated from other products containing same materials.)(Toner) (rabbit) Non-irritant(Estimated from the data of constituent materials.)(Carrier)
Skin sensitization	(mouse)Non-Sensitizer(Estimated from other products containing same materials.)(Toner) (guinea pig)Non-Sensitizer(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 EU Directive No 1272/2008 AnnexVI Table3.2.
Carcinogenicity	
Information of Ingredients	No carcinogen or potential carcinogen according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, MAK, California Proposition 65, TRGS905 and (EC)No 1272/2008 AnnexVI Table 3.2.
<i>Chronic effects</i>	
	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 <sup>3</sup> ) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m <sup>3</sup> ) exposure group. <sup>(1)</sup> But no pulmonary change was reported in the lowest (1mg/m <sup>3</sup> ) 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 ingredients in this product comply with order under TSCA.

### EU Information

Classification according to Regulation (EC) No 1272/2008 (CLP)

Not classified as hazardous mixture

Labelling according to Regulation (EC) No 1272/2008 (CLP).

Not Applicable

### Canada Information

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

## Section 16. Other Information

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

### <Reference>

- (1) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats H. Muhle et. al Fundamental and Applied Toxicology 17.280-299(1991)  
Lung Clearance and Retention of Toner, Utilizing a Tracer Technique, during Chronic Inhalation Exposure in Rats B Bellmann Fundamental and Applied Toxicology 17.300-313(1991)
  - (2) ACGIH TLV (Threshold Limit Values)
  - (3) OSHA PEL (Permissible Exposure Limits)
- \*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
Proposition 65	CA Safe Drinking Water and Toxic Enforcement Act of 1986.
TRGS905	Technische Regeln für Gefahrstoffe (Deutsche)
UN	United Nations
TSCA	Toxic Substances Control Act (USA)
WHMIS	Workplace Hazardous Materials Information System(Canada)

\*\*\*\*\*

End of MSDS

\*\*\*\*\*