

**Trade name:** edding Highlighter Ink (blue, yellow) contained in: edding e-7 mini highlighter

**Current version :** 2.0.0, issued: 10.11.2019

**Replaced version:** 1.1.0, issued: 18.08.2016

**Region:** GB

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Trade name**

**edding Highlighter Ink (blue, yellow) contained in: edding e-7 mini highlighter**

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses of the substance or mixture**

Ink for use in felt pens

**Uses advised against**

No data available.

### 1.3 Details of the supplier of the safety data sheet

**Address**

edding International GmbH

Bookkoppel 7

D-22926 Ahrensburg

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

**Information provided by / telephone**

+49 (0)4102 - 808-0

**Advice on Safety Data Sheet**

sdb\_info@umco.de

### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)30 30686 790 (Giftnotruf Berlin)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

STOT RE 2; H373

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)**

**Hazard pictograms**



GHS08

**Signal word**

Warning

**Hazardous component(s) to be indicated on label:**

ethanediol

**Hazard statement(s)**

H373

May cause damage to kidneys through prolonged or repeated exposure by ingestion.

**Trade name:** edding Highlighter Ink (blue, yellow) contained in: edding e-7 mini highlighter

**Current version :** 2.0.0, issued: 10.11.2019

**Replaced version:** 1.1.0, issued: 18.08.2016

**Region:** GB

**Hazard statements (EU)**

**EUH208** Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

**Precautionary statement(s)**

**P101** If medical advice is needed, have product container or label at hand.  
**P102** Keep out of reach of children.  
**P260** Do not breathe vapours.  
**P501** Dispose of contents/container to a facility in accordance with local and national regulations.

**2.3 Other hazards**

No data available.

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures**

**Chemical characterization**

Mixture (preparation)

**Hazardous ingredients**

| No | Substance name  | Additional information   |                                   |
|----|---|--|-----------------------------------|
|    | CAS / EC / Index / REACH no   | Classification (EC) 1272/2008 (CLP)  | Concentration                     |
| 1  | <b>ethanediol</b>   |  | <b>pls. refer to footnote (1)</b> |
|    | 107-21-1<br>203-473-3<br>603-027-00-1<br>-  | Acute Tox. 4; H302<br>STOT RE 2; H373o   | >= 25.00 - < 50.00 %-b.w.         |
| 2  | <b>reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)</b> |  |                                   |
|    | -<br>-<br>-<br>-  | Acute Tox. 2; H310<br>Acute Tox. 2; H330<br>Acute Tox. 3; H301<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410<br>EUH071<br>Eye Dam. 1; H318<br>Skin Corr. 1C; H314<br>Skin Sens. 1A; H317 | < 0.0015 %-b.w.                   |

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(1) Aberrant from/in addition to the classification set out in Annex VI, this substance is classified according to European Regulation (EC) No 1272/2008 (CLP), Article 4 (3), paragraph 2.

| No | Note | Specific concentration limits   | M-factor (acute) | M-factor (chronic) |
|----|------|---|------------------|--------------------|
| 2  | B    | Skin Sens. 1A; H317: C >= 0.0015%<br>Eye Irrit. 2; H319: C >= 0.06%<br>Skin Irrit. 2; H315: C >= 0.06%<br>Skin Corr. 1C; H314: C >= 0.6%<br>Eye Dam. 1; H318: C >= 0.6% | M = 100          | M = 100            |

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

| No | Route, target organ, concrete effect |
|----|--------------------------------------|
| 1  | H373<br>oral; kidneys; -             |

**3.3 Other information**

**Trade name:** edding Highlighter Ink (blue, yellow) contained in: edding e-7 mini highlighter

**Current version :** 2.0.0, issued: 10.11.2019

**Replaced version:** 1.1.0, issued: 18.08.2016

**Region:** GB

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

## SECTION 4: First aid measures

### 4.1 Description of 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

Remove affected person from the immediate area. 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.). Seek medical assistance.

