

**Trade name:** edding refill ink whiteboard marker BTK25 (black) contained in: edding 360, edding 363

**Current version :** 6.1.0, issued: 09.05.2016

**Replaced version:** 6.0.0, issued: 30.06.2015

**Region:** GB

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

### 1.1 Product identifier

**Trade name**

**edding refill ink whiteboard marker BTK25 (black) contained in: edding 360, edding 363**

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

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

Refilling ink

**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)**

Eye Irrit. 2; H319

Flam. Liq. 2; H225

**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**



GHS02



GHS07

**Signal word**

Danger

**Hazard statements**

H225

Highly flammable liquid and vapour.

H319

Causes serious eye irritation.

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#### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P370+P378 In case of fire: Use water spray, extinguishing powder, foam or CO<sub>2</sub> to extinguish.  
 P501 Dispose of contents/container to a facility in accordance with local and national regulations.

#### Labelling information

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

### 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

Alcoholic solution of organic pigments, binding agents and additives.

#### Hazardous ingredients

| No | Substance name                             | Additional information                   |                            |
|----|--|--|----------------------------|
|    | CAS / EC / Index / REACH no                | Classification (EC) 1272/2008 (CLP)      | Concentration %            |
| 1  | ethanol                                    |  | pls. refer to footnote (1) |
|    | 64-17-5<br>200-578-6<br>603-002-00-5<br>-  | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319 | >= 50.00 - < 100.00 %-b.w. |
| 2  | 1-methoxy-2-propanol                       |  |                            |
|    | 107-98-2<br>203-539-1<br>603-064-00-3<br>- | Flam. Liq. 3; H226<br>STOT SE 3; H336    | >= 10.00 - < 25.00 %-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) |
|----|------|-------------------------------|------------------|--------------------|
| 1  | -    | Eye Irrit. 2; H319: C >= 50%  | -                | -                  |

### 3.3 Other information

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.

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**After eye contact**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

**After ingestion**

Do not induce vomiting. Call a doctor immediately. 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)

**5.3 Advice for firefighters**

Use self-contained breathing apparatus. Wear protective clothing.

## 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. Keep away sources of ignition.

**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. Do not discharge into the subsoil/soil.

**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**

**Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far as it is possible by the state of the art.

**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.

**Advice on protection against fire and explosion**

Vapours can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition. Use explosion-proof equipment/fittings and non-sparking tools.

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## 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.

### Advice on storage assembly

None known

## 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   | ethanol                           | 64-17-5                | 200-578-6              |
| <b>List of approved workplace exposure limits (WELs) / EH40</b> |                                   |                        |                        |
| Ethanol   |                                   |                        |                        |
|   | TWA                               | 1920 mg/m <sup>3</sup> | 1000 ml/m <sup>3</sup> |
| 2   | 1-methoxy-2-propanol              | 107-98-2               | 203-539-1              |
| <b>2000/39/EWG</b>  |                                   |                        |                        |
| 1-Methoxypropanol-2   |                                   |                        |                        |
|   | STEL                              | 568 mg/m <sup>3</sup>  | 150 ml/m <sup>3</sup>  |
|   | TWA                               | 375 mg/m <sup>3</sup>  | 100 ml/m <sup>3</sup>  |
|   | Skin resorption / sensibilisation | Skin                   |                        |
| <b>List of approved workplace exposure limits (WELs) / EH40</b> |                                   |                        |                        |
| 1-Methoxypropan-2-ol  |                                   |                        |                        |
|   | STEL                              | 560 mg/m <sup>3</sup>  | 150 ml/m <sup>3</sup>  |
|   | TWA                               | 375 mg/m <sup>3</sup>  | 100 ml/m <sup>3</sup>  |
|   | Skin resorption / sensibilisation | 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

Normal chemical work clothing.

##### Environmental exposure controls

No data available.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |                              |
|--|------------------------------|
| <b>Form/Colour</b>   |                              |
| liquid   |                              |
| black  |                              |
| <b>Odour</b>   |                              |
| characteristic   |                              |
| <b>Odour threshold</b>   |                              |
| No data available  |                              |
| <b>pH value</b>  |                              |
| not determined   |                              |
| <b>Boiling point / boiling range</b>   |                              |
| Value  | 78 °C                        |
| <b>Melting point / melting range</b>   |                              |
| No data available  |                              |
| <b>Decomposition point / decomposition range</b>   |                              |
| No data available  |                              |
| <b>Flash point</b>   |                              |
| Value  | 13 °C                        |
| <b>Ignition temperature</b>  |                              |
| Value  | 287 °C                       |
| <b>Auto-ignition temperature</b>   |                              |
| Remarks  | Product is not selfigniting. |
| <b>Oxidising properties</b>  |                              |
| No data available  |                              |
| <b>Explosive properties</b>  |                              |
| This product is not explosive. In and after use danger of production of inflammable compounds. |                              |
| <b>Flammability (solid, gas)</b>   |                              |
| No data available  |                              |
| <b>Lower flammability or explosive limits</b>  |                              |
| Value  | 1.7 % vol                    |
| <b>Upper flammability or explosive limits</b>  |                              |
| Value  | 15.0 % vol                   |
| <b>Vapour pressure</b>   |                              |
| Value  | 59 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  |                              |
| <b>Density</b>   |                              |
| No data available  |                              |
| <b>Solubility in water</b>   |                              |
| Remarks  | partially miscible           |

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|   |        |
|---|--------|
| <b>Solubility(ies)</b>                        |        |
| No data available                             |        |
| <b>Partition coefficient: n-octanol/water</b> |        |
| No data available                             |        |
| <b>Viscosity</b>                              |        |
| No data available                             |        |
| <b>Solvent content</b>                        |        |
| Value   | 79.1 % |

## 9.2 Other information

|                          |
|--------------------------|
| <b>Other information</b> |
| No data available.       |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

None known

### 10.5 Incompatible materials

None known.

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

| <b>Acute oral toxicity</b>   |                      |          |                  |
|------------------------------|----------------------|----------|------------------|
| No                           | Substance name       | CAS no.  | EC no.           |
| 1                            | 1-methoxy-2-propanol | 107-98-2 | 203-539-1        |
| LD50                         |                      | 5660     | mg/kg bodyweight |
| Species                      | rat                  |          |                  |
| Source                       | Manufacturer         |          |                  |
| <b>Acute dermal toxicity</b> |                      |          |                  |
| No                           | Substance name       | CAS no.  | EC no.           |
| 1                            | 1-methoxy-2-propanol | 107-98-2 | 203-539-1        |
| LD50                         |                      | 9999.99  | mg/kg bodyweight |
| Species                      | rabbit               |          |                  |
| Source                       | Manufacturer         |          |                  |

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|   |
|---|
| <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>Delayed and immediate effects as well as chronic effects from short and long-term exposure</b>   |
| Inhalation of solvent vapours in higher concentration may lead to nausea, headache, drowsiness and dizziness.<br>Repeated and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin. |

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## 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.

### 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

|  |
|--|
| <b>Other information</b>                                   |
| 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.



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**Region:** GB

**SECTION 14: Transport information**

**14.1 Transport ADR/RID/ADN**

|                           |        |
|---------------------------|--------|
| Class                     | 3      |
| Classification code       | F1     |
| Packing group             | II     |
| Hazard identification no. | 33     |
| UN number                 | UN1263 |
| Technical name            | PAINT  |
| Special Provision 640     | 640D   |
| Tunnel restriction code   | D/E    |
| Label                     | 3      |

**14.2 Transport IMDG**

|                      |         |
|----------------------|---------|
| Class                | 3       |
| Packing group        | II      |
| UN number            | UN1263  |
| Proper shipping name | PAINT   |
| EmS                  | F-E+S-E |
| Label                | 3       |

**14.3 Transport ICAO-TI / IATA**

|                      |        |
|----------------------|--------|
| Class                | 3      |
| Packing group        | II     |
| UN number            | UN1263 |
| Proper shipping name | Paint  |
| Label                | 3      |

**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.

**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, 40 |
|---|----------|

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

|  |     |
|--|-----|
| This product is subject to Part I of Annex I, risk category: | P5b |
|--|-----|

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## 15.2 Chemical safety assessment

For this mixture a chemical safety assessment has not been carried out.

## 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)

|      |                                    |
|------|------------------------------------|
| H226 | Flammable liquid and vapour.       |
| H336 | May cause drowsiness or dizziness. |

### Department issuing safety data sheet

UMCO Umwelt Consult GmbH

Georg-Wilhelm-Str. 183 , D-21107 Hamburg

Tel.: +49 40 / 79 02 36 300 Fax: +49 40 / 79 02 36 357 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.

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**Trade name:** edding refill ink whiteboard marker (blue) BTK25 contained in : edding 360, edding 363

**Current version :** 4.1.0, issued: 16.12.2015

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**Region:** GB

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

### 1.1 Product identifier

**Trade name**

**edding refill ink whiteboard marker (blue) BTK25 contained in : edding 360, edding 363**

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

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

Refilling ink

**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)**

Aquatic Chronic 2; H411

Eye Irrit. 2; H319

Flam. Liq. 2; H225

STOT SE 3; H336

**Classification information**

Classification and labelling with respect to specific target organ toxicity (single exposure) are based on toxicological studies performed on the product (mixture).

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**



GHS02



GHS07



GHS09

**Signal word**

Danger

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### Hazard statements

H225 Highly flammable liquid and vapour.  
 H319 Causes serious eye irritation.  
 H336 May cause drowsiness or dizziness.  
 H411 Toxic to aquatic life with long lasting effects.

### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P271 Use only outdoors or in a well-ventilated area.  
 P370+P378 In case of fire: Use water spray, extinguishing powder, foam or CO2 for extinction.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local and national regulations.

### Labelling information

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

## 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

Alcoholic solution of organic pigments, binding agents and additives.

#### Hazardous ingredients

| No | Substance name   |   | Additional information |        |
|----|--|---|------------------------|--------|
|    | CAS / EC / Index / REACH no                              | Classification (EC) 1272/2008 (CLP)                         | Concentration          | %      |
| 1  | <b>ethanol</b>   |   |                        |        |
|    | 64-17-5<br>200-578-6<br>603-002-00-5<br>01-2119457610-43 | Flam. Liq. 2; H225  | < 60.00                | %-b.w. |
| 2  | <b>propan-2-ol</b>                                       |   |                        |        |
|    | 67-63-0<br>200-661-7<br>603-117-00-0<br>01-2119457558-25 | Eye Irrit. 2; H319<br>Flam. Liq. 2; H225<br>STOT SE 3; H336 | < 15.00                | %-b.w. |
| 3  | <b>Bis(2-ethylhexyl) maleate</b>                         |   |                        |        |
|    | 142-16-5<br>205-524-5<br>-<br>01-2119524002-60           | STOT RE 2; H373<br>Aquatic Chronic 1; H410                  | < 10.00                | %-b.w. |

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

### 3.3 Other information

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.

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**After inhalation**

Remove affected person from the immediate area. Ensure supply of fresh air.

**After skin contact**

Wash immediately with plenty of water for several minutes.

**After eye contact**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

**After ingestion**

Do not induce vomiting. Call a doctor immediately. 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)

**5.3 Advice for firefighters**

Use self-contained breathing apparatus. Cool endangered containers with water spray jet. Run-off water from fire fighting must not be discharged into drains or enter surface water. Wear protective clothing.

