



MATERIAL SAFETY DATA SHEET

Date/ Revision: August 2, 2004

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : Black Toner for FS-1020D, 1018MFP
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	-	50-60
Magnetite	-	30-40
Titanium oxide	13463-67-7	1-5
Silica	7631-86-9	1-5
Carbon black	1333-86-4	<1

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.
- 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 : Never open the toner container.
- Storage : Keep the toner container 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, Carbon Black 3.5mg/m³,
Total Dust 10mg/m³
- OSHA PEL(1993) : Titanium oxide 15mg/m³, Silica 5mg/m³, Carbon Black 3.5mg/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.
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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	: 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.						
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	: 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 sensitisation	: 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 receiving 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/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

12. ECOLOGICAL INFORMATION

No data available.

13. DISPOSAL CONSIDERATIONS

Do not dispose of the waste toner container as domestic, general waste.

Do not incinerate toner and toner containers. Dangerous sparks may cause burn.

14. TRANSPORT INFORMATION

UN No. : None

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

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
JAIH	: Japan Association on Industrial Health
MAK	: MAK(Maximale Arbeitsplatzkonzentrationen) unter Deutsche Forschungsgemeinschaft
NTP	: National Toxicology Program
OSHA	: Occupational Safety and Health Administration
TRGS	: Technische Regeln für Gefahrstoffe(Deutsche)
TSCA	: Toxic Substances Control Act (USA)