#### After ingestion

Rinse mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

### 4.2 Most important symptoms and effects, both acute and delayed

No data available.

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Alcohol-resistant foam; Extinguishing powder; Carbon dioxide; Water spray jet

#### Unsuitable extinguishing media

High power water jet

### 5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO); Combustion products of this material have to be classed invariably as respiratory poison.

### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Cool endangered containers with water spray jet.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

#### For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

### 6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g., sand, kieselguhr, universal binder). Send in suitable containers for recovery or disposal.

### 6.4 Reference to other sections

No data available.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

**Trade name:** edding Highlighter Ink (blue, yellow) contained in: edding e-7 mini highlighter

**Current version :** 2.0.0, issued: 10.11.2019

**Replaced version:** 1.1.0, issued: 18.08.2016

**Region:** GB

### Advice on safe handling

Provide good ventilation at the work area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn.

### 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. Do not inhale vapours. Clean skin thoroughly after work; apply skin cream.

## 7.2 Conditions for safe storage, including any incompatibilities

### Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

### Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original one.

## 7.3 Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

| No | Substance name  | CAS no.  | EC no.                   |
|----|---|----------|--------------------------|
| 1  | ethanediol  | 107-21-1 | 203-473-3                |
|    | <b>2000/39/EC</b>   |          |                          |
|    | Ethylene glycol   |          |                          |
|    | WEL short-term (15 min reference period)                        | 104      | mg/m <sup>3</sup> 40 ppm |
|    | WEL long-term (8-hr TWA reference period)                       | 52       | mg/m <sup>3</sup> 20 ppm |
|    | Skin resorption / sensibilisation                               | Skin     |                          |
|    | <b>List of approved workplace exposure limits (WELs) / EH40</b> |          |                          |
|    | Ethane-1,2-diol vapour  |          |                          |
|    | WEL short-term (15 min reference period)                        | 104      | mg/m <sup>3</sup> 40 ppm |
|    | WEL long-term (8-hr TWA reference period)                       | 52       | mg/m <sup>3</sup> 20 ppm |
|    | Comments  | Sk       |                          |
|    | <b>List of approved workplace exposure limits (WELs) / EH40</b> |          |                          |
|    | Ethane-1,2-diol particulate                                     |          |                          |
|    | WEL long-term (8-hr TWA reference period)                       | 10       | mg/m <sup>3</sup>        |
|    | Comments  | Sk       |                          |

### 8.2 Exposure controls

#### Appropriate engineering controls

No data available.

#### 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.

##### Eye / face protection

Safety glasses with side protection shield (EN 166)

##### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves 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.

##### Other

**Trade name:** edding Highlighter Ink (blue, yellow) contained in: edding e-7 mini highlighter

**Current version :** 2.0.0, issued: 10.11.2019

**Replaced version:** 1.1.0, issued: 18.08.2016

**Region:** GB

Normal chemical work clothing.

