

# Material Safety Data Sheet

According to 91/155/EEC and following modifications

Issue date: 12/05/05      update: 12/05/05

Data sheet B0495 in Rev. n. 0

## 1. Identification of product and company

**Product name:** Ink-jet black monoblock printhead IN502  
**Code number:** B0495  
**Product description:** Cartridge containing water based ink for ink-jet printers.  
**Company name:** Olivetti S.p.A.  
Via Jervis 77  
10015 Ivrea (TO) - ITALY  
**For informations:** 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 (Milano)  
0039 (0)2 66101029

## 2. Composition/information on ingredients

The product is composed of water-based ink, containing the following substances.

| Chemical names  | EINECS No. | CAS No.   | Weight % | Classification       |
|-----------------|------------|-----------|----------|----------------------|
| 1,2-ethanediol* | 203-473-3  | 107-21-1  | 5-15     | X <sub>n</sub> , R22 |
| 2-pyrrolidinone | 210-483-1  | 616-45-5  | 5-15     | Not classified       |
| Carbon Black*   | 215-609-9  | 1333-86-4 | <5       | Not classified       |
| Water           | 231-791-2  | 7732-18-5 | >70      | Not classified       |

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

## 3. Hazard identification

**Information on hazard:** The preparation is not classified as a dangerous according to UE Directive 1999/45/EC and its amendments.  
**Contact with skin:** Prolonged contact may cause skin irritation.  
**Contact with eyes:** Accidental contact may cause eyes irritation.  
**Inhalation:** No specific danger during the normal use.  
**Ingestion:** Unforeseeable during the normal use.



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### 4. First - aid measures

|                           |   |
|---------------------------|---|
| <b>Contact with skin:</b> | Wash heavily with water and Marseilles soap. If the irritation persists, call a physician.  |
| <b>Contact with eyes:</b> | Wash heavily with water with open eyelid for 15 minutes at least. If eyes pain or redness persists, call an oculist. Don't use ointments or eyewashes without eyes examination. |
| <b>Inhalation:</b>        | Not applicable.   |
| <b>Ingestion:</b>         | Don't give anything orally. Don't induce vomit. Take the patient to a first aid station.  |

### 5. Fire - fighting measures

|   |   |
|---|---|
| <b>Extinguishing media:</b>             | Water, foam, CO2 , chemical powder according to the materials involved in the fire. |
| <b>Extinguishing Media NOT allowed:</b> | Nothing in particular.  |
| <b>Dangerous combustion products:</b>   | Carbon and Nitrogen oxides.   |
| <b>Protection Measures:</b>             | Use protection for the respiratory ways.  |

### 6. Accidental release measures

|                                   |  |
|-----------------------------------|--|
| <b>Personal protection:</b>       | In breach case of the packaging wear skin and eyes protection. |
| <b>Environmental precautions:</b> | Do not dispose the product in the environment.                 |
| <b>Clean – up method:</b>         | Soak up with suitable cloth. Remove traces with wet cloth.     |

### 7. Handling and storage

|                  |   |
|------------------|---|
| <b>Handling:</b> | Avoid ingestion, skin and eyes contact. Keep away from the reach of children. |
| <b>Storage:</b>  | Store in a fresh and dry room. Keep closed the container.                     |

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### 8. Exposure controls and personal protection

|   |  |
|---|--|
| <b>Engineering Controls:</b>            | It is not required under normal use.   |
| <b>Hygiene measures:</b>                | Wash hands after handling compounds and before eating and smoking.   |
| <b>Occupational Exposure Limits:</b>    | Carbon Black TLV-TWA (ACGIH 2004)= 3.5 mg/m <sup>3</sup> .<br>1,2- Ethanediol TLV-Ceiling (ACGIH 2004)=100 mg/m <sup>3</sup> . |
| <b>Personal Protection Equipment(s)</b> |  |
| <b>Respiratory protection:</b>          | It is not required under normal use.   |
| <b>Hands protection:</b>                | Waterproof protection gloves.  |
| <b>Eyes protection:</b>                 | It is not required under normal use.   |

### 9. Physical and chemical properties

|                            |                            |
|----------------------------|----------------------------|
| <b>Aspect and colour::</b> | Liquid black.              |
| <b>Odour:</b>              | Weak.                      |
| <b>pH :</b>                | 6-8.                       |
| <b>Boiling Point:</b>      | >100 °C.                   |
| <b>Density @ 25 °C:</b>    | 1.04 (H <sub>2</sub> O=1). |
| <b>Water Solubility:</b>   | Completely miscible.       |
| <b>Viscosity @ 25 °C:</b>  | ~2.0 cps.                  |

### 10. Stability and reactivity

|  |   |
|--|---|
| <b>Stability:</b>                        | Stable in the normal condition of usage and storage.  |
| <b>Conditions to avoid:</b>              | Avoid high temperature exposure.                      |
| <b>Incompatible materials:</b>           | Strong oxidizers.                                     |
| <b>Dangerous decomposition products:</b> | The product does not decompose during the normal use. |

### 11. Toxicological information

They are not available toxicological data on the preparation. The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.

To estimate the toxicological effects deriving from the exposure to the preparation, reference to the concentration of the single substances in paragraph 2. The product does not contain toxicologically relevant substances.

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### 12. Ecological information

Use according to good working practice, avoid uncontrolled product disposal to the environment. There is no information indicating negative ecological effects.

### 13. Disposal considerations

Dispose in according to 75/442/CEE and following modifications (91/156/CEE, 91/692/CEE, 96/59/CE and 96/350/CE) and in according to:

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

### 14. Transport information

There is no precaution in particular.

### 15. Informazioni sulla regolamentazione

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

**Danger Symbol:** Non required.

**R-phrase:** Non required.

**S-phrase:** Non required.

**Dangerous components:** 1,2-etandiolo (CAS 107-21-1): X<sub>n</sub>, R22  
Carbon black (EINECS: 215-609-9) classified in Group 2B (possible carcinogenic for human of IARC.)

Safety data sheet available for professional user on request.

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### **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 substances combinations.

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.

CAS:                                        Chemical Abstracts Service.

Integral test of R Phrase:

22      Harmful if swallowed.