

## Section 1. Chemical Product and Company Identification

**Product Name**                    **Black Toner For CS-3050,4050,5050**  
**Manufacturer**                    Kyocera Mita Corporation  
**Address**                            **COPYSTAR, A DIVISION OF**  
    Kyocera Mita America, Inc.  
    225 Sand Road  
    Fairfield, NJ 07004  
**Telephone Number**              (973)-808-8444  
**Date**                                 December 28, 2011

## Section 2. Composition/Information on Ingredients

<i>(Hazardous Ingredients)</i> <i>(Chemical Identity, Common Name/s )</i>	OSHA PEL Subpart Z	ACGIH TLV	IARC	NTP	Weight%
(CAS No. 13463-67-7)    Titanium dioxide	15mg/m <sup>3</sup> (Total dust)(TWA)	10mg/m <sup>3</sup> (TWA)	Group 2B	Not Listed	<1
<i>(Non Hazardous Ingredients)</i>					
Styrene acrylate copolymer 1					40-50
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 transient eye irritation.

Skin Contact    Unlikely to cause skin irritation.

## Section 4. First Aid Measures

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 <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. Wipe up with a wet cloth.

## Section 7. Handling and Storage

Handling	Keep the toner container tightly closed. Keep away from children.
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/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	Not required under normal use.
Eye/Face Protection	Not required under normal use.
Hand Protection	Not required under normal use.
Skin/Body Protection	Not 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	130 <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 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                          No data available.  
Acute dermal toxicity                        No data available.  
Acute inhalation toxicity                    No data available.  
Acute eye irritation                         No data available.  
Acute skin irritation                         No data available.  
Skin sensitization                          No data available.  
Mutagenicity  
Information of Ingredients                 Ames Test is Negative.  
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 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, 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

### <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 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)



End of MSDS