## 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. Keep away sources of ignition.

**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. Do not discharge into the subsoil/soil.

**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**

**Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation, if necessary). Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far it is possible by the state of the art.

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**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.

**Advice on protection against fire and explosion**

Vapours can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition. Use explosion-proof equipment/fittings and non-sparking tools.

**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.

**Advice on storage assembly**

Do not store together with: Oxidizing agents; Alkali metals; Earth alkali metals; Acids; Peroxides

**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   | ethanol        | 64-17-5                | 200-578-6              |
| <b>List of approved workplace exposure limits (WELs) / EH40</b> |                |                        |                        |
| Ethanol   |                |                        |                        |
|   | TWA            | 1920 mg/m <sup>3</sup> | 1000 ml/m <sup>3</sup> |
| 2   | propan-2-ol    | 67-63-0                | 200-661-7              |
| <b>List of approved workplace exposure limits (WELs) / EH40</b> |                |                        |                        |
| Propan-2-ol   |                |                        |                        |
|   | STEL           | 1250 mg/m <sup>3</sup> | 500 ml/m <sup>3</sup>  |
|   | TWA            | 999 mg/m <sup>3</sup>  | 400 ml/m <sup>3</sup>  |

**DNEL and PNEC values**

**DNEL values (worker)**

| No | Substance name            |                     |          | CAS / EC no                         |
|----|---------------------------|---------------------|----------|-------------------------------------|
|    | Route of exposure         | Exposure time       | Effect   | Value                               |
| 1  | ethanol                   |                     |          | <b>64-17-5</b><br><b>200-578-6</b>  |
|    | dermal                    | Long term (chronic) | systemic | 343 mg/kg/day                       |
|    | inhalative                | Long term (chronic) | systemic | 950 mg/m <sup>3</sup>               |
|    | inhalative                | Short term (acute)  | local    | 1900 mg/m <sup>3</sup>              |
| 2  | propan-2-ol               |                     |          | <b>67-63-0</b><br><b>200-661-7</b>  |
|    | dermal                    | Long term (chronic) | systemic | 888 mg/kg/day                       |
|    | inhalative                | Long term (chronic) | systemic | 500 mg/m <sup>3</sup>               |
| 3  | Bis(2-ethylhexyl) maleate |                     |          | <b>142-16-5</b><br><b>205-524-5</b> |
|    | dermal                    | Long term (chronic) | local    | 3.91 mg/kg/day                      |
|    | dermal                    | Long term (chronic) | systemic | 0.42 mg/kg/day                      |
|    | inhalative                | Long term (chronic) | local    | 1.95 mg/m <sup>3</sup>              |
|    | inhalative                | Long term (chronic) | systemic | 1.95 mg/m <sup>3</sup>              |

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**DNEL value (consumer)**

| No | Substance name     |                     |          | CAS / EC no                        |
|----|--------------------|---------------------|----------|------------------------------------|
|    | Route of exposure  | Exposure time       | Effect   | Value                              |
| 1  | <b>ethanol</b>     |                     |          | <b>64-17-5</b><br><b>200-578-6</b> |
|    | oral               | Long term (chronic) | systemic | 87 mg/kg/day                       |
|    | dermal             | Long term (chronic) | systemic | 206 mg/kg/day                      |
|    | inhalative         | Short term (acut)   | local    | 950 mg/m <sup>3</sup>              |
|    | inhalative         | Long term (chronic) | systemic | 114 mg/m <sup>3</sup>              |
| 2  | <b>propan-2-ol</b> |                     |          | <b>67-63-0</b><br><b>200-661-7</b> |
|    | oral               | Long term (chronic) | systemic | 26 mg/kg/day                       |
|    | dermal             | Long term (chronic) | systemic | 319 mg/kg/day                      |
|    | inhalative         | Long term (chronic) | systemic | 89 mg/m <sup>3</sup>               |

**PNEC values**

| No                      | Substance name                   |                       | CAS / EC no                         |
|-------------------------|----------------------------------|-----------------------|-------------------------------------|
|                         | ecological compartment           | Type                  | Value                               |
| 1                       | <b>ethanol</b>                   |                       | <b>64-17-5</b><br><b>200-578-6</b>  |
|                         | water                            | fresh water           | 0.96 mg/l                           |
|                         | water                            | marine water          | 0.79 mg/l                           |
|                         | water                            | fresh water sediment  | 3.6 mg/kg                           |
|                         | with reference to: dry weight    |                       |                                     |
|                         | water                            | Aqua intermittent     | 2.75 mg/l                           |
|                         | soil                             | -                     | 0.63 mg/kg                          |
|                         | with reference to: dry weight    |                       |                                     |
|                         | sewage treatment plant           | -                     | 580 mg/l                            |
|                         | secondary poisoning              | -                     | 0.72 g/kg                           |
| with reference to: food |                                  |                       |                                     |
| 2                       | <b>propan-2-ol</b>               |                       | <b>67-63-0</b><br><b>200-661-7</b>  |
|                         | water                            | fresh water           | 140.9 mg/l                          |
|                         | water                            | marine water          | 140.9 mg/l                          |
|                         | water                            | fresh water sediment  | 552 mg/l                            |
|                         | water                            | marine water sediment | 552 mg/l                            |
|                         | water                            | Aqua intermittent     | 140.9 mg/l                          |
|                         | soil                             | -                     | 28 mg/kg                            |
|                         | sewage treatment plant           | -                     | 2251 mg/l                           |
|                         | secondary poisoning              | -                     | 160 mg/kg                           |
| with reference to: food |                                  |                       |                                     |
| 3                       | <b>Bis(2-ethylhexyl) maleate</b> |                       | <b>142-16-5</b><br><b>205-524-5</b> |
|                         | water                            | fresh water           | 0.001 mg/l                          |
|                         | water                            | marine water          | 0.0001 mg/l                         |
|                         | water                            | fresh water sediment  | 15.95 mg/kg                         |
|                         | water                            | marine water sediment | 1.595 mg/kg                         |
|                         | soil                             | -                     | 3.19 mg/kg                          |
| sewage treatment plant  | -                                | 100 mg/l              |                                     |

**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. Short term: filter apparatus, Filter A

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#### 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.

|                      |                 |     |      |
|----------------------|-----------------|-----|------|
| Appropriate Material | butyl rubber    |     |      |
| Material thickness   |                 | 0.5 | mm   |
| Breakthrough time    | >               | 480 | min. |
| Appropriate Material | Polychloroprene |     |      |
| Material thickness   |                 | 0.5 | mm   |
| Breakthrough time    | >               | 120 | min. |

#### Other

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   |           |
| <b>Odour</b>                                     |           |
| characteristic                                   |           |
| <b>Odour threshold</b>                           |           |
| No data available                                |           |
| <b>pH value</b>                                  |           |
| Value  | 3 - 9     |
| <b>Boiling point / boiling range</b>             |           |
| Value  | 78.3 °C   |
| <b>Melting point / melting range</b>             |           |
| Value  | -114.5 °C |
| <b>Decomposition point / decomposition range</b> |           |
| No data available                                |           |
| <b>Flash point</b>                               |           |
| Value  | 12 °C     |
| <b>Auto-ignition temperature</b>                 |           |
| Value  | 425 °C    |
| <b>Oxidising properties</b>                      |           |
| No data available                                |           |
| <b>Explosive properties</b>                      |           |
| No data available                                |           |
| <b>Flammability (solid, gas)</b>                 |           |
| No data available                                |           |
| <b>Lower flammability or explosive limits</b>    |           |
| Value  | 3.5 % vol |



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| Upper flammability or explosive limits |                |         |           |
|--|----------------|---------|-----------|
| Value                                  | 15.0           | % vol   |           |
| Vapour pressure                        |                |         |           |
| Value                                  | 59             | hPa     |           |
| Reference temperature                  | 20             | °C      |           |
| Vapour density                         |                |         |           |
| No data available                      |                |         |           |
| Evaporation rate                       |                |         |           |
| No data available                      |                |         |           |
| Relative density                       |                |         |           |
| No data available                      |                |         |           |
| Density                                |                |         |           |
| No data available                      |                |         |           |
| Solubility in water                    |                |         |           |
| Remarks                                | miscible       |         |           |
| Solubility(ies)                        |                |         |           |
| No data available                      |                |         |           |
| Partition coefficient: n-octanol/water |                |         |           |
| No                                     | Substance name | CAS no. | EC no.    |
| 1                                      | propan-2-ol    | 67-63-0 | 200-661-7 |
| log Pow                                |                | 0.05    |           |
| Reference temperature                  |                | 25      | °C        |
| Source                                 |                | ECHA    |           |
| Viscosity                              |                |         |           |
| Value                                  | 7.5            | - 12    | cP        |
| 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

Stable under recommended storage and handling conditions (See section 7).

### 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

Oxidizing agents; Alkali metals; Earth alkali metals; Acids; Peroxides

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

| Acute oral toxicity |                           |          |                  |
|---------------------|---------------------------|----------|------------------|
| No                  | Substance name            | CAS no.  | EC no.           |
| 1                   | ethanol                   | 64-17-5  | 200-578-6        |
| LD50                |                           | 10740    | mg/kg bodyweight |
| Species             | rat                       |          |                  |
| Method              | OECD 401                  |          |                  |
| Source              | ECHA                      |          |                  |
| 2                   | propan-2-ol               | 67-63-0  | 200-661-7        |
| LD50                |                           | 5840     | mg/kg bodyweight |
| Species             | rat                       |          |                  |
| Method              | OECD 401                  |          |                  |
| Source              | ECHA                      |          |                  |
| 3                   | Bis(2-ethylhexyl) maleate | 142-16-5 | 205-524-5        |
| LD50                | >                         | 2000     | mg/kg bodyweight |
| Species             | rat                       |          |                  |
| Method              | OECD 401                  |          |                  |
| Source              | ECHA                      |          |                  |

| Acute dermal toxicity |                           |          |                  |
|-----------------------|---------------------------|----------|------------------|
| No                    | Substance name            | CAS no.  | EC no.           |
| 1                     | Bis(2-ethylhexyl) maleate | 142-16-5 | 205-524-5        |
| LD50                  |                           | 14000    | mg/kg bodyweight |
| Species               | rabbit                    |          |                  |
| Source                | ECHA                      |          |                  |

| Acute inhalational toxicity |                |         |           |
|-----------------------------|----------------|---------|-----------|
| No                          | Substance name | CAS no. | EC no.    |
| 1                           | ethanol        | 64-17-5 | 200-578-6 |
| LC50                        |                | 124.7   | mg/l      |
| Duration of exposure        |                | 4       | h         |
| State of aggregation        | Dust/mist      |         |           |
| Species                     | rat            |         |           |
| Method                      | OECD 403       |         |           |
| Source                      | ECHA           |         |           |
| 2                           | propan-2-ol    | 67-63-0 | 200-661-7 |
| LC50                        | >              | 10000   | ppmV      |
| Duration of exposure        |                | 6       | h         |
| State of aggregation        | Gas            |         |           |
| Species                     | rat            |         |           |
| Method                      | OECD 403       |         |           |
| Source                      | ECHA           |         |           |

| Skin corrosion/irritation |                |         |           |
|---------------------------|----------------|---------|-----------|
| No                        | Substance name | CAS no. | EC no.    |
| 1                         | propan-2-ol    | 67-63-0 | 200-661-7 |
| Species                   | rabbit         |         |           |
| Source                    | ECHA           |         |           |
| Evaluation                | non-irritant   |         |           |

| Serious eye damage/irritation |                |         |           |
|-------------------------------|----------------|---------|-----------|
| No                            | Substance name | CAS no. | EC no.    |
| 1                             | propan-2-ol    | 67-63-0 | 200-661-7 |
| Species                       | rabbit         |         |           |
| Method                        | OECD 405       |         |           |
| Source                        | ECHA           |         |           |
| Evaluation                    | irritant       |         |           |

