Page 1 of 5 MSDS No.: TK17-KME-05



# MATERIAL SAFETY DATA SHEET

Date/ Revision: December 17, 2009

1. PRODUCT AND COMPANY IDENTIFICATION		
Product Name	: Black Toner for FS-1000, 1000+, 1010, 1050	
Manufacturer		
Name	: KYOCERA MITA CORPORATION	
Address	: 2-28, 1-Chome, Tamatsukuri, Chuo-ku, Osaka, Japan, 540-8585	
Supplier		
Name	: KYOCERA MITA Europe B.V	
Address	: Hoeksteen 40, 2132 MS Hoofddorp, Netherlands	
Telephone Number	: +31(0)20-6540000	

# 2. COMPOSITION/ INFORMATION ON INGREDIENTS

Substance or preparation ; Preparation

Ingredients;

Chemical Name(Common Name)	CAS No.	Weight %
Styrene acrylate copolymer 1	Confidential	50-60
Magnetite	Confidential	30-40
Styrene acrylate copolymer 2	Confidential	1-5
Titanium dioxide	13463-67-7	1-5
Carbon black	1333-86-4	1-5

#### 3. HAZARDS IDENTIFICATION

Most Important Hazards	: Not classified as dangerous.(1999/45/EC)
Specific Hazards	: None
Other Information on Ha	azards : Potential Health Effects
Ingestion	: Ingestion is not applicable route of entry for intended use.
Inhalation	<ul> <li>Prolonged inhalation of excessive dusts may cause lung damage.</li> <li>Use of this product, as intended, does not result in inhalation of excessive dusts.</li> </ul>
Eye Contact Skin Contact	: May cause eye irritation. : Unlikely to cause skin irritation.

Page 2 of 5 MSDS No.: TK17-KME-05

4. FIRST-AID MEASURES		
Inhalation	: Remove from exposure to fresh air and gargle with plenty of water.	
	Consult a doctor in case of such a symptoms as coughing.	
Skin Contact	: Wash with soap and water.	
Eye Contact	: Flush with water immediately and see a doctor if irritating.	
Ingestion	: Rinse out the mouth. Drink one or two glasses of water to dilute.	
	Seek medical treatment if necessary.	

#### **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.

# 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 wipe up with a wet cloth.

# 7. HANDLING AND STORAGE

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# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters <reference data="">:</reference>	

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES Appearance Form: Fine powder Color: Black Odor: Odorless Physical state: Solid pН : N.A. Melting Point : 140 °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. : 1.5-2.0 g/cm<sup>3</sup> Density Solubility : Almost insoluble in water

# **10. STABILITY AND REACTIVITY**

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

# **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	: Ames Test is Negative.
Reproductive Toxicity	: No reproductive toxicant, according to MAK, California
	Proposition 65, TRGS905 and EU Directive(67/548/EEC).
Carcinogenicity	: No carcinogen or potential carcinogen(except carbon black),
	according to IARC, Japan Association on Industrial Health, ACGIH,
	EPA, OSHA,NTP, ILO, MAK, California Proposition 65, TRGS 905
	and EU Directive(67/548/EEC).

In 1996, the IARC reevaluated carbon black as a Group2B carcinogen(possible human carcinogen). This evaluation is given to carbon black for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rat recieving chronic inhalation exposures to free carbon black at level that induce particle overload of the lung.

Studies performed in animal models other than rats have not demonstrated an association between carbon black and lung tumors. Moreover, a two-years cancer bioassay using

a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats.

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

# **12. ECOLOGICAL INFORMATION**

No data available.

# **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).

# **14. TRANSPORT INFORMATION**

UN No.	: None
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- UN Shipping Name : None
- UN Classification : None
- UN Packing Group : None

Special Precautions : None

#### **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.

# **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>

ACGIH	: American Conference of Governmental Industrial Hygienists
PEL	: Permissible Exposure Limit
OSHA	: Occupational Safety and Health Administration
TLV	: Threshold Limit Value
TWA	: Time Weighted Average
MAK	: MAK(Maximale Arbeitsplatzkonzentrationen) under Deutsche
	Forschungsgemeinschaft
TRGS	: Technische Regeln für Gefahrstoffe(Deutsche)
IARC	: International Agency for Research on Cancer
EPA	: Environmental Protection Agency(USA)
NTP	: National Toxicology Program
ILO	: International Labour Office
UN	: Nnited Nations
TSCA	: Toxic Substances Control Act(USA)
<reference></reference>	

#### <Reference>

- ISO 11014-1 Safety data sheet for chemical products
- Commission Directive 91/155/EEC and 2001/58/EC
- 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)