**Environmental exposure controls**

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |                              |      |       |
|--|------------------------------|------|-------|
| <b>Form/Colour</b>                               |                              |      |       |
| liquid   |                              |      |       |
| blue; yellow                                     |                              |      |       |
| <b>Odour</b>                                     |                              |      |       |
| characteristic                                   |                              |      |       |
| <b>Odour threshold</b>                           |                              |      |       |
| No data available                                |                              |      |       |
| <b>pH value</b>                                  |                              |      |       |
| Value  | >                            | 5    |       |
| Reference temperature                            |                              | 20   | °C    |
| <b>Boiling point / boiling range</b>             |                              |      |       |
| Value  |                              | 100  | °C    |
| <b>Melting point / melting range</b>             |                              |      |       |
| No data available                                |                              |      |       |
| <b>Decomposition point / decomposition range</b> |                              |      |       |
| No data available                                |                              |      |       |
| <b>Flash point</b>                               |                              |      |       |
| Value  | >                            | 60   | °C    |
| <b>Ignition temperature</b>                      |                              |      |       |
| Value  |                              | 410  | °C    |
| <b>Auto-ignition temperature</b>                 |                              |      |       |
| Comments   | Product is not selfigniting. |      |       |
| <b>Oxidising properties</b>                      |                              |      |       |
| No data available                                |                              |      |       |
| <b>Explosive properties</b>                      |                              |      |       |
| Product does not present an explosion hazard.    |                              |      |       |
| <b>Flammability (solid, gas)</b>                 |                              |      |       |
| No data available                                |                              |      |       |
| <b>Lower flammability or explosive limits</b>    |                              |      |       |
| Value  |                              | 3.2  | % vol |
| <b>Upper flammability or explosive limits</b>    |                              |      |       |
| Value  |                              | 53.0 | % vol |
| <b>Vapour pressure</b>                           |                              |      |       |
| Value  |                              | 23.0 | hPa   |
| Reference temperature                            |                              | 20   | °C    |
| <b>Vapour density</b>                            |                              |      |       |
| No data available                                |                              |      |       |
| <b>Evaporation rate</b>                          |                              |      |       |
| No data available                                |                              |      |       |
| <b>Relative density</b>                          |                              |      |       |
| No data available                                |                              |      |       |

**Trade name:** edding Highlighter Ink (blue, yellow) contained in: edding e-7 mini highlighter

**Current version :** 2.0.0, issued: 10.11.2019

**Replaced version:** 1.1.0, issued: 18.08.2016

**Region:** GB

| Density                                |                                  |
|--|----------------------------------|
| Value                                  | 1.05 g/cm <sup>3</sup>           |
| Reference temperature                  | 20 °C                            |
| Solubility in water                    |                                  |
| Comments                               | Not miscible or difficult to mix |
| Solubility(ies)                        |                                  |
| No data available                      |                                  |
| Partition coefficient: n-octanol/water |                                  |
| No data available                      |                                  |
| Viscosity                              |                                  |
| Value                                  | 5.5 mPa*s                        |
| Reference temperature                  | 20 °C                            |
| Type                                   | dynamic                          |

**9.2 Other information**

| Other information  |
|--------------------|
| No data available. |

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

No data available.

**10.2 Chemical stability**

No data available.

**10.3 Possibility of hazardous reactions**

No data available.

**10.4 Conditions to avoid**

Heat, naked flames and other ignition sources.

**10.5 Incompatible materials**

No data available.

**10.6 Hazardous decomposition products**

No data available.

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

| Acute oral toxicity (result of the ATE calculation for the mixture) |   |
|---|---|
| No  | Product Name  |
| 1   | edding Highlighter Ink (blue, yellow) contained in:<br>edding e-7 mini highlighter  |
| Comments  | The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg). |

| Acute oral toxicity |                |          |                  |
|---------------------|----------------|----------|------------------|
| No                  | Substance name | CAS no.  | EC no.           |
| 1                   | ethanediol     | 107-21-1 | 203-473-3        |
| LD50                |                | 5840     | mg/kg bodyweight |
| Species             | rat            |          |                  |
| Source              | Manufacturer   |          |                  |

| Acute dermal toxicity |                |         |        |
|-----------------------|----------------|---------|--------|
| No                    | Substance name | CAS no. | EC no. |