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| <b>Respiratory or skin sensitisation</b>  |  |   |           |
|---|--|---|-----------|
| No  | Substance name   | CAS no.   | EC no.    |
| 1   | ethanol  | 64-17-5   | 200-578-6 |
| Route of exposure   |  | Skin  |           |
| Species   |  | mouse   |           |
| Method  |  | OECD 429  |           |
| Source  |  | ECHA  |           |
| Evaluation  |  | non-sensitizing   |           |
| 2   | propan-2-ol  | 67-63-0   | 200-661-7 |
| Route of exposure   |  | Skin  |           |
| Species   |  | guinea pig  |           |
| Method  |  | OECD 406  |           |
| Source  |  | ECHA  |           |
| Evaluation  |  | non-sensitizing   |           |
| <b>Germ cell mutagenicity</b>   |  |   |           |
| No  | Substance name   | CAS no.   | EC no.    |
| 1   | ethanol  | 64-17-5   | 200-578-6 |
| Source  |  | ECHA  |           |
| Evaluation/classification   |  | Based on available data, the classification criteria are not met. |           |
| 2   | propan-2-ol  | 67-63-0   | 200-661-7 |
| Source  |  | ECHA  |           |
| Evaluation/classification   |  | Based on available data, the classification criteria are not met. |           |
| <b>Reproduction toxicity</b>  |  |   |           |
| No  | Substance name   | CAS no.   | EC no.    |
| 1   | ethanol  | 64-17-5   | 200-578-6 |
| Source  |  | ECHA  |           |
| Evaluation/classification   |  | Based on available data, the classification criteria are not met. |           |
| <b>Carcinogenicity</b>  |  |   |           |
| No  | Substance name   | CAS no.   | EC no.    |
| 1   | ethanol  | 64-17-5   | 200-578-6 |
| Source  |  | ECHA  |           |
| Evaluation/classification   |  | Based on available data, the classification criteria are not met. |           |
| <b>STOT-single exposure</b>   |  |   |           |
| No  | Product Name   |   |           |
| 1   | edding refill ink whiteboard marker (blue) BTK25 contained in : edding 360, edding 363 |   |           |
| Source  |  | Manufacturer  |           |
| Evaluation/classification   |  | Based on available data, the classification criteria are met.     |           |
| <b>STOT-repeated exposure</b>   |  |   |           |
| No data available   |  |   |           |
| <b>Aspiration hazard</b>  |  |   |           |
| No data available   |  |   |           |
| <b>Delayed and immediate effects as well as chronic effects from short and long-term exposure</b>   |  |   |           |
| Inhalation of solvent vapours in higher concentration may lead to nausea, headache, drowsiness and dizziness. 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. |  |   |           |

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## SECTION 12: Ecological information

### 12.1 Toxicity

| Toxicity to fish (acute)  |   |         |           |
|---------------------------|---|---------|-----------|
| No                        | Substance name  | CAS no. | EC no.    |
| 1                         | ethanol   | 64-17-5 | 200-578-6 |
| LC50                      | >   | 14000   | mg/l      |
| Duration of exposure      |   | 96      | h         |
| Species                   | Pimephales promelas   |         |           |
| Method                    | EPA E03-05  |         |           |
| Source                    | ECHA  |         |           |
| Evaluation/classification | Based on available data, the classification criteria are not met. |         |           |
| 2                         | propan-2-ol   | 67-63-0 | 200-661-7 |
| LC50                      |   | 9640    | mg/l      |
| Duration of exposure      |   | 96      | h         |
| Species                   | Pimephales promelas   |         |           |
| Method                    | OECD 203  |         |           |
| Source                    | ECHA  |         |           |

| Toxicity to fish (chronic) |  |  |  |
|----------------------------|--|--|--|
| No data available          |  |  |  |

| Toxicity to Daphnia (acute) |  |  |  |
|-----------------------------|--|--|--|
| No data available           |  |  |  |

| Toxicity to Daphnia (chronic) |  |  |  |
|-------------------------------|--|--|--|
| No data available             |  |  |  |

| Toxicity to algae (acute) |  |  |  |
|---------------------------|--|--|--|
| No data available         |  |  |  |

| Toxicity to algae (chronic) |  |  |  |
|-----------------------------|--|--|--|
| No data available           |  |  |  |

| Bacteria toxicity |  |  |  |
|-------------------|--|--|--|
| No data available |  |  |  |

### 12.2 Persistence and degradability

| Biodegradability |                       |         |           |
|------------------|-----------------------|---------|-----------|
| No               | Substance name        | CAS no. | EC no.    |
| 1                | propan-2-ol           | 67-63-0 | 200-661-7 |
| Type             | BOD/COD               |         |           |
| Value            |                       | 53      | %         |
| Duration         |                       | 5       | day(s)    |
| Source           | ECHA                  |         |           |
| Evaluation       | readily biodegradable |         |           |

### 12.3 Bioaccumulative potential

| Partition coefficient: n-octanol/water |                |         |           |
|--|----------------|---------|-----------|
| No                                     | Substance name | CAS no. | EC no.    |
| 1                                      | propan-2-ol    | 67-63-0 | 200-661-7 |
| log Pow                                |                | 0.05    |           |
| Reference temperature                  |                | 25      | °C        |
| Source                                 | ECHA           |         |           |

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## 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

|  |                                       |
|--|---------------------------------------|
| Class                                    | 3                                     |
| Classification code                      | F1                                    |
| Packing group                            | II                                    |
| Hazard identification no.                | 33                                    |
| UN number                                | UN1263                                |
| Technical name                           | PAINT                                 |
| Danger releasing substance               | ethanol<br>bis (2-ethylhexyl) maleate |
| Special Provision 640                    | 640D                                  |
| Tunnel restriction code                  | D/E                                   |
| Label                                    | 3                                     |
| Environmentally hazardous substance mark | Symbol "fish and tree"                |

### 14.2 Transport IMDG

|                            |                                       |
|----------------------------|---------------------------------------|
| Class                      | 3                                     |
| Packing group              | II                                    |
| UN number                  | UN1263                                |
| Proper shipping name       | PAINT                                 |
| Danger releasing substance | ethanol<br>bis (2-ethylhexyl) maleate |
| EmS                        | F-E+S-E                               |
| Label                      | 3                                     |
| Marine pollutant mark      | Symbol "fish and tree"                |

### 14.3 Transport ICAO-TI / IATA

|                      |        |
|----------------------|--------|
| Class                | 3      |
| Packing group        | II     |
| UN number            | UN1263 |
| Proper shipping name | Paint  |
| Label                | 3      |

**Trade name:** edding refill ink whiteboard marker (blue) BTK25 contained in : edding 360, edding 363

**Current version :** 4.1.0, issued: 16.12.2015

**Replaced version:** 4.0.0, issued: 16.12.2015

**Region:** GB

**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.

**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, 40 |
|---|----------|

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

|   |         |
|---|---------|
| This product is subject to Part I of Annex I, risk category:  | E2, P5b |
| If the properties of the substance/product give rise to more than one classification, for the purposes of 2012/18/UE, the lowest qualifying quantities set out in Part 1 and Part 2 of Annex I shall apply. |         |

**15.2 Chemical safety assessment**

For this mixture a chemical safety assessment has not been carried out.

**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)**

|      |   |
|------|---|
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H410 | Very toxic to aquatic life with long lasting effects.             |

**Department issuing safety data sheet**

UMCO Umwelt Consult GmbH

Georg-Wilhelm-Str. 183 , D-21107 Hamburg

Tel.: +49 40 / 79 02 36 300 Fax: +49 40 / 79 02 36 357 e-mail: umco@umco.de

This information is based on our present state of knowledge and experience.

The security data sheet describes products with a view to the security requirements.

However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

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**Trade name:** edding refill ink whiteboard marker (blue) BTK25 contained in : edding 360, edding 363

**Current version :** 4.1.0, issued: 16.12.2015

**Replaced version:** 4.0.0, issued: 16.12.2015

**Region:** GB

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Alterations/supplements:

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

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**Trade name:** edding boardmarker ink (brown) contained in: edding 360, edding 363

**Current version :** 3.0.0, issued: 23.10.2015

**Replaced version:** 2.0.0, issued: 30.06.2015

**Region:** GB

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

### 1.1 Product identifier

**Trade name**

**edding boardmarker ink (brown) contained in: edding 360, edding 363**

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

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

Refilling ink

**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)**

Eye Dam. 1; H318

Flam. Liq. 3; H226

STOT SE 3; H336

**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**



GHS02



GHS05



GHS07

**Signal word**

Danger

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

propan-1-ol



**Trade name:** edding boardmarker ink (brown) contained in: edding 360, edding 363

**Current version :** 3.0.0, issued: 23.10.2015

**Replaced version:** 2.0.0, issued: 30.06.2015

**Region:** GB

### Hazard statements

H226 Flammable liquid and vapour.  
 H318 Causes serious eye damage.  
 H336 May cause drowsiness or dizziness.

### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER/doctor.  
 P370+P378 In case of fire: Use water spray, extinguishing powder, foam or CO2 for extinction.  
 P405 Store locked up.  
 P501 Dispose of contents/container 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

Alcoholic solution of organic pigments, binding agents and additives.

#### Hazardous ingredients

| No | Substance name                            | Additional information                                    |                            |
|----|---|---|----------------------------|
|    | CAS / EC / Index / REACH no               | Classification (EC) 1272/2008 (CLP)                       | Concentration %            |
| 1  | <b>propan-1-ol</b>                        |   |                            |
|    | 71-23-8<br>200-746-9<br>603-003-00-0<br>- | Eye Dam. 1; H318<br>Flam. Liq. 2; H225<br>STOT SE 3; H336 | 50.00 - 100.00 %-b.w.      |
| 2  | <b>ethanol</b>                            |   | pls. refer to footnote (1) |
|    | 64-17-5<br>200-578-6<br>603-002-00-5<br>- | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319                  | 2.50 - 10.00 %-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  | -    | Eye Irrit. 2; H319: C >= 50%  | -                | -                  |

### 3.3 Other information

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.

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**Region:** GB

**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**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

**After ingestion**

Do not induce vomiting. Call a doctor immediately. 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)

**5.3 Advice for firefighters**

Cool endangered containers with water spray jet. Use self-contained breathing apparatus. Suppress gases/vapours/mists with water spray jet. Wear protective clothing.

## 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. Keep away sources of ignition.

**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. Do not discharge into the subsoil/soil.

**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**

**Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far as it is possible by the state of the art.

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**Region:** GB

#### 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.

#### Advice on protection against fire and explosion

Vapours can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition. Use explosion-proof equipment/fittings and non-sparking tools.

