

**Material Safety Data Sheet**  
**In accordino to the Regulation (CE) n. 1907/2006 REACH**  
Issue date: 24/11/2010 data Rev. Date: 24/11/2010  
Data Sheet B0946en Rev. n. 0

**1. Identification of the Product and of the Company**

<b>Product name:</b>	<b>Black Toner MF2603/2604 (7K)</b>
<b>Code number:</b>	<b>B0946</b>
<b>Product description:</b>	Toner
<b>Company name:</b>	Olivetti S.p.A. Via Jervis 77 10015 Ivrea (TO) - ITALY
<b>For information:</b>	Tel. 0039 (0)125 775710 Fax 0039 (0)125 775711 e-mail : <a href="mailto:supplies@olivetti.com">supplies@olivetti.com</a>
<b>For emergency:</b>	Centro Antiveleni-Ospedale Niguarda (Milano) 0039 (0)2 66101029

**2. Hazards identification**

Classification: Not classified as dangerous in according to Directive 67/548/CEE, 1999/45/CE and 2001/60/CE and further modifications.

Other information on hazards

<b>Ingestion:</b>	Ingestion is not applicable route of entry for intended use.
<b>Inhalation:</b>	Prolonged inhalation of excessive dusts may cause lung damage. Use of this product, as intended, does not result in inhalation of excessive dusts.
<b>Eye Contact:</b>	May cause eye irritation.
<b>Skin Contact:</b>	Unlikely to cause skin irritation.
<b>Environment Hazards:</b>	No data are available on the adverse effects of this product on the environment.
<b>Specific Hazards:</b>	Dust explosion (like most finely divided organic powders)

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### 3. **Composition/information on ingredients**

Substance [ ] Preparation [ X ]

Major ingredients:

Chemical name	Weight %	CAS number	EINECS number
Polyester resin	70-80	+++	+++
Carbon Black	5-10	1333-86-4	215-609-9
Styrene acrylate copolymer	1-5	+++	+++
Wax	1-5	+++	+++
Amorphous Silica	1-5	7631-86-9	231-545-4

+++ : Supplier's confidential information

### 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 water and mild soap.
- 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:** CO<sub>2</sub>, Water (Sprinkle with water), Foam, Powder 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.
- Methods for Cleaning-up:** Gather the released toner not to blowing away and wipe up with a wet cloth

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### 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

**Engineer Measures**

Ventilation: Ventilator is not required under normal use.

**Control Parameters**

ACGIH-TLV (2008)-TWA: Inhalable fraction 10 mg/m<sup>3</sup>, Respirable fraction 3 mg/m<sup>3</sup>,  
Carbon Black 3.5 mg/m<sup>3</sup>

OSHA-PEL (2006)-TWA: Total Dust 15 mg/m<sup>3</sup>, Respirable fraction 5 mg/m<sup>3</sup>  
Carbon Black 3.5 mg/m<sup>3</sup>  
Silica 80 mg/m<sup>3</sup>/%SiO<sub>2</sub>

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

### 9. Physical and chemical properties

<b>Physical state:</b>	Solid
<b>Form:</b>	Fine Powder
<b>Color:</b>	Black
<b>Odour:</b>	Odorless
<b>pH</b>	Not applicable
<b>Melting Point:</b>	100-120°C
<b>Explosion Properties:</b>	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.
<b>Density:</b>	1.2-1.4 g/cm <sup>3</sup>
<b>Solubility:</b>	Almost insoluble in water

### 10. Stability and reactivity

**Stability/Reactivity:** Stable under normal use.

**Hazardous Decomposition Products:** None.

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**11. Toxicological information**

<b>Acute oral toxicity:</b>	(rat) LD <sub>50</sub> >2,000 mg/kg (Estimated from other products containing same materials)
<b>Acute dermal toxicity:</b>	(rat) LD <sub>50</sub> >2,000 mg/kg (Estimated from other products containing same materials)
<b>Acute inhalation toxicity:</b>	(rat) LC <sub>50</sub> (4hr)>5.02 mg/l (Estimated from other products containing same materials)
<b>Acute eye irritation:</b>	(rabbit) Minimal irritant (Estimated from other products containing same materials)
<b>Acute skin irritation:</b>	(rabbit) Mild irritant (Estimated from other products containing same materials)
<b>Skin sensitization:</b>	(mouse) Non-Sensitiser (Estimated from other products containing same materials)
<b>Mutagenicity:</b>	Ames test is Negative (Estimated from other products containing same materials)
<b>Reproductive Toxicity:</b>	No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and EU Directive (67/548/EEC)
<b>Carcinogenicity:</b>	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, TRGS905 and EU Directive (67/548/EEC)
<p>In the 1996, the IARC reevaluated carbon black as a Group 2B carcinogen (possible human carcinogen). This evaluation is given to carbon black for which there is a inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rat receiving chronic inhalation 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.</p>	
<b>Chronic effects:</b>	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 (16 mg/m <sup>3</sup> ) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4 mg/m <sup>3</sup> ) exposure group. But no pulmonary change was reported in the lowest (1 mg/m <sup>3</sup> ) exposure group, the most relevant level to potential human exposures.
<b>Other information:</b>	None

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**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 Shipping name, UN Classification, UN Packing Group, Special Precautions : None

**15. Regulatory information**

**EU Information**

Information on the label (1999/45/EC and 67/548/EEC): Not required

**US Information**

All components in this product comply with order under TSCA

**16. Other information**

This Material Safety Data Sheet was prepared in accordance to the Regulation (CE) n. 1907/2006 REACH.  
This information adds to those contained in the "Instructions of use" for same product, but does not substitute them.

The information contained herein relates only to the referred product as manufactured and put into the market, and is not valid for other combinations of same materials.

It is the user's responsibility to determine the suitability of such information for his intended use.

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<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: United Nations  
TSCA: Toxic Substances Control Act (USA)

<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)