1.) **Identification of the substance/preparation and of the company/undertaking**

**Identification of the substance or preparation**

Trade name

**eding 8404 aerospace marker**

**Use of the substance/preparation**

Ink for use in drawliners

**Company/undertaking identification**

**Address**

edding Aktiengesellschaft  
Bookkoppel 7  
D-22926 Ahrensburg

Telephone no. +49 (0) 41 02 / 80 8-0

**Information provided by / telephone**

+49 (0)4102 - 808-0

**Emergency telephone**

+49 (0)30 192 40 (Toxic Substance Emergency Call Centre Berlin)

**Advice on Safety Data Sheet**

sdb_info@umco.de

2.) **Hazards identification**

**Hazard symbols**

- N O N E

**R phrases**

- N O N E

**Particular information pertaining specific risk for human / environment**

The product does not require a hazard warning label in accordance with Directive 1999/45/EC. No special hazards have to be mentioned. But please observe the information given in this safety data sheet.

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

**Chemical characterization**

Aqueous preparation

**Hazardous ingredients**

ETHANE-1,2-DIOL

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<tr>
<th>EC no.</th>
<th>Index no.</th>
<th>CAS no.</th>
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<td>203-473-3</td>
<td>603-027-00-1</td>
<td>107-21-1</td>
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Concentration:  
- > 1 < 5 %-%-b.w.

Classification: Xn; R22

Hazard symbols: Xn  
R phrases: 22

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Concentration:  
- > 5 < 15 %-%-b.w.

Classification: -

Hazard symbols: -  
R phrases: -

**Other information (chapter 3.)**

The data subject of this Material Safety Data sheet refer to the ink contained in this product (marker).
4.) **First aid measures**

**General information**
In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

**After inhalation**
Ensure supply of fresh air.

**After skin contact**
Wash off immediately with soap and water.

**After eye contact**
Separate eyelids, wash the eyes thoroughly with water (15 min.).

**After ingestion**
Rinse mouth thoroughly with water. Summon a doctor immediately. Never give anything by mouth to an unconscious person.

5.) **Fire-fighting measures**

**Suitable extinguishing media**
Foam; Carbon dioxide; extinguishing powder; Water spray jet

**Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**
None known

**Special protective equipment for fire-fighters**
Use self-contained breathing apparatus. Wear protective clothing.

6.) **Accidental release measures**

**Personal precautions**
Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing.

**Environmental precautions**
Do not discharge into the drains/surface waters/groundwater.

**Methods for cleaning up/taking up**
Take up with absorbent material (e.g., sand, kieselguhr, universal binder). When picked up, treat material as prescribed under heading "Disposal considerations".

7.) **Handling and storage**

**Handling**

**Advice on safe handling**
Provide good ventilation of working area (local exhaust ventilation, if necessary). Observe the usual precautions for handling chemicals.

**Advice on protection against fire and explosion**
No special measures necessary.

**Storage**

**Requirements for storage rooms and vessels**
Store product in closed containers.

**Advice on storage assembly**
None known

**Further information on storage conditions**
Keep container tightly closed and dry in a cool, well-ventilated place.
8.) **Exposure controls / personal protection**

**Exposure limit values**

**ETHANE-1,2-DIOL**

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**2000/39/EWG**

Ethylene glycol

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<th>Skin resorption / sensation</th>
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**Occupational Exposure Standards (OESs) / EH40**

Ethane 1,2-diol particulate

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<td>mg/m³</td>
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**Occupational Exposure Standards (OESs) / EH40**

Ethane 1,2-diol vapour

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**Occupational Exposure Standards (OESs) / EH40**

Carbon black

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<td>7</td>
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<tr>
<td></td>
<td>mg/m³</td>
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**Personal protective equipment**

**Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

**Hand protection**

In case of intensive contact, wear protective gloves (EN 374). Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer’s instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

**Eye protection**

Safety glasses (EN 166)

**Skin protection**

Clothing as usual in the chemical industry.

**General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Wash hands before breaks and after work.
9.) **Physical and chemical properties**

**General information**
- Form: liquid
- Colour: black
- Odour: weak

**Important health, safety and environmental information**
- **Changes in physical state**
  - Value: no data available
- **Flash point**
  - Remarks: not applicable
- **Density**
  - Value: no data available
- **Solubility in water**
  - Remarks: miscible

10.) **Stability and reactivity**

**Materials to avoid**
- None known.

**Hazardous decomposition products**
- No hazardous decomposition products known.

11.) **Toxicological information**

**Experience in practice**
- Repeated and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin.
- Eye contact with the product may lead to irritation.

**Other information (chapter 11.)**
- Product specific toxicological data are not known.

12.) **Ecological information**

**Other adverse effects**
- Ecological data are not available.
- Do not discharge product unmonitored into the environment.

13.) **Disposal considerations**

**Product**
- Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**
- Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

14.) **Transport information**

**Other information (chapter 14.)**
- The product is not defined under national/international road, rail, sea and air transport regulations as a hazardous material.
15.) Regulatory information

Labelling in accordance with EC directives
The product does not require a hazard warning label in accordance with EC Directive 1999/45/EC.
The data subject of this Material Safety Data sheet refer to the ink contained in this product (marker).

Hazard symbols
- None

R phrases
- None

Special labelling for certain preparations
“Safety data sheet available for professional user on request.”

Remarks
Annex I, part 1 + 2: not mentioned. With regard to possibly appropriate decomposition products see Chapter 10.

16.) Other information

Sources of key data used to compile the data sheet:
National Threshold Limit Values of the corresponding countries as amended in each case.
Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.
The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Relevant R-phrases (chapter 3):
22 Harmful if swallowed.

Department issuing safety data sheet
UMCO Umwelt Consult GmbH
Georg-Wilhelm-Str. 183 b, D-21107 Hamburg
Tel.: +49 40 / 41 92 13 00 Fax: +49 40 / 41 92 13 57 e-mail: umco@umco.de

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.