### 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   | propan-1-ol                       | 71-23-8 | 200-746-9                                |
| <b>List of approved workplace exposure limits (WELs) / EH40</b> |                                   |         |  |
| Propan-1-ol   |                                   |         |  |
|   | STEL                              | 625     | mg/m <sup>3</sup> 250 ml/m <sup>3</sup>  |
|   | TWA                               | 500     | mg/m <sup>3</sup> 200 ml/m <sup>3</sup>  |
|   | Skin resorption / sensibilisation | Sk      |  |
| 2   | ethanol                           | 64-17-5 | 200-578-6                                |
| <b>List of approved workplace exposure limits (WELs) / EH40</b> |                                   |         |  |
| Ethanol   |                                   |         |  |
|   | TWA                               | 1920    | mg/m <sup>3</sup> 1000 ml/m <sup>3</sup> |

### 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

Normal chemical work clothing.

##### Environmental exposure controls

No data available.

**Trade name:** edding boardmarker ink (brown) contained in: edding 360, edding 363

**Current version :** 3.0.0, issued: 23.10.2015

**Replaced version:** 2.0.0, issued: 30.06.2015

**Region:** GB

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |                              |                   |
|--|------------------------------|-------------------|
| <b>Form/Colour</b>   |                              |                   |
| liquid   |                              |                   |
| brown  |                              |                   |
| <b>Odour</b>   |                              |                   |
| characteristic   |                              |                   |
| <b>Odour threshold</b>   |                              |                   |
| No data available  |                              |                   |
| <b>pH value</b>  |                              |                   |
| No data available  |                              |                   |
| <b>Boiling point / boiling range</b>   |                              |                   |
| Value  | 96                           | °C                |
| <b>Melting point / melting range</b>   |                              |                   |
| No data available  |                              |                   |
| <b>Decomposition point / decomposition range</b>   |                              |                   |
| No data available  |                              |                   |
| <b>Flash point</b>   |                              |                   |
| Value  | 23                           | °C                |
| <b>Ignition temperature</b>  |                              |                   |
| Value  | 360                          | °C                |
| <b>Auto-ignition temperature</b>   |                              |                   |
| Remarks  | Product is not selfigniting. |                   |
| <b>Oxidising properties</b>  |                              |                   |
| No data available  |                              |                   |
| <b>Explosive properties</b>  |                              |                   |
| This product is not explosive. In and after use danger of production of inflammable compounds. |                              |                   |
| <b>Flammability (solid, gas)</b>   |                              |                   |
| No data available  |                              |                   |
| <b>Lower flammability or explosive limits</b>  |                              |                   |
| Value  | 2.1                          | % vol             |
| <b>Upper flammability or explosive limits</b>  |                              |                   |
| Value  | 13.5                         | % vol             |
| <b>Vapour pressure</b>   |                              |                   |
| Value  | 19                           | 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  |                              |                   |
| <b>Density</b>   |                              |                   |
| Value  | 0.85                         | g/cm <sup>3</sup> |
| Reference temperature  | 20                           | °C                |

**Trade name:** edding boardmarker ink (brown) contained in: edding 360, edding 363

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**Region:** GB

| Solubility in water |                    |
|---------------------|--------------------|
| Remarks             | partially miscible |

| Solubility(ies)   |  |
|-------------------|--|
| No data available |  |

| Partition coefficient: n-octanol/water |  |
|--|--|
| No data available                      |  |

| Viscosity             |         |       |  |
|-----------------------|---------|-------|--|
| Value                 | 6       | mPa*s |  |
| Reference temperature | 20      | °C    |  |
| Type                  | dynamic |       |  |

| Solvent content |      |   |
|-----------------|------|---|
| Value           | 82.7 | % |

| Solids content |     |   |
|----------------|-----|---|
| Value          | 4.4 | % |

## 9.2 Other information

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

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

No data available.

### 10.5 Incompatible materials

No data available.

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

| Acute oral toxicity |                |         |                  |
|---------------------|----------------|---------|------------------|
| No                  | Substance name | CAS no. | EC no.           |
| 1                   | propan-1-ol    | 71-23-8 | 200-746-9        |
| LD50                |                | 8000    | mg/kg bodyweight |
| Species             | rat            |         |                  |
| Source              | Manufacturer   |         |                  |

| Acute dermal toxicity |                |         |                  |
|-----------------------|----------------|---------|------------------|
| No                    | Substance name | CAS no. | EC no.           |
| 1                     | propan-1-ol    | 71-23-8 | 200-746-9        |
| LD50                  |                | 4000    | mg/kg bodyweight |
| Species               | rabbit         |         |                  |
| Source                | Manufacturer   |         |                  |

**Trade name:** edding boardmarker ink (brown) contained in: edding 360, edding 363

**Current version :** 3.0.0, issued: 23.10.2015

**Replaced version:** 2.0.0, issued: 30.06.2015

**Region:** GB

| <b>Acute inhalational toxicity</b>  |                |         |           |
|---|----------------|---------|-----------|
| No  | Substance name | CAS no. | EC no.    |
| 1   | propan-1-ol    | 71-23-8 | 200-746-9 |
| LC50  | >              | 33.8    | mg/l      |
| Duration of exposure  |                | 4       | h         |
| State of aggregation  | Vapour         |         |           |
| Species   | rat            |         |           |
| Method  | OECD 403       |         |           |
| Source  | ECHA           |         |           |
| <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>Delayed and immediate effects as well as chronic effects from short and long-term exposure</b>   |                |         |           |
| Inhalation of solvent vapours in higher concentration may lead to nausea, headache, drowsiness and dizziness. 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. |                |         |           |

**Trade name:** edding boardmarker ink (brown) contained in: edding 360, edding 363

**Current version :** 3.0.0, issued: 23.10.2015

**Replaced version:** 2.0.0, issued: 30.06.2015

**Region:** GB

## 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.

### 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

|  |
|--|
| <b>Other information</b>                                   |
| 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.

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**Replaced version:** 2.0.0, issued: 30.06.2015

**Region:** GB

**SECTION 14: Transport information**

**14.1 Transport ADR/RID/ADN**

|                           |        |
|---------------------------|--------|
| Class                     | 3      |
| Classification code       | F1     |
| Packing group             | III    |
| Hazard identification no. | 30     |
| UN number                 | UN1263 |
| Technical name            | PAINT  |
| Special Provision 640     | 640E   |
| Tunnel restriction code   | D/E    |
| Label                     | 3      |

**14.2 Transport IMDG**

|                      |         |
|----------------------|---------|
| Class                | 3       |
| Packing group        | III     |
| UN number            | UN1263  |
| Proper shipping name | PAINT   |
| EmS                  | F-E+S-E |
| Label                | 3       |

**14.3 Transport ICAO-TI / IATA**

|                      |        |
|----------------------|--------|
| Class                | 3      |
| Packing group        | III    |
| UN number            | UN1263 |
| Proper shipping name | Paint  |
| Label                | 3      |

**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.

**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, 40 |
|---|----------|

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

|  |     |
|--|-----|
| This product is subject to Part I of Annex I, risk category: | P5c |
|--|-----|



**Trade name:** edding boardmarker ink (brown) contained in: edding 360, edding 363

**Current version :** 3.0.0, issued: 23.10.2015

**Replaced version:** 2.0.0, issued: 30.06.2015

**Region:** GB

## 15.2 Chemical safety assessment

For this mixture a chemical safety assessment has not been carried out.

## 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)

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

### Department issuing safety data sheet

UMCO Umwelt Consult GmbH

Georg-Wilhelm-Str. 183 , D-21107 Hamburg

Tel.: +49 40 / 79 02 36 300 Fax: +49 40 / 79 02 36 357 e-mail: umco@umco.de

This information is based on our present state of knowledge and experience.

The security data sheet describes products with a view to the security requirements.

However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

### Alterations/supplements:

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

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**Trade name:** edding boardmarker ink (yellow, orange) contained in: edding 360, edding 363

**Current version :** 4.0.0, issued: 23.10.2015

**Replaced version:** 3.0.0, issued: 30.06.2015

**Region:** GB

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

### 1.1 Product identifier

**Trade name**

**edding boardmarker ink (yellow, orange) contained in: edding 360, edding 363**

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

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

Refilling ink

**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)**

Eye Dam. 1; H318

Flam. Liq. 2; H225

STOT SE 3; H336

**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**



GHS02



GHS05



GHS07

**Signal word**

Danger

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

propan-1-ol

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#### Hazard statements

H225 Highly flammable liquid and vapour.  
H318 Causes serious eye damage.  
H336 May cause drowsiness or dizziness.

#### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.  
P370+P378 In case of fire: Use water spray, extinguishing powder, foam or CO2 for extinction.  
P405 Store locked up.  
P501 Dispose of contents/container 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

Alcoholic solution of organic pigments, binding agents and additives.

#### Hazardous ingredients

| No | Substance name                             | Additional information                                      |                           |
|----|--|---|---------------------------|
|    | CAS / EC / Index / REACH no                | Classification (EC) 1272/2008 (CLP)                         | Concentration %           |
| 1  | <b>propan-1-ol</b>                         |   |                           |
|    | 71-23-8<br>200-746-9<br>603-003-00-0<br>-  | Eye Dam. 1; H318<br>Flam. Liq. 2; H225<br>STOT SE 3; H336   | 50.00 - 100.00 %<br>-b.w. |
| 2  | <b>propan-2-ol</b>                         |   |                           |
|    | 67-63-0<br>200-661-7<br>603-117-00-0<br>-  | Eye Irrit. 2; H319<br>Flam. Liq. 2; H225<br>STOT SE 3; H336 | 2.50 - 10.00 %<br>-b.w.   |
| 3  | <b>1-methoxy-2-propanol</b>                |   |                           |
|    | 107-98-2<br>203-539-1<br>603-064-00-3<br>- | Flam. Liq. 3; H226<br>STOT SE 3; H336                       | 2.50 - 10.00 %<br>-b.w.   |

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

### 3.3 Other information

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.

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**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**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

**After ingestion**

Do not induce vomiting. Call a doctor immediately. 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)

**5.3 Advice for firefighters**

Cool endangered containers with water spray jet. Use self-contained breathing apparatus. Wear protective clothing. Suppress gases/vapours/mists 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. Keep away sources of ignition.

**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. Do not discharge into the subsoil/soil.

**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**

**Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far as it is possible by the state of the art.

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**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.

**Advice on protection against fire and explosion**

Vapours can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition. Use explosion-proof equipment/fittings and non-sparking tools.

