

**Material Safety Data Sheet**  
**In accordance to the Regulation (CE) n. 1907/2006 REACH**  
Issue date: 07/04/2009 data Rev. Date: 07/04/2009  
Data Sheet B0812in Rev. n. 0

### 1. Identification of the product and of the Company

<b>Product Name:</b>	<b>Toner Cartridge - Capacity 20K PGL - 2045</b>
<b>Product Code:</b>	<b>B0812</b>
<b>Product Description:</b>	Black toner
<b>Company Details:</b>	Olivetti S.p.A. Via Jervis 77 10015 Ivrea (TO) - ITALY
<b>For information:</b>	Tel. 0039 (0)125 522710 Fax 0039 (0)125 522711 e-mail : <a href="mailto:supplies@olivetti.com">supplies@olivetti.com</a>
<b>For emergency:</b>	Centro Antiveleni-Ospedale Niguarda (Milan) 0039 (0)2 66101029

### 2. Hazards Identification

<b>Most important Hazards:</b>	None
<b>Specific Hazards:</b>	None
<b>Other information on Hazards:</b>	Potential health effect
<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

### 3. Composition/information on ingredients

Substance or preparation; Preparation Ingredients

Chemical name (Common name)	CAS number	Weight %
Styrene acrylate copolymer – 1	–	50 – 60
Magnetite	–	40 – 50
Styrene acrylate copolymer – 2	–	1 – 5
Wax	–	1 – 5

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#### **4. First aid measures**

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

#### **5. Fire fighting measures**

<b>Extinguishing Media</b>	Water (Sprinkle with Water), Foam, Powder, CO2 or Dry Chemical Extinguisher
<b>Fire – Fighting Procedure</b>	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**

In case of dispersion of large amount of product take the following precautions:

<b>Personal precautions:</b>	Avoid inhalation, ingestion, eye and skin contact in case of accidental toner release
<b>Environmental precautions:</b>	No special precaution
<b>Method for cleaning up:</b>	Gather the released toner not to blow away and wipe up with a wet cloth

#### **7. Handling and storage**

<b>Handling:</b>	Never open the toner container
<b>Storage:</b>	Keep the toner container tightly closed and store in a cool, dry and dark place keeping away from fire. Keep away from children

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## 8. Exposure controls/personal protection

### Control parameters <Reference Data>

ACGIH TLV (2000) Total Dust 10 mg/m<sup>3</sup>

OSHA PEL (2006) Total Dust 15 mg/m<sup>3</sup>

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

**Ventilation:** Ventilation is not required under normal use

## 9. Physical and chemical properties

### 9.1 General information

Physical state:	Solid
Form:	Fine powder
Color:	Black
Odor:	Odorless

### 9.2 Important health, safety and environmental information

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
Density	1.5 – 2.0 g/cm <sup>3</sup>
Solubility	Almost insoluble in water

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## **10. Stability and reactivity**

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

**Hazardous Decomposition products:** None

## **11. Toxicological Information**

**Acute oral toxicity** (rat) LD<sub>50</sub>>2,500 mg/kg  
(Estimated from other containing same materials)

**Acute dermal toxicity** (rat) LD<sub>50</sub>>2,000 mg/kg  
(Estimated from other containing same materials)

**Acute inhalation toxicity** (rat) LC<sub>50</sub> (4hr)>5.13 mg/l  
(Estimated from other containing same materials)

**Acute eye irritation** (rabbit) Mild irritant  
(Estimated from other containing same materials)

**Acute skin irritation** (rabbit) Non – irritant  
(Estimated from other containing same materials)

**Skin sensitization** (mouse) Non – Sensitiser  
(Estimated from other containing same materials)

**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, according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTA, ILO, MAK, California Proposition 65, TRGS 905 and Directive (67/548/EEC).

**Chronic effects** In 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 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 not pulmonary change was reported in the lowest (1 mg/m<sup>3</sup>) exposure group, the most relevant level to potential human exposures.

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### **12. Ecological information**

No data available

### **13. Disposal Consideration**

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: None

UN Packing Group: None

Special Precautions: None

### **15. Regulatory Information**

#### **EU Information**

**Label information according to the Directives 67/548/EEC and 199/45/EEC.**

Symbol and Indication: Not required

R – Phrase: Not required

S – Phrase: Not required

Special markings: Not required

Hazardous ingredients for labelling: None

#### **US Information**

**All components in this product comply with order under TSCA.**

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## **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)

EPA: Environmental Protection Agency (USA)

NTP: National Toxicology Program

ILO: International Labour Office

UN: Nnited 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)