



MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name **Black Toner For FS-1120D**
 Manufacturer Kyocera Document Solutions
 Address Kyocera Document Solutions Canada, Ltd.
 6120 Kestrel Road
 Mississauga, Ontario L5T 1S8
 Telephone Number (905) 670-4425
 Date September 24, 2014

Section 2. Composition/Information on Ingredients

<i>Hazardous Components (Chemical Identity, Common Name/s)</i>	OSHA PEL Subpart Z	ACGIH TLV	IARC	NTP	Weight%
None					
<i>(Non Hazardous Ingredients)</i>					
Styrene acrylate copolymer 1					50-60
Magnetite					40-50
Styrene acrylate copolymer 2					1-5
Wax					1-5

Section 3. Hazards Identification

Most Important Hazards: None

Specific Hazards: None

Other Information on Hazards: Potential Health Effects

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

Section 4. First Aid Measures

First Aid Measures

Inhalation Remove from exposure to fresh air and 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.
 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	No special precaution.
Method for Cleaning Up	Gather the released toner not to blow away and to wipe up with a wet cloth.

Section 7. Handling and Storage

Handling	Keep the toner container tightly closed. Handle in accordance with good industrial hygiene and safety practices.
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(2008)-TWA	Inhalable fraction 10mg/m ³ , Respirable fraction 3mg/m ³
OSHA PEL(2006)-TWA	Total Dust 15mg/m ³ , Respirable fraction 5mg/m ³

Protective Equipment

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

Ventilation	Ventilator not required under normal use.
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Section 9. Physical and Chemical Properties

Appearance	
Physical state	Solid
Form	Fine powder
Color	Black
Odor	Odorless
pH	N.A.
Melting Point	140 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	1.5-2.0g/cm ³
Solubility	Almost insoluble in water.

Section 10. Stability and Reactivity

Stability / Reactivity Stable under normal use.
Hazardous Decomposition Products None

Section 11. Toxicological Information

Acute oral toxicity (rat)LD₅₀>2,500mg/kg (Estimated from other products containing same materials.)
Acute dermal toxicity (rat)LD₅₀>2,000mg/kg (Estimated from other products containing same materials.)
Acute inhalation toxicity (rat)LC₅₀(4hr)>5.13mg/l (Estimated from other products containing same materials.)
Acute eye irritation (rabbit)Mild 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.
Reproductive Toxicity No reproductive toxicant, according to MAK, CA Proposition 65, TRGS 905 and EU Directive(67/548/EEC).
Carcinogenicity No carcinogen or potential carcinogen, according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK, CA Proposition 65, TRGS 905 and EU Directive(67/548/EEC).
Chronic effects In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration(16mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle(4mg/m³) exposure group. But no pulmonary change was reported in the lowest(1mg/m³) exposure group, the most relevant level to potential human exposures.
Other Information None

Section 12. Ecological Information

No Data Available

Section 13. Disposal Considerations

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

Section 14. Transport Information

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

Section 15. Regulatory Information

EU Information

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

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

US Information

All components in this product comply with order under TSCA.

Canada Information

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

Section 16. Other Information

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

<Abbreviation>

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

End of MSDS