**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   | propan-1-ol                       | 71-23-8                | 200-746-9             |
| <b>List of approved workplace exposure limits (WELs) / EH40</b> |                                   |                        |                       |
| Propan-1-ol   |                                   |                        |                       |
|   | STEL                              | 625 mg/m <sup>3</sup>  | 250 ml/m <sup>3</sup> |
|   | TWA                               | 500 mg/m <sup>3</sup>  | 200 ml/m <sup>3</sup> |
|   | Skin resorption / sensibilisation | Sk                     |                       |
| 2   | propan-2-ol                       | 67-63-0                | 200-661-7             |
| <b>List of approved workplace exposure limits (WELs) / EH40</b> |                                   |                        |                       |
| Propan-2-ol   |                                   |                        |                       |
|   | STEL                              | 1250 mg/m <sup>3</sup> | 500 ml/m <sup>3</sup> |
|   | TWA                               | 999 mg/m <sup>3</sup>  | 400 ml/m <sup>3</sup> |
| 3   | 1-methoxy-2-propanol              | 107-98-2               | 203-539-1             |
| <b>2000/39/EWG</b>  |                                   |                        |                       |
| 1-Methoxypropanol-2   |                                   |                        |                       |
|   | STEL                              | 568 mg/m <sup>3</sup>  | 150 ml/m <sup>3</sup> |
|   | TWA                               | 375 mg/m <sup>3</sup>  | 100 ml/m <sup>3</sup> |
|   | Skin resorption / sensibilisation | Skin                   |                       |
| <b>List of approved workplace exposure limits (WELs) / EH40</b> |                                   |                        |                       |
| 1-Methoxypropan-2-ol  |                                   |                        |                       |
|   | STEL                              | 560 mg/m <sup>3</sup>  | 150 ml/m <sup>3</sup> |
|   | TWA                               | 375 mg/m <sup>3</sup>  | 100 ml/m <sup>3</sup> |
|   | Skin resorption / sensibilisation | 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)

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#### 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

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   |                              |       |
| yellow; orange   |                              |       |
| <b>Odour</b>   |                              |       |
| characteristic   |                              |       |
| <b>Odour threshold</b>   |                              |       |
| No data available  |                              |       |
| <b>pH value</b>  |                              |       |
| No data available  |                              |       |
| <b>Boiling point / boiling range</b>   |                              |       |
| Value  | 82                           | °C    |
| <b>Melting point / melting range</b>   |                              |       |
| No data available  |                              |       |
| <b>Decomposition point / decomposition range</b>   |                              |       |
| No data available  |                              |       |
| <b>Flash point</b>   |                              |       |
| Value  | 13                           | °C    |
| <b>Ignition temperature</b>  |                              |       |
| Value  | 287                          | °C    |
| <b>Auto-ignition temperature</b>   |                              |       |
| Remarks  | Product is not selfigniting. |       |
| <b>Oxidising properties</b>  |                              |       |
| No data available  |                              |       |
| <b>Explosive properties</b>  |                              |       |
| This product is not explosive. In and after use danger of production of inflammable compounds. |                              |       |
| <b>Flammability (solid, gas)</b>   |                              |       |
| No data available  |                              |       |
| <b>Lower flammability or explosive limits</b>  |                              |       |
| Value  | 2.1                          | % vol |
| <b>Upper flammability or explosive limits</b>  |                              |       |
| Value  | 13.5                         | % vol |
| <b>Vapour pressure</b>   |                              |       |
| Value  | 19                           | hPa   |
| Reference temperature  | 20                           | °C    |

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|                       |  |
|-----------------------|--|
| <b>Vapour density</b> |  |
| No data available     |  |

|                         |  |
|-------------------------|--|
| <b>Evaporation rate</b> |  |
| No data available       |  |

|                         |  |
|-------------------------|--|
| <b>Relative density</b> |  |
| No data available       |  |

|                       |                              |
|-----------------------|------------------------------|
| <b>Density</b>        |                              |
| Value                 | 0.85 - 0.9 g/cm <sup>3</sup> |
| Reference temperature | 20 °C                        |

|                            |                    |
|----------------------------|--------------------|
| <b>Solubility in water</b> |                    |
| Remarks                    | partially miscible |

|                        |  |
|------------------------|--|
| <b>Solubility(ies)</b> |  |
| No data available      |  |

|   |  |
|---|--|
| <b>Partition coefficient: n-octanol/water</b> |  |
| No data available                             |  |

|                       |                |
|-----------------------|----------------|
| <b>Viscosity</b>      |                |
| Value                 | 7.5 - 14 mPa*s |
| Reference temperature | 20 °C          |
| Type                  | dynamic        |

|                        |               |
|------------------------|---------------|
| <b>Solvent content</b> |               |
| Value                  | 80.7 - 81.1 % |

|                       |             |
|-----------------------|-------------|
| <b>Solids content</b> |             |
| Value                 | 4.2 - 4.6 % |

## 9.2 Other information

|                          |  |
|--------------------------|--|
| <b>Other information</b> |  |
| No data available.       |  |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

No data available.

### 10.5 Incompatible materials

No data available.

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

| Acute oral toxicity |                      |          |                  |
|---------------------|----------------------|----------|------------------|
| No                  | Substance name       | CAS no.  | EC no.           |
| 1                   | propan-1-ol          | 71-23-8  | 200-746-9        |
| LD50                |                      | 8000     | mg/kg bodyweight |
| Species             | rat                  |          |                  |
| Source              | Manufacturer         |          |                  |
| 2                   | propan-2-ol          | 67-63-0  | 200-661-7        |
| LD50                |                      | 5280     | mg/kg bodyweight |
| Species             | rat                  |          |                  |
| Source              | Manufacturer         |          |                  |
| 3                   | 1-methoxy-2-propanol | 107-98-2 | 203-539-1        |
| LD50                |                      | 5660     | mg/kg bodyweight |
| Species             | rat                  |          |                  |
| Source              | Manufacturer         |          |                  |

| Acute dermal toxicity |                      |          |                  |
|-----------------------|----------------------|----------|------------------|
| No                    | Substance name       | CAS no.  | EC no.           |
| 1                     | propan-1-ol          | 71-23-8  | 200-746-9        |
| LD50                  |                      | 4000     | mg/kg bodyweight |
| Species               | rabbit               |          |                  |
| Source                | Manufacturer         |          |                  |
| 2                     | propan-2-ol          | 67-63-0  | 200-661-7        |
| LD50                  |                      | 12800    | mg/kg bodyweight |
| Species               | rabbit               |          |                  |
| Source                | Manufacturer         |          |                  |
| 3                     | 1-methoxy-2-propanol | 107-98-2 | 203-539-1        |
| LD50                  |                      | 9999.99  | mg/kg bodyweight |
| Species               | rabbit               |          |                  |
| Source                | Manufacturer         |          |                  |

| Acute inhalational toxicity |                |         |           |
|-----------------------------|----------------|---------|-----------|
| No                          | Substance name | CAS no. | EC no.    |
| 1                           | propan-1-ol    | 71-23-8 | 200-746-9 |
| LC50                        |                | 33.8    | mg/l      |
| Duration of exposure        | >              | 4       | h         |
| State of aggregation        | Vapour         |         |           |
| Species                     | rat            |         |           |
| Method                      | OECD 403       |         |           |
| Source                      | ECHA           |         |           |
| 2                           | propan-2-ol    | 67-63-0 | 200-661-7 |
| LC50                        |                | 72.6    | mg/l      |
| Duration of exposure        |                | 4       | h         |
| State of aggregation        | Vapour         |         |           |
| Species                     | rat            |         |           |
| Source                      | Manufacturer   |         |           |



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|   |
|---|
| <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>Delayed and immediate effects as well as chronic effects from short and long-term exposure</b>   |
| Inhalation of solvent vapours in higher concentration may lead to nausea, headache, drowsiness and dizziness. 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. |

## SECTION 12: Ecological information

### 12.1 Toxicity

| <b>Toxicity to fish (acute)</b>      |                         |         |           |
|--------------------------------------|-------------------------|---------|-----------|
| No                                   | Substance name          | CAS no. | EC no.    |
| 1                                    | propan-2-ol             | 67-63-0 | 200-661-7 |
| LC50                                 |                         | 9640    | mg/l      |
| Duration of exposure                 |                         | 96      | h         |
| Species                              | Pimephales promelas     |         |           |
| Source                               | Manufacturer            |         |           |
| <b>Toxicity to fish (chronic)</b>    |                         |         |           |
| No data available                    |                         |         |           |
| <b>Toxicity to Daphnia (acute)</b>   |                         |         |           |
| No                                   | Substance name          | CAS no. | EC no.    |
| 1                                    | propan-2-ol             | 67-63-0 | 200-661-7 |
| EC50                                 |                         | 13299   | mg/l      |
| Duration of exposure                 |                         | 48      | h         |
| Species                              | Daphnia magna           |         |           |
| Source                               | Manufacturer            |         |           |
| <b>Toxicity to Daphnia (chronic)</b> |                         |         |           |
| No data available                    |                         |         |           |
| <b>Toxicity to algae (acute)</b>     |                         |         |           |
| No                                   | Substance name          | CAS no. | EC no.    |
| 1                                    | propan-2-ol             | 67-63-0 | 200-661-7 |
| EC50                                 | >                       | 1000    | mg/l      |
| Duration of exposure                 |                         | 72      | h         |
| Species                              | Desmodesmus subspicatus |         |           |
| Source                               | Manufacturer            |         |           |

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|                                    |
|------------------------------------|
| <b>Toxicity to algae (chronic)</b> |
| No data available                  |

|                          |
|--------------------------|
| <b>Bacteria toxicity</b> |
| No data available        |

## 12.2 Persistence and degradability

| Biodegradability |                |                       |           |
|------------------|----------------|-----------------------|-----------|
| No               | Substance name | CAS no.               | EC no.    |
| 1                | propan-2-ol    | 67-63-0               | 200-661-7 |
|                  | Value          | 95                    | %         |
|                  | Duration       | 21                    | day(s)    |
|                  | Method         | OECD 301 E            |           |
|                  | Source         | Manufacturer          |           |
|                  | Evaluation     | readily biodegradable |           |

## 12.3 Bioaccumulative potential

No data available.

## 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

|  |
|--|
| <b>Other information</b>                                   |
| 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

|                           |        |
|---------------------------|--------|
| Class                     | 3      |
| Classification code       | F1     |
| Packing group             | II     |
| Hazard identification no. | 33     |
| UN number                 | UN1263 |
| Technical name            | PAINT  |
| Special Provision 640     | 640D   |
| Tunnel restriction code   | D/E    |
| Label                     | 3      |

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#### 14.2 Transport IMDG

|                      |         |
|----------------------|---------|
| Class                | 3       |
| Packing group        | II      |
| UN number            | UN1263  |
| Proper shipping name | PAINT   |
| EmS                  | F-E+S-E |
| Label                | 3       |

#### 14.3 Transport ICAO-TI / IATA

|                      |        |
|----------------------|--------|
| Class                | 3      |
| Packing group        | II     |
| UN number            | UN1263 |
| Proper shipping name | Paint  |
| Label                | 3      |

#### 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.

##### **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, 40 |
|---|----------|

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

|  |     |
|--|-----|
| This product is subject to Part I of Annex I, risk category: | P5b |
|--|-----|

#### 15.2 Chemical safety assessment

For this mixture a chemical safety assessment has not been carried out.

### 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.

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**Trade name:** edding boardmarker ink (yellow, orange) contained in: edding 360, edding 363

**Current version :** 4.0.0, issued: 23.10.2015

**Replaced version:** 3.0.0, issued: 30.06.2015

**Region:** GB

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

H226 Flammable liquid and vapour.  
H319 Causes serious eye irritation.