**Trade name:** edding Highlighter Ink (blue, yellow) contained in: edding e-7 mini highlighter

**Current version :** 2.0.0, issued: 10.11.2019

**Replaced version:** 1.1.0, issued: 18.08.2016

**Region:** GB

| 1   | ethanediol   | 107-21-1 | 203-473-3        |
|---|--------------|----------|------------------|
| LD50  |              | 9530     | mg/kg bodyweight |
| Species   | rabbit       |          |                  |
| Source  | Manufacturer |          |                  |
| <b>Acute inhalational toxicity</b>                      |              |          |                  |
| No data available                                       |              |          |                  |
| <b>Skin corrosion/irritation</b>                        |              |          |                  |
| No data available                                       |              |          |                  |
| <b>Serious eye damage/irritation</b>                    |              |          |                  |
| No data available                                       |              |          |                  |
| <b>Respiratory or skin sensitisation</b>                |              |          |                  |
| No data available                                       |              |          |                  |
| <b>Germ cell mutagenicity</b>                           |              |          |                  |
| No data available                                       |              |          |                  |
| <b>Reproduction toxicity</b>                            |              |          |                  |
| No data available                                       |              |          |                  |
| <b>Carcinogenicity</b>                                  |              |          |                  |
| No data available                                       |              |          |                  |
| <b>STOT - single exposure</b>                           |              |          |                  |
| No data available                                       |              |          |                  |
| <b>STOT - repeated exposure</b>                         |              |          |                  |
| No data available                                       |              |          |                  |
| <b>Aspiration hazard</b>                                |              |          |                  |
| No data available                                       |              |          |                  |
| <b>Other information</b>                                |              |          |                  |
| Exercise customary precautions when handling chemicals. |              |          |                  |

## SECTION 12: Ecological information

### 12.1 Toxicity

|                                      |
|--------------------------------------|
| <b>Toxicity to fish (acute)</b>      |
| No data available                    |
| <b>Toxicity to fish (chronic)</b>    |
| No data available                    |
| <b>Toxicity to Daphnia (acute)</b>   |
| No data available                    |
| <b>Toxicity to Daphnia (chronic)</b> |
| No data available                    |
| <b>Toxicity to algae (acute)</b>     |
| No data available                    |
| <b>Toxicity to algae (chronic)</b>   |
| No data available                    |
| <b>Bacteria toxicity</b>             |
| No data available                    |

### 12.2 Persistence and degradability

No data available.

### 12.3 Bioaccumulative potential

No data available.

**Trade name:** edding Highlighter Ink (blue, yellow) contained in: edding e-7 mini highlighter

**Current version :** 2.0.0, issued: 10.11.2019

**Replaced version:** 1.1.0, issued: 18.08.2016

**Region:** GB

#### 12.4 Mobility in soil

No data available.

#### 12.5 Results of PBT and vPvB assessment

No data available.

#### 12.6 Other adverse effects

No data available.

#### 12.7 Other information

##### Other information

Do not discharge product unmonitored into the environment.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### 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.

### SECTION 14: Transport information

#### 14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

#### 14.2 Transport IMDG

The product is not subject to IMDG regulations.

#### 14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

#### 14.4 Other information

No data available.

#### 14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

#### 14.6 Special precautions for user

No data available.

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

##### EU regulations

##### Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

##### REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.



**Trade name:** edding Highlighter Ink (blue, yellow) contained in: edding e-7 mini highlighter

**Current version :** 2.0.0, issued: 10.11.2019

**Replaced version:** 1.1.0, issued: 18.08.2016

**Region:** GB

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES**

|   |      |
|---|------|
| The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII. | No 3 |
|---|------|

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is not subject to Part 1 or 2 of Annex I.

## 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

## SECTION 16: Other information

### Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

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.

### Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

|        |   |
|--------|---|
| EUH071 | Corrosive to the respiratory tract.   |
| H301   | Toxic if swallowed.   |
| H302   | Harmful if swallowed.   |
| H310   | Fatal in contact with skin.   |
| H314   | Causes severe skin burns and eye damage.  |
| H317   | May cause an allergic skin reaction.  |
| H318   | Causes serious eye damage.  |
| H330   | Fatal if inhaled.   |
| H373o  | May cause damage to organs through prolonged or repeated exposure if swallowed. |
| H400   | Very toxic to aquatic life.   |
| H410   | Very toxic to aquatic life with long lasting effects.                           |

### Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

**B** Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

### Department issuing safety data sheet

UMCO GmbH

Georg-Wilhelm-Str. 187, D-21107 Hamburg

Tel.: +49 40 / 555 546 300 Fax: +49 40 / 555 546 357 e-mail: umco@umco.de

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

Document protected by copyright. Alterations or reproductions require the express written permission of UMCO GmbH.  
Prod-ID 636330