

**Material Safety Data Sheet**  
*According to the directive 91/155/CEE*  
Issue Date: 10/10/05 data Rev. Date: 10/10/05  
Data Sheet B0537in Rev. n. 0

### 1. **Product and Company Identification**

**Product Name:** Imaging Unit Black d-COLOR MF25  
**Product Code:** B0537  
**Product Description:** Black developer used to convey black toner to the print drum for electrophotographic printing systems.  
**Company Details:** Olivetti S.p.A.  
Via Jervis 77  
10015 Ivrea (TO) - ITALY  
**For information:** Tel. 0039 (0)125 522710  
Fax 0039 (0)125 522711  
e-mail : [supplies@olivetti.com](mailto:supplies@olivetti.com)  
**For emergency:** Centro Antiveleni-Ospedale Niguarda (Milan)  
0039 (0)2 66101029

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

Substance or prepared product: prepared product.

Chemical names*	Weight %	CAS No.	EINECS No.	EU Classification
Iron oxide	60-70	1309-37-1	215-168-2	Not classified
Manganese oxide	15-25	1344-43-0	215-695-8	Not classified
Magnesium oxide	1-10	1309-48-4	215-171-9	Not classified
Styrene acrylic resin	1-10	**	-	Not classified
Acryl resin	1-10	**	-	Not classified
Carbon Black	<1	1333-86-4	215-609-9	Not classified

\*Limits of occupational exposure are reported in section 8 if they are available.

\*\*Supplier's confidential information.

### 3. **Hazards Indications**

The product is not classified dangerous according to European Directive 1999/45/CE.

**Skin Contact:** Improbable irritation to the skin.  
**Ingestion:** Product ingestion is unforeseeable during the normal use.  
**Inhalation:** Unforeseeable during the normal use. Prolonged inhalation of significant quantity of powder could cause damages to the lungs.  
**Eye contact:** Can cause eye irritation.  
**Hazard Specifics:** The explosion of the powders is improbable during the normal use. As many organic powers final split can create explosive mixtures.

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#### **4. First Aid Measures**

<b>Inhalation:</b>	If inhaled, move the person to a place of open air and rinse the mouth with plenty of water. In case of the person stop breathing, apply artificial respiration. If the person has difficulty in breathing, supply oxygen. Seek advise from doctor if the symptoms persist.
<b>Ingestion:</b>	Rinse the mouth. Drink one or two glasses of water for dilution. Seek advise from doctors if the symptoms persist.
<b>Skin Contact:</b>	Wash with plenty of water and soap. Seek advise from doctor if irritation persists.
<b>Eye Contact:</b>	Check and remove contact lenses. In case of the contact, wash the eyes for at least 15 minutes. Seek advise from doctors if the symptoms persist.

#### **5. Fire – Fighting Measures**

<b>Extinguishing Media:</b>	Water, foam, CO2 and chemical powder. Do not throw water directly.
<b>Special fire-fighting procedures:</b>	Wear protective breathing apparatus (oxygen mask if in closed space) and suitable protective clothing.
<b>Hazardous products of thermal decomposition:</b>	Can produce carbon oxides, metallic oxides and smoke.

#### **6. Accidental Release Measures**

<b>Personal Protections:</b>	In case of the accidental release, avoid inhalation, ingestion, eye and skin contacts.
<b>Precautions for the Environment:</b>	Do not dispose in the environment. Dispose the product as waste.
<b>Clean-up Method:</b>	In case of accidental spilt due to broken wrapping, do not spread the product, collect it with a suitable vacuum cleaner or adsorb it with a wet mop.
<b>NOTE:</b> See section 8 for personal protection equipments and section 13 for the product disposal.	

#### **7. Handling and Storage**

<b>Handling:</b>	Keep the container closed. Keep away from heat and other possible sources of triggers. Do not intake. Do not breath in powders.
<b>Storage:</b>	Store the container well-closed in a cool and dry place.