**Department issuing safety data sheet**

UMCO Umwelt Consult GmbH  
Georg-Wilhelm-Str. 183 , D-21107 Hamburg  
Tel.: +49 40 / 79 02 36 300 Fax: +49 40 / 79 02 36 357 e-mail: umco@umco.de

This information is based on our present state of knowledge and experience.  
The security data sheet describes products with a view to the security requirements.  
However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

**Alterations/supplements:**

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

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**Trade name:** edding refill ink whiteboard marker BT30, BTK25 (green) contained in: edding 360, edding 363

**Current version :** 4.1.0, issued: 22.10.2015

**Replaced version:** 4.0.0, issued: 10.09.2014

**Region:** GB

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

### 1.1 Product identifier

**Trade name**

**edding refill ink whiteboard marker BT30, BTK25 (green) contained in:  
edding 360, edding 363**

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

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

Refilling ink

**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)**

Eye Dam. 1; H318

Flam. Liq. 2; H225

STOT SE 3; H336

**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**



GHS02



GHS05



GHS07

**Signal word**

Danger

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

propan-1-ol

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#### Hazard statements

H225 Highly flammable liquid and vapour.  
H318 Causes serious eye damage.  
H336 May cause drowsiness or dizziness.

#### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.  
P370+P378 In case of fire: Use water spray, extinguishing powder, foam or CO2 for extinction.  
P405 Store locked up.  
P501 Dispose of contents/container 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>propan-1-ol</b>                         |   |                            |
|    | 71-23-8<br>200-746-9<br>603-003-00-0<br>-  | Eye Dam. 1; H318<br>Flam. Liq. 2; H225<br>STOT SE 3; H336   | >= 50.00 - < 100.00 %-b.w. |
| 2  | <b>propan-2-ol</b>                         |   |                            |
|    | 67-63-0<br>200-661-7<br>603-117-00-0<br>-  | Eye Irrit. 2; H319<br>Flam. Liq. 2; H225<br>STOT SE 3; H336 | >= 2.50 - <= 10.00 %-b.w.  |
| 3  | <b>1-methoxy-2-propanol</b>                |   |                            |
|    | 107-98-2<br>203-539-1<br>603-064-00-3<br>- | Flam. Liq. 3; H226<br>STOT SE 3; H336                       | >= 2.50 - <= 10.00 %-b.w.  |

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

### 3.3 Other information

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. Poisonous symptoms can first be observed after several hours, therefore medical observation for at least 48 hours is necessary.

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**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**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

**After ingestion**

Do not induce vomiting. Call a doctor immediately. 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)

**5.3 Advice for firefighters**

Cool endangered containers with water spray jet. Use self-contained breathing apparatus. Suppress gases/vapours/mists with water spray jet. Wear protective clothing.

## 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. Keep away sources of ignition.

**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. Do not discharge into the subsoil/soil.

**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**

**Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far as it is possible by the state of the art.

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#### 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.

#### Advice on protection against fire and explosion

Vapours can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition.

### 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.

#### Advice on storage assembly

None known

### 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   | propan-1-ol                       | 71-23-8  |                   | 200-746-9 |                   |
| <b>List of approved workplace exposure limits (WELs) / EH40</b> |                                   |          |                   |           |                   |
| Propan-1-ol   |                                   |          |                   |           |                   |
|   | STEL                              | 625      | mg/m <sup>3</sup> | 250       | ml/m <sup>3</sup> |
|   | TWA                               | 500      | mg/m <sup>3</sup> | 200       | ml/m <sup>3</sup> |
|   | Skin resorption / sensibilisation | Sk       |                   |           |                   |
| 2   | propan-2-ol                       | 67-63-0  |                   | 200-661-7 |                   |
| <b>List of approved workplace exposure limits (WELs) / EH40</b> |                                   |          |                   |           |                   |
| Propan-2-ol   |                                   |          |                   |           |                   |
|   | STEL                              | 1250     | mg/m <sup>3</sup> | 500       | ml/m <sup>3</sup> |
|   | TWA                               | 999      | mg/m <sup>3</sup> | 400       | ml/m <sup>3</sup> |
| 3   | 1-methoxy-2-propanol              | 107-98-2 |                   | 203-539-1 |                   |
| <b>2000/39/EWG</b>  |                                   |          |                   |           |                   |
| 1-Methoxypropanol-2   |                                   |          |                   |           |                   |
|   | STEL                              | 568      | mg/m <sup>3</sup> | 150       | ml/m <sup>3</sup> |
|   | TWA                               | 375      | mg/m <sup>3</sup> | 100       | ml/m <sup>3</sup> |
|   | Skin resorption / sensibilisation | Skin     |                   |           |                   |
| <b>List of approved workplace exposure limits (WELs) / EH40</b> |                                   |          |                   |           |                   |
| 1-Methoxypropan-2-ol  |                                   |          |                   |           |                   |
|   | STEL                              | 560      | mg/m <sup>3</sup> | 150       | ml/m <sup>3</sup> |
|   | TWA                               | 375      | mg/m <sup>3</sup> | 100       | ml/m <sup>3</sup> |
|   | Skin resorption / sensibilisation | 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.



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#### 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

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   |                              |
| green  |                              |
| <b>Odour</b>   |                              |
| characteristic   |                              |
| <b>Odour threshold</b>   |                              |
| No data available  |                              |
| <b>pH value</b>  |                              |
| No data available  |                              |
| <b>Boiling point / boiling range</b>   |                              |
| Value  | 82 °C                        |
| <b>Melting point / melting range</b>   |                              |
| No data available  |                              |
| <b>Decomposition point / decomposition range</b>   |                              |
| No data available  |                              |
| <b>Flash point</b>   |                              |
| Value  | 13 °C                        |
| <b>Ignition temperature</b>  |                              |
| Value  | 287 °C                       |
| <b>Auto-ignition temperature</b>   |                              |
| Remarks  | Product is not selfigniting. |
| <b>Oxidising properties</b>  |                              |
| No data available  |                              |
| <b>Explosive properties</b>  |                              |
| This product is not explosive. In and after use danger of production of inflammable compounds. |                              |
| <b>Flammability (solid, gas)</b>   |                              |
| No data available  |                              |
| <b>Lower flammability or explosive limits</b>  |                              |
| Value  | 2.1 % vol                    |
| <b>Upper flammability or explosive limits</b>  |                              |
| Value  | 13.5 % vol                   |

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|   |                    |       |  |
|---|--------------------|-------|--|
| <b>Vapour pressure</b>                        |                    |       |  |
| Value   | 19                 | 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                             |                    |       |  |
| <b>Density</b>                                |                    |       |  |
| no data available                             |                    |       |  |
| <b>Solubility in water</b>                    |                    |       |  |
| Remarks                                       | partially miscible |       |  |
| <b>Solubility(ies)</b>                        |                    |       |  |
| No data available                             |                    |       |  |
| <b>Partition coefficient: n-octanol/water</b> |                    |       |  |
| No data available                             |                    |       |  |
| <b>Viscosity</b>                              |                    |       |  |
| Value   | 11.5               | mPa*s |  |
| Reference temperature                         | 20                 | °C    |  |
| Type  | dynamic            |       |  |
| <b>Solvent content</b>                        |                    |       |  |
| Value   | 81.3               | %     |  |
| <b>Solids content</b>                         |                    |       |  |
| Value   | 6.5                | %     |  |

## 9.2 Other information

|                          |
|--------------------------|
| <b>Other information</b> |
| No data available.       |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

No data available.

### 10.5 Incompatible materials

No data available.

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

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**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

| <b>Acute oral toxicity</b> |                      |          |                  |
|----------------------------|----------------------|----------|------------------|
| No                         | Substance name       | CAS no.  | EC no.           |
| 1                          | propan-1-ol          | 71-23-8  | 200-746-9        |
| LD50                       |                      | 8000     | mg/kg bodyweight |
| Species                    | rat                  |          |                  |
| Source                     | Manufacturer         |          |                  |
| 2                          | propan-2-ol          | 67-63-0  | 200-661-7        |
| LD50                       |                      | 5280     | mg/kg bodyweight |
| Species                    | rat                  |          |                  |
| Source                     | Manufacturer         |          |                  |
| 3                          | 1-methoxy-2-propanol | 107-98-2 | 203-539-1        |
| LD50                       |                      | 5660     | mg/kg bodyweight |
| Species                    | rat                  |          |                  |
| Source                     | Manufacturer         |          |                  |

| <b>Acute dermal toxicity</b> |                      |          |                  |
|------------------------------|----------------------|----------|------------------|
| No                           | Substance name       | CAS no.  | EC no.           |
| 1                            | propan-1-ol          | 71-23-8  | 200-746-9        |
| LD50                         |                      | 4000     | mg/kg bodyweight |
| Species                      | rabbit               |          |                  |
| Source                       | Manufacturer         |          |                  |
| 2                            | propan-2-ol          | 67-63-0  | 200-661-7        |
| LD50                         |                      | 12800    | mg/kg bodyweight |
| Species                      | rabbit               |          |                  |
| Source                       | Manufacturer         |          |                  |
| 3                            | 1-methoxy-2-propanol | 107-98-2 | 203-539-1        |
| LD50                         |                      | 9999.99  | mg/kg bodyweight |
| Species                      | rabbit               |          |                  |
| Source                       | Manufacturer         |          |                  |

| <b>Acute inhalational toxicity</b> |                |         |           |
|------------------------------------|----------------|---------|-----------|
| No                                 | Substance name | CAS no. | EC no.    |
| 1                                  | propan-1-ol    | 71-23-8 | 200-746-9 |
| LC50                               |                | 33.8    | mg/l      |
| Duration of exposure               | >              | 4       | h         |
| State of aggregation               | Vapour         |         |           |
| Species                            | rat            |         |           |
| Method                             | OECD 403       |         |           |
| Source                             | ECHA           |         |           |
| 2                                  | propan-2-ol    | 67-63-0 | 200-661-7 |
| LC50                               |                | 72.6    | mg/l      |
| Duration of exposure               |                | 4       | h         |
| State of aggregation               | Vapour         |         |           |
| Species                            | rat            |         |           |
| Source                             | Manufacturer   |         |           |

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|   |
|---|
| <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>Delayed and immediate effects as well as chronic effects from short and long-term exposure</b>   |
| Inhalation of solvent vapours in higher concentration may lead to nausea, headache, drowsiness and dizziness. 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. |

## SECTION 12: Ecological information

### 12.1 Toxicity

| <b>Toxicity to fish (acute)</b>      |                         |         |           |
|--------------------------------------|-------------------------|---------|-----------|
| No                                   | Substance name          | CAS no. | EC no.    |
| 1                                    | propan-2-ol             | 67-63-0 | 200-661-7 |
| LC50                                 |                         | 9640    | mg/l      |
| Duration of exposure                 |                         | 96      | h         |
| Species                              | Pimephales promelas     |         |           |
| Source                               | Manufacturer            |         |           |
| <b>Toxicity to fish (chronic)</b>    |                         |         |           |
| No data available                    |                         |         |           |
| <b>Toxicity to Daphnia (acute)</b>   |                         |         |           |
| No                                   | Substance name          | CAS no. | EC no.    |
| 1                                    | propan-2-ol             | 67-63-0 | 200-661-7 |
| EC50                                 |                         | 13299   | mg/l      |
| Duration of exposure                 |                         | 48      | h         |
| Species                              | Daphnia magna           |         |           |
| Source                               | Manufacturer            |         |           |
| <b>Toxicity to Daphnia (chronic)</b> |                         |         |           |
| No data available                    |                         |         |           |
| <b>Toxicity to algae (acute)</b>     |                         |         |           |
| No                                   | Substance name          | CAS no. | EC no.    |
| 1                                    | propan-2-ol             | 67-63-0 | 200-661-7 |
| EC50                                 | >                       | 1000    | mg/l      |
| Duration of exposure                 |                         | 72      | h         |
| Species                              | Desmodesmus subspicatus |         |           |
| Source                               | Manufacturer            |         |           |

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|                                    |
|------------------------------------|
| <b>Toxicity to algae (chronic)</b> |
|------------------------------------|

|                   |
|-------------------|
| No data available |
|-------------------|

|                          |
|--------------------------|
| <b>Bacteria toxicity</b> |
|--------------------------|

|                   |
|-------------------|
| No data available |
|-------------------|

## 12.2 Persistence and degradability

|                         |
|-------------------------|
| <b>Biodegradability</b> |
|-------------------------|

| No         | Substance name        | CAS no. | EC no.    |
|------------|-----------------------|---------|-----------|
| 1          | propan-2-ol           | 67-63-0 | 200-661-7 |
| Value      |                       | 95      | %         |
| Duration   |                       | 21      | day(s)    |
| Method     | OECD 301 E            |         |           |
| Source     | Manufacturer          |         |           |
| Evaluation | readily biodegradable |         |           |

## 12.3 Bioaccumulative potential

No data available.

