

Material Safety Data Sheet
According to 91/155/EEC
Issue Date: 12/07/05 Rev. update: 12/07/05
Data Sheet B0532en Rev. n. 0

1. **Product and company identification**

Product Name: DEVELOPER d-COPIA 16W
Product Code: B0532
Product Description: Black developer for printers and laser photocopier.
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
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	No. CAS	No. EINECS	EU Classification
Styrene-Acrylate copolymer	5-10	29497-14-1	-	Not classified
Iron powder	>90	7439-89-6	231-096-4	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.

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 powders final split can create explosive mixtures.



4. **First Aid Measures**

5. **Fire – Fighting Measures**

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

6. **Accidental Release Measures**

Personal Protections:	In case of the accidental release, avoid inhalation, ingestion, eye and skin contacts.
Precautions for the Environment:	Do not dispose in the environment. Dispose the product as waste. 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.
Clean-up Method:	

NOTE: See section 8 for personal protection equipments and section 13 for the product disposal.

7. **Handling and Storage**

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

olivetti

Material Safety Data Sheet
According to 91/155/EEC
Issue Date: 12/07/05 Rev. update: 12/07/05
Data Sheet B0532en Rev. n. 0

8. Exposure Controls and Personal Protection

Ventilation: Not required for the normal uses.
Hygiene Measures: Wash hands after product use and before eating.

Limits of Occupational Exposure:
ACGIH TLV-TWA (2004) : 10 mg/m³ TLV-TWA particles not otherwise classified (Inhalable fraction).
ACGIH TLV-TWA (2004) : 3 mg/m³ TLV-TWA Particles not otherwise classified (Breathable Fraction).
ACGIH TLV-TWA (2004) : 3,5 mg/m³ TLV-TWA carbon black.
ACGIH TLV-TWA (2004) : 5 mg/m³ TLV-TWA Iron oxide smoke and powders (Fe₂O₃), as Fe.
Protection Devices: Protections for respiratory ways, eyes, skin and body are not expected during the normal use conditions. In case of broken wrapping, use gloves and P2 facial filter.

9. Physical and Chemical Properties

Aspect:	Solid (fine powder).
Colour:	Black
pH:	Not applicable.
Odour:	Odourless
Melting Point:	Non applicable.
Explosive proprieties:	Experiments on Explosivity of the toner powders are classified as the same way as for the powders of flour, milk and plastic accordant with the velocity of increasing pressure.
Ignition point:	Non available.
Density:	7.3 (bulk density : 2.0).
Water Solubility:	Negligible.

10. Stability and Reactivity

Stability: Stable, in the normal conditions of use and storage.
Incompatible Materials: Strongly oxidant substances.
 Contact with fire and electrical discharges.
Product of Degradation Hazards: The thermic decomposition can generate carbon and nitrogen oxides and metal oxides.

Material Safety Data Sheet
According to 91/155/EEC
Issue Date: 12/07/05 Rev. update: 12/07/05
Data Sheet B0532en Rev. n. 0

11. Toxicological Information

Acute oral toxicity (DL₅₀):	>2000 mg/kg (mouse).
Acute inhalation toxicity:	Non available.
Acute dermal toxicity:	Non available.
Eye Irritation:	Non available.
Dermal Irritation:	Negative (rabbit).
Skin sensitisation:	Negative.
Reproductive Toxicity:	Non toxic for reproductive systems according to European Directive 67/548/CEE.
Carcinogenic Effects:	Non carcinogenic nor potentially carcinogenic, according to European Directive 67/548/CEE, IARC e ACGIH.
Mutagenicity (Ames test) :	Negative.

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.

Material Safety Data Sheet
According to 91/155/EEC
Issue Date: 12/07/05 Rev. update: 12/07/05
Data Sheet B0532en Rev. n. 0

15. Regulatory Information

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

Danger Symbol: Non required.

Phrase of risk: Non required.

Prudence suggestions: Non 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.