



MATERIAL SAFETY DATA SHEET

Date/ Revision: November 25, 2005

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : Black Toner for FS-3900DN
 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	-	50-60
Magnetite	-	30-40
Styrene acrylate copolymer -2	-	1-5
Titanium oxide	13463-67-7	1-5
Silica	7631-86-9	1-5

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.

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. : Wash with soap and water.

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, CO₂ 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 to wipe up with a wet cloth.

7. HANDLING AND STORAGE

Handling : Handle in accordance with good industrial hygiene and safety practices.

Storage : Keep the toner tightly closed and store in a cool, dry and dark place keeping away from fire.

Keep away from children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters<Reference Data>:

ACGIH TLV(2000) : Titanium oxide 10mg/m³, Silica 10mg/m³,
Total Dust 10mg/m³

OSHA PEL(1993) : Titanium oxide 15mg/m³, Silica 5mg/m³,
Total Dust 15mg/m³

Protective Equipment : Respiratory protection, eye protection, hand protection, skin and body protection are not required under normal use.

Ventilation : Ventilator is not required under normal use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state:	Solid	Form:	Fine powder	Color:	Black	Odor:	Odorless
pH	: N.A.						
Melting Point	: 140 °C						
Explosion Properties	: 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.						
Specific Gravity	: 0.8 (Bulk 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	: (rat)LD ₅₀ >2,500mg/kg	containing same materials.)
	(Estimated from other products :	
Acute dermal toxicity	: (rat)LD ₅₀ >2,000mg/kg	containing same materials.)
	(Estimated from other products :	
Acute inhalation toxicity	: (rat)LC ₅₀ (4hr)>5.1 3mg/l	containing same materials.)
	(Estimated from other products :	
	(rabbit)Mild irritant	
Acute eye irritation		containing same materials.)
	(Estimated from other products	
Acute skin irritation	: (rabbit)Non-irritant	containing same materials.)
	(Estimated from other products	
Skin sensitisation	: (mouse)Non-Sensitiser	containing same materials.)
	(Estimated from other products	
Mutagenicity		
Toxicity		
ReproductiveCalifornia	: No reproductive toxicant, according to MAK,	
	Proposition 65, TRGS905 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, California Proposition 65, TRGS 905 and	
	EU Directive(67/548/EEC).	
	: Ames Test is Negative.	

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(1 6mg/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(1 mg/m³) 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 :

UN Shipping Name None :

UN Classification UN None :

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

All components in this product comply with order under 67/548/EEC.

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
EPA	: Environmental Protection Agency(USA)
IARC	: International Agency for Research on Cancer :
JAI H	Japan Association on Industrial Health
MAK	: MAK(Maximale Arbeitsplatzkonzentrationen) under Deutsche Forschungsgemeinschaft
NTP	: National Toxicology Program
OSHA	: Occupational Safety and Health Administration :
TRGS	Technische Regeln für Gefahrstoffe(Deutsche) :
TSCA	Toxic Substances Control Act (USA)