## 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

|                          |
|--------------------------|
| <b>Other information</b> |
|--------------------------|

|  |
|--|
| 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

|                           |                        |
|---------------------------|------------------------|
| Class                     | 3                      |
| Classification code       | F1                     |
| Packing group             | II                     |
| Hazard identification no. | 33                     |
| UN number                 | UN1263                 |
| Technical name            | PAINT RELATED MATERIAL |
| Special Provision 640     | 640D                   |
| Tunnel restriction code   | D/E                    |
| Label                     | 3                      |

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## 14.2 Transport IMDG

|                      |                        |
|----------------------|------------------------|
| Class                | 3                      |
| Packing group        | II                     |
| UN number            | UN1263                 |
| Proper shipping name | PAINT RELATED MATERIAL |
| EmS                  | F-E+S-E                |
| Label                | 3                      |

## 14.3 Transport ICAO-TI / IATA

|                      |                        |
|----------------------|------------------------|
| Class                | 3                      |
| Packing group        | II                     |
| UN number            | UN1263                 |
| Proper shipping name | Paint related material |
| Label                | 3                      |

## 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.

##### **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, 40 |
|---|----------|

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

|  |     |
|--|-----|
| This product is subject to Part I of Annex I, risk category: | P5b |
|--|-----|

### 15.2 Chemical safety assessment

For this mixture a chemical safety assessment has not been carried out.

## 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.

---

**Trade name:** edding refill ink whiteboard marker BT30, BTK25 (green) contained in: edding 360, edding 363

**Current version :** 4.1.0, issued: 22.10.2015

**Replaced version:** 4.0.0, issued: 10.09.2014

**Region:** GB

---

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

H226 Flammable liquid and vapour.  
H319 Causes serious eye irritation.

**Department issuing safety data sheet**

UMCO Umwelt Consult GmbH  
Georg-Wilhelm-Str. 183 , D-21107 Hamburg  
Tel.: +49 40 / 79 02 36 300 Fax: +49 40 / 79 02 36 357 e-mail: umco@umco.de

This information is based on our present state of knowledge and experience.  
The security data sheet describes products with a view to the security requirements.  
However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

**Alterations/supplements:**

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

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**Trade name:** edding refill ink whiteboard marker BT30, BTK25 (red) contained in: edding 360, edding 363

**Current version :** 5.0.0, issued: 30.06.2015

**Replaced version:** 4.0.0, issued: 10.09.2014

**Region:** GB

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

### 1.1 Product identifier

**Trade name**

**edding refill ink whiteboard marker BT30, BTK25 (red) contained in: edding 360, edding 363**

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

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

Refilling ink

**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)**

Eye Irrit. 2; H319

Flam. Liq. 2; H225

**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**



GHS02



GHS07

**Signal word**

Danger

**Hazard statements**

H225

Highly flammable liquid and vapour.

H319

Causes serious eye irritation.



**Trade name:** edding refill ink whiteboard marker BT30, BTK25 (red) contained in: edding 360, edding 363

**Current version :** 5.0.0, issued: 30.06.2015

**Replaced version:** 4.0.0, issued: 10.09.2014

**Region:** GB

### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P370+P378 In case of fire: Use water spray, extinguishing powder, foam or CO2 for extinction.  
 P501 Dispose of contents/container in accordance with local and national regulations.

### Labelling information

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

### 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

Alcoholic solution of organic pigments, binding agents and additives.

#### Hazardous ingredients

| No | Substance name                             | Additional information                   |                            |
|----|--|--|----------------------------|
|    | CAS / EC / Index / REACH no                | Classification (EC) 1272/2008 (CLP)      | Concentration %            |
| 1  | ethanol                                    |  | pls. refer to footnote (1) |
|    | 64-17-5<br>200-578-6<br>603-002-00-5<br>-  | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319 | >= 50.00 - < 100.00 %-b.w. |
| 2  | 1-methoxy-2-propanol                       |  |                            |
|    | 107-98-2<br>203-539-1<br>603-064-00-3<br>- | Flam. Liq. 3; H226<br>STOT SE 3; H336    | >= 10.00 - < 25.00 %-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) |
|----|------|-------------------------------|------------------|--------------------|
| 1  | -    | Eye Irrit. 2; H319: C >= 50%  | -                | -                  |

### 3.3 Other information

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.

**Trade name:** edding refill ink whiteboard marker BT30, BTK25 (red) contained in: edding 360, edding 363

**Current version :** 5.0.0, issued: 30.06.2015

**Replaced version:** 4.0.0, issued: 10.09.2014

**Region:** GB

**After eye contact**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

**After ingestion**

Do not induce vomiting. Call a doctor immediately. 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)

**5.3 Advice for firefighters**

Cool endangered containers with water spray jet. Use self-contained breathing apparatus. Suppress gases/vapours/mists with water spray jet. Wear protective clothing.

## 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. Keep away sources of ignition.

**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. Do not discharge into the subsoil/soil.

**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**

**Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far as possible by the state of the art.

**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.

**Trade name:** edding refill ink whiteboard marker BT30, BTK25 (red) contained in: edding 360, edding 363

**Current version :** 5.0.0, issued: 30.06.2015

**Replaced version:** 4.0.0, issued: 10.09.2014

**Region:** GB

#### Advice on protection against fire and explosion

Vapours can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition. Use explosion-proof equipment/fittings and non-sparking tools.

### 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   | ethanol                           | 64-17-5  | 200-578-6         |                        |
| <b>List of approved workplace exposure limits (WELs) / EH40</b> |                                   |          |                   |                        |
| Ethanol   |                                   |          |                   |                        |
|   | TWA                               | 1920     | mg/m <sup>3</sup> | 1000 ml/m <sup>3</sup> |
| 2   | 1-methoxy-2-propanol              | 107-98-2 | 203-539-1         |                        |
| <b>2000/39/EWG</b>  |                                   |          |                   |                        |
| 1-Methoxypropanol-2   |                                   |          |                   |                        |
|   | STEL                              | 568      | mg/m <sup>3</sup> | 150 ml/m <sup>3</sup>  |
|   | TWA                               | 375      | mg/m <sup>3</sup> | 100 ml/m <sup>3</sup>  |
|   | Skin resorption / sensibilisation | Skin     |                   |                        |
| <b>List of approved workplace exposure limits (WELs) / EH40</b> |                                   |          |                   |                        |
| 1-Methoxypropan-2-ol  |                                   |          |                   |                        |
|   | STEL                              | 560      | mg/m <sup>3</sup> | 150 ml/m <sup>3</sup>  |
|   | TWA                               | 375      | mg/m <sup>3</sup> | 100 ml/m <sup>3</sup>  |
|   | Skin resorption / sensibilisation | 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

Normal chemical work clothing.

##### Environmental exposure controls

No data available.

**Trade name:** edding refill ink whiteboard marker BT30, BTK25 (red) contained in: edding 360, edding 363

**Current version :** 5.0.0, issued: 30.06.2015

**Replaced version:** 4.0.0, issued: 10.09.2014

**Region:** GB

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |                              |
|--|------------------------------|
| <b>Form/Colour</b>   |                              |
| liquid   |                              |
| red  |                              |
| <b>Odour</b>   |                              |
| characteristic   |                              |
| <b>Odour threshold</b>   |                              |
| No data available  |                              |
| <b>pH value</b>  |                              |
| No data available  |                              |
| <b>Boiling point / boiling range</b>   |                              |
| Value  | 78 °C                        |
| <b>Melting point / melting range</b>   |                              |
| No data available  |                              |
| <b>Decomposition point / decomposition range</b>   |                              |
| No data available  |                              |
| <b>Flash point</b>   |                              |
| Value  | 13 °C                        |
| <b>Ignition temperature</b>  |                              |
| Value  | 287 °C                       |
| <b>Auto-ignition temperature</b>   |                              |
| Remarks  | Product is not selfigniting. |
| <b>Oxidising properties</b>  |                              |
| No data available  |                              |
| <b>Explosive properties</b>  |                              |
| This product is not explosive. In and after use danger of production of inflammable compounds. |                              |
| <b>Flammability (solid, gas)</b>   |                              |
| No data available  |                              |
| <b>Lower flammability or explosive limits</b>  |                              |
| Value  | 1.7 % vol                    |
| <b>Upper flammability or explosive limits</b>  |                              |
| Value  | 15.0 % vol                   |
| <b>Vapour pressure</b>   |                              |
| Value  | 59 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  |                              |
| <b>Density</b>   |                              |
| no data available  |                              |
| <b>Solubility in water</b>   |                              |
| Remarks  | partially miscible           |

**Trade name:** edding refill ink whiteboard marker BT30, BTK25 (red) contained in: edding 360, edding 363

**Current version :** 5.0.0, issued: 30.06.2015

**Replaced version:** 4.0.0, issued: 10.09.2014

**Region:** GB

| Solubility(ies)   |  |
|-------------------|--|
| No data available |  |

| Partition coefficient: n-octanol/water |  |
|--|--|
| No data available                      |  |

| Viscosity         |  |
|-------------------|--|
| No data available |  |

| Solvent content |        |
|-----------------|--------|
| Value           | 79.1 % |

## 9.2 Other information

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

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

No data available.

### 10.5 Incompatible materials

No data available.