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### 8. Exposure Controls and Personal Protection

<b>Ventilation:</b>	Not required for the normal uses.
<b>Hygiene Measures:</b>	Wash hands after product use and before eating.
<b>Limits of Occupational Exposure:</b>	
<b>ACGIH TLV-TWA (2004):</b>	10 mg/m <sup>3</sup> TLV-TWA particles not otherwise classified (Inhalable fraction).
<b>ACGIH TLV-TWA (2004):</b>	3 mg/m <sup>3</sup> TLV-TWA Particles not otherwise classified (Breathable Fraction).
<b>ACGIH TLV-TWA (2004):</b>	0,2 mg/m <sup>3</sup> TLV-TWA manganese and inorganic compounds.
<b>ACGIH TLV-TWA (2004):</b>	5 mg/m <sup>3</sup> TLV-TWA iron oxide dust & fume
<b>ACGIH TLV-TWA (2004):</b>	3,5 mg/m <sup>3</sup> TLV-TWA carbon black.
<b>Protection Devices:</b>	Protections for respiratory ways, eyes, skin and body are not expected during the normal use conditions. In case of broken wrapping, use protective gloves and P2 facial filter.

### 9. Physical and Chemical Properties

<b>Physical state:</b>	Solid (fine powder).
<b>Colour:</b>	Black
<b>pH:</b>	Not applicable.
<b>Odour:</b>	Almost odourless.
<b>Melting Point:</b>	~125°C.
<b>Explosive properties:</b>	Not available.
<b>Ignition Point:</b>	Not available.
<b>Density:</b>	5 (H <sub>2</sub> O=1).
<b>Water Solubility:</b>	Insoluble in water.

### 10. Stability and Reactivity

<b>Stability:</b>	Stable, in the normal conditions of use and storage.
<b>Incompatible Materials:</b>	Avoid strong oxidizing agents.
<b>Conditions to be avoided:</b>	Contact with fire and electrical discharges.
<b>Product of Degradation Hazards:</b>	The thermal decomposition can generate carbon oxides and metal oxides.

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### **11. Toxicological Information**

<b>Acute oral toxicity (DL<sub>50</sub>):</b>	>2500 mg/kg (Rat)*.
<b>Acute inhalation toxicity (CL<sub>50</sub>):</b>	Not available.
<b>Acute dermal toxicity (DL<sub>50</sub>):</b>	Not available.
<b>Eye Irritation:</b>	Not available.
<b>Skin irritation:</b>	Mild irritant (rabbit)*.
<b>Skin sensitization:</b>	Non sensitizer (guinea pig)*.
<b>Reproductive Toxicity:</b>	Non toxic for reproductive systems according to European Directive 67/548/CEE.
<b>Carcinogenic Effects:</b>	Non carcinogenic nor potentially carcinogenic, according to European Directive 67/548/CEE, IARC e ACGIH.
<b>Mutagenicity (Ames test) :</b>	Negative*.

\*Based on data for other products with similar compositions.

### **12. Ecological Information**

There is no information indicates negative ecological effects.  
Avoid uncontrolled disposal in the environment.

### **13. Disposal Considerations**

Dispose in compliance to the directive of 75/442/CEE (as modified from the Directives 91/156/CEE, 91/692/CEE, 96/59/CE and of Decision 96/350/CE) and according to the following regulations:

- Directive 91/689/CEE on hazardous wastes.
- Resolution 2000/532/CE and following modifications about institution of a new community waste's list.
- Directive 94/62/CE on the package and waste of package.

### **14. Transport information**

There is no precaution in particular.

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### **15. Regulatory Information**

Labelling according to European Directive 1999/45/CE, 67/548/CEE and the successive modifications and integration.

**Danger symbol:** Not required.

**Phrase of risk:** Not required.

**Prudence suggestions:** Not required.

**Contained the following hazard components:** Carbon black (EINECS: 215-609-9) classified in Group 2B (possible carcinogenic for human of IARC).

### **16. Other Information**

This Material Safety Data Sheet was prepared in compliance with EU Directive 91/155/CEE including amendments and integrations.

The Sheet establishes a integrative document relative on the product usage instructions but does not substitute the product usage instructions itself.

The information contained in this sheet about the substances indicated, are referred to their conditions in the particular way the product is prepared and immersed in the market. The information is NOT valid for other combinations of these substances.

The information given is based on the knowledge acquired in the subject matter on the date which the Safety Data Sheet is written.

It is the user responsibility to use the products only for the anticipated ways and verify the appropriateness of each information for the usage.

< Abbreviations >

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Substances.

IARC: International Agency for Research on Cancer

CAS: Chemical Abstract Service.