

## Section 1. Chemical Product and Company Identification

**Black Toner For FS-4200DN Product Name** 

Manufacturer KYOCERA Document Solutions Inc.

KYOCERA Document Solutions America, Inc. Address

225 Sand Road

Fairfield, NJ 07004

(973)-808-8444 Telephone Number

Date October 24, 2012

## 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/m³/%SiO <sub>2</sub> (TWA)	Not Listed	Group3	Not Listed	<2
(CAS No. 13463-67-7)	Titanium dioxide	15mg/m³(Total dust)(TWA)	10mg/m <sup>3</sup> (TWA)	Group2B	Not Listed	<1
(Non Hazardous Ingredients)						
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 is not applicable route of entry for intended use. Ingestion Inhalation

Prolonged inhalation of excessive dusts may cause lung damage.

Use of this product, as intended, does not result in inhalation of excessive dusts. May cause transient eye irritation.

Eye Contact 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.

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

Ingestion Rinse out the mouth. Dilute stomach contents with several glasses of water and seek medical treatment if necessary.

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## 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 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<sub>(2)</sub>-TWA Inhalable fraction 10mg/m³, Respirable fraction 3mg/m³ OSHA PEL<sub>(3)</sub>-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 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° 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<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>(4 hr)>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-Sensitizer (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, CA Proposition 65, TRGS 905 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, CA Proposition 65, TRGS 905 and (EC)No 1272/2008 AnnexVI Table 3.2.

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. (4) 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).(5)

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. (1) 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, state and federal laws and regulations relating to waste (contact local or state environmental agency for specific rules).



## Section 14. Transport Information

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

## Section 15. Regulatory Information

#### **EU Information**

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

Symbol and Indication Not required.

R-Phrase Not required.

S-Phrase Not required.

Special Markings Not required.

Hazardous ingredients for labeling: None

#### **US** Information

All components in this product comply with order under TSCA.

#### Canada Information

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

#### Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability

whatsoever for the accuracy or completeness of the information contained herein.

#### <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)
- $\hbox{(4) IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93. } \\$
- (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 under 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)