

Section 1. Chemical Product and Company Identification

Product Name **Black Toner For FS-4100DN**
Manufacturer KYOCERA Document Solutions Inc.
Address KYOCERA Document Solutions Canada, Ltd.
 6120 Kestrel Road,
 Mississauga, ON. L5T 1S8.
Telephone Number 905-696-2504
Date February 15, 2017

Section 2. Composition/Information on Ingredients

<i>Hazardous Components (Chemical Identity, Common Name/s)</i>	<i>OSHA PEL SubpartZ</i>	<i>ACGIH TLV</i>	<i>IARC</i>	<i>NTP</i>	<i>Weight%</i>
(CAS No. 7631-86-9) Amorphous Silica	80mg/m ³ /%SiO ₂ (TWA)	Not Listed	Group3	Not Listed	<2
(CAS No. 13463-67-7) Titanium dioxide	15mg/m ³ (Total dust)(TWA)	10mg/m ³ (TWA)	Group2B	Not Listed	<1
<i>(Non Hazardous Ingredients)</i>					
Polyester resin					40-50
Magnetite					35-45
Wax					1-5

Section 3. Hazards Identification

Most Important Hazards: None

Specific Hazards: None

Other Information on Hazards: Potential Health Effects

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

Section 4. First Aid Measures

Inhalation Remove from exposure to fresh air. Gargle with plenty of water. Seek medical treatment if effects (such as coughing) occur.
 Skin Contact Wash with soap and water.
 Eye Contact Flush thoroughly with water and seek medical treatment if irritating.
 Ingestion Rinse out the mouth. Dilute stomach contents with several glasses of water and seek medical treatment if necessary.

Section 5. Fire Fighting Measures

Extinguishing Media	Water, (Sprinkle with water), Foam, Powder, CO ₂ or Dry Chemical Extinguisher.
Fire Fighting Procedure	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, do not blow away and wipe up with a wet cloth.

Section 7. Handling and Storage

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

Section 8. Exposure Controls/Personal Protection

Control Parameters<Reference Data>	
ACGIH TLV ₍₂₎ -TWA	Inhalable fraction 10mg/m ³ , Respirable fraction 3mg/m ³
OSHA PEL ₍₃₎ -TWA	Total dust 15mg/m ³ , Respirable fraction 5mg/m ³
Protective Equipment	
Respiratory Protection	None required under normal use.
Eye/Face Protection	None required under normal use.
Skin/Hand/Body Protection	None required under normal use.
Ventilation	Ventilator 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	125 ⁰ C
Explosion Properties	Dust explosion is improbable under normal use. Experimental explosiveness of toner is classified into the same rank such kind of powder as flour, dry milk and resin powder according to pressure rising speed.
Density	1.5-2.0 g/cm ³
Solubility	Almost insoluble in water.

Section 14. Transport Information

UN No.	None
UN Shipping Name	None
UN Classification	None
UN Packing Group	None
Special Precautions	None

Section 15. Regulatory Information

EU Information

Label information according to the Directives 67/548/EEC and 1999/45/EC.

Symbol and Indication	Not required.
R-Phrase	Not required.
S-Phrase	Not required.
Special Markings	Not required.
Hazardous ingredients for labeling:	None

US Information

All components in this product comply with order under TSCA.

Canada Information

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

Section 16. Other Information

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

<Reference>

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

<Abbreviation>

ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration
TWA	Time Weighted Average
IARC	International Agency for Research on Cancer
EPA	Environmental Protection Agency (USA)
NTP	National Toxicology Program
MAK	Maximale Arbeitsplatzkonzentrationen 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