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

| Acute oral toxicity |                      |              |                  |
|---------------------|----------------------|--------------|------------------|
| No                  | Substance name       | CAS no.      | EC no.           |
| 1                   | 1-methoxy-2-propanol | 107-98-2     | 203-539-1        |
| LD50                |                      | 5660         | mg/kg bodyweight |
| Species             |                      | rat          |                  |
| Source              |                      | Manufacturer |                  |

| Acute dermal toxicity |                      |              |                  |
|-----------------------|----------------------|--------------|------------------|
| No                    | Substance name       | CAS no.      | EC no.           |
| 1                     | 1-methoxy-2-propanol | 107-98-2     | 203-539-1        |
| LD50                  |                      | 9999.99      | mg/kg bodyweight |
| Species               |                      | rabbit       |                  |
| Source                |                      | Manufacturer |                  |

**Trade name:** edding refill ink whiteboard marker BT30, BTK25 (red) contained in: edding 360, edding 363

**Current version :** 5.0.0, issued: 30.06.2015

**Replaced version:** 4.0.0, issued: 10.09.2014

**Region:** GB

|   |
|---|
| <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>Delayed and immediate effects as well as chronic effects from short and long-term exposure</b>   |
| Inhalation of solvent vapours in higher concentration may lead to nausea, headache, drowsiness and dizziness. 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. |

**Trade name:** edding refill ink whiteboard marker BT30, BTK25 (red) contained in: edding 360, edding 363

**Current version :** 5.0.0, issued: 30.06.2015

**Replaced version:** 4.0.0, issued: 10.09.2014

**Region:** GB

## 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.

### 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

|  |
|--|
| <b>Other information</b>                                   |
| 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.

**Trade name:** edding refill ink whiteboard marker BT30, BTK25 (red) contained in: edding 360, edding 363

**Current version :** 5.0.0, issued: 30.06.2015

**Replaced version:** 4.0.0, issued: 10.09.2014

**Region:** GB

**SECTION 14: Transport information**

**14.1 Transport ADR/RID/ADN**

|                           |        |
|---------------------------|--------|
| Class                     | 3      |
| Classification code       | F1     |
| Packing group             | II     |
| Hazard identification no. | 33     |
| UN number                 | UN1263 |
| Technical name            | PAINT  |
| Special Provision 640     | 640D   |
| Tunnel restriction code   | D/E    |
| Label                     | 3      |

**14.2 Transport IMDG**

|                      |         |
|----------------------|---------|
| Class                | 3       |
| Packing group        | II      |
| UN number            | UN1263  |
| Proper shipping name | PAINT   |
| EmS                  | F-E+S-E |
| Label                | 3       |

**14.3 Transport ICAO-TI / IATA**

|                      |        |
|----------------------|--------|
| Class                | 3      |
| Packing group        | II     |
| UN number            | UN1263 |
| Proper shipping name | Paint  |
| Label                | 3      |

**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 73/78 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.

**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, 40 |
|---|----------|

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

|  |     |
|--|-----|
| This product is subject to Part I of Annex I, risk category: | P5b |
|--|-----|



**Trade name:** edding refill ink whiteboard marker BT30, BTK25 (red) contained in: edding 360, edding 363

**Current version :** 5.0.0, issued: 30.06.2015

**Replaced version:** 4.0.0, issued: 10.09.2014

**Region:** GB

## 15.2 Chemical safety assessment

For this mixture a chemical safety assessment has not been carried out.

## 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)

|      |                                    |
|------|------------------------------------|
| H226 | Flammable liquid and vapour.       |
| H336 | May cause drowsiness or dizziness. |

### Department issuing safety data sheet

UMCO Umwelt Consult GmbH

Georg-Wilhelm-Str. 183 , D-21107 Hamburg

Tel.: +49 40 / 79 02 36 300 Fax: +49 40 / 79 02 36 357 e-mail: [umco@umco.de](mailto:umco@umco.de)

This information is based on our present state of knowledge and experience.

The security data sheet describes products with a view to the security requirements.

However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

### Alterations/supplements:

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

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**Trade name:** edding boardmarker ink (violet) contained in: edding 360, edding 363

**Current version :** 3.0.0, issued: 02.07.2015

**Replaced version:** 2.0.0, issued: 12.08.2013

**Region:** GB

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

### 1.1 Product identifier

**Trade name**

**edding boardmarker ink (violet) contained in: edding 360, edding 363**

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

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

Refilling ink

**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)**

Eye Irrit. 2; H319

Flam. Liq. 2; H225

**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**



GHS02



GHS07

**Signal word**

Danger

**Hazard statements**

H225

Highly flammable liquid and vapour.

H319

Causes serious eye irritation.

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### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P370+P378 In case of fire: Use water spray, extinguishing powder, foam or CO2 for extinction.  
 P501 Dispose of contents/container 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

Alcoholic solution of organic pigments, binding agents and additives.

#### Hazardous ingredients

| No | Substance name                             | Additional information                   |                            |
|----|--|--|----------------------------|
|    | CAS / EC / Index / REACH no                | Classification (EC) 1272/2008 (CLP)      | Concentration %            |
| 1  | ethanol                                    |  | pls. refer to footnote (1) |
|    | 64-17-5<br>200-578-6<br>603-002-00-5<br>-  | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319 | >= 50.00 - < 100.00 %-b.w. |
| 2  | 1-methoxy-2-propanol                       |  |                            |
|    | 107-98-2<br>203-539-1<br>603-064-00-3<br>- | Flam. Liq. 3; H226<br>STOT SE 3; H336    | >= 10.00 - < 25.00 %-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) |
|----|------|-------------------------------|------------------|--------------------|
| 1  | -    | Eye Irrit. 2; H319: C >= 50%  | -                | -                  |

### 3.3 Other information

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. Do NOT use solvents or thinners.

#### After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

#### After ingestion

Do not induce vomiting. Call a doctor immediately. Never give anything by mouth to an unconscious person.

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#### 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

Water

#### 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)

#### 5.3 Advice for firefighters

Cool endangered containers with water spray jet. Use self-contained breathing apparatus. Suppress gases/vapours/mists with water spray jet. Wear protective clothing.

### 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. Keep away sources of ignition.

##### 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. Do not discharge into the subsoil/soil.

#### 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

##### Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far it is possible by the state of the art.

##### 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.

##### Advice on protection against fire and explosion

Vapours can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition. Use explosion-proof equipment/fittings and non-sparking tools.

#### 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.

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**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   | ethanol                           | 64-17-5  | 200-578-6                                |
| <b>List of approved workplace exposure limits (WELs) / EH40</b> |                                   |          |  |
| Ethanol   |                                   |          |  |
|   | TWA                               | 1920     | mg/m <sup>3</sup> 1000 ml/m <sup>3</sup> |
| 2   | 1-methoxy-2-propanol              | 107-98-2 | 203-539-1                                |
| <b>2000/39/EWG</b>  |                                   |          |  |
| 1-Methoxypropanol-2   |                                   |          |  |
|   | STEL                              | 568      | mg/m <sup>3</sup> 150 ml/m <sup>3</sup>  |
|   | TWA                               | 375      | mg/m <sup>3</sup> 100 ml/m <sup>3</sup>  |
|   | Skin resorption / sensibilisation | Skin     |  |
| <b>List of approved workplace exposure limits (WELs) / EH40</b> |                                   |          |  |
| 1-Methoxypropan-2-ol  |                                   |          |  |
|   | STEL                              | 560      | mg/m <sup>3</sup> 150 ml/m <sup>3</sup>  |
|   | TWA                               | 375      | mg/m <sup>3</sup> 100 ml/m <sup>3</sup>  |
|   | Skin resorption / sensibilisation | 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**

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

| Form/Colour |
|-------------|
| liquid      |
| violet      |

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|  |                              |
|--|------------------------------|
| <b>Odour</b>   |                              |
| characteristic   |                              |
| <b>Odour threshold</b>   |                              |
| No data available  |                              |
| <b>pH value</b>  |                              |
| No data available  |                              |
| <b>Boiling point / boiling range</b>   |                              |
| Value  | 78 °C                        |
| <b>Melting point / melting range</b>   |                              |
| No data available  |                              |
| <b>Decomposition point / decomposition range</b>   |                              |
| No data available  |                              |
| <b>Flash point</b>   |                              |
| Value  | 13 °C                        |
| <b>Ignition temperature</b>  |                              |
| Value  | 287 °C                       |
| <b>Auto-ignition temperature</b>   |                              |
| Remarks  | Product is not selfigniting. |
| <b>Oxidising properties</b>  |                              |
| No data available  |                              |
| <b>Explosive properties</b>  |                              |
| This product is not explosive. In and after use danger of production of inflammable compounds. |                              |
| <b>Flammability (solid, gas)</b>   |                              |
| No data available  |                              |
| <b>Lower flammability or explosive limits</b>  |                              |
| Value  | 1.7 % vol                    |
| <b>Upper flammability or explosive limits</b>  |                              |
| Value  | 15.0 % vol                   |
| <b>Vapour pressure</b>   |                              |
| Value  | 59 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  |                              |
| <b>Density</b>   |                              |
| No data available  |                              |
| <b>Solubility in water</b>   |                              |
| Remarks  | partially miscible           |

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| Solubility(ies)   |  |
|-------------------|--|
| No data available |  |

| Partition coefficient: n-octanol/water |  |
|--|--|
| No data available                      |  |

| Viscosity         |  |
|-------------------|--|
| No data available |  |

| Solvent content |        |
|-----------------|--------|
| Value           | 79.1 % |

## 9.2 Other information

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

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

No data available.

### 10.5 Incompatible materials

No data available.

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

| Acute oral toxicity |                      |              |                  |
|---------------------|----------------------|--------------|------------------|
| No                  | Substance name       | CAS no.      | EC no.           |
| 1                   | 1-methoxy-2-propanol | 107-98-2     | 203-539-1        |
| LD50                |                      | 5660         | mg/kg bodyweight |
| Species             |                      | rat          |                  |
| Source              |                      | Manufacturer |                  |

| Acute dermal toxicity |                      |              |                  |
|-----------------------|----------------------|--------------|------------------|
| No                    | Substance name       | CAS no.      | EC no.           |
| 1                     | 1-methoxy-2-propanol | 107-98-2     | 203-539-1        |
| LD50                  |                      | 9999.99      | mg/kg bodyweight |
| Species               |                      | rabbit       |                  |
| Source                |                      | Manufacturer |                  |

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|   |
|---|
| <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>Delayed and immediate effects as well as chronic effects from short and long-term exposure</b>   |
| Inhalation of solvent vapours in higher concentration may lead to nausea, headache, drowsiness and dizziness. 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. |



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## 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.

### 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

|  |
|--|
| <b>Other information</b>                                   |
| 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.

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**SECTION 14: Transport information**

**14.1 Transport ADR/RID/ADN**

|                           |        |
|---------------------------|--------|
| Class                     | 3      |
| Classification code       | F1     |
| Packing group             | II     |
| Hazard identification no. | 33     |
| UN number                 | UN1263 |
| Technical name            | PAINT  |
| Special Provision 640     | 640D   |
| Tunnel restriction code   | D/E    |
| Label                     | 3      |

**14.2 Transport IMDG**

|                      |         |
|----------------------|---------|
| Class                | 3       |
| Packing group        | II      |
| UN number            | UN1263  |
| Proper shipping name | PAINT   |
| EmS                  | F-E+S-E |
| Label                | 3       |

**14.3 Transport ICAO-TI / IATA**

|                      |        |
|----------------------|--------|
| Class                | 3      |
| Packing group        | II     |
| UN number            | UN1263 |
| Proper shipping name | Paint  |
| Label                | 3      |

**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 73/78 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.

**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, 40 |
|---|----------|

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

|  |     |
|--|-----|
| This product is subject to Part I of Annex I, risk category: | P5b |
|--|-----|

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## 15.2 Chemical safety assessment

For this mixture a chemical safety assessment has not been carried out.

## 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)

|      |                                    |
|------|------------------------------------|
| H226 | Flammable liquid and vapour.       |
| H336 | May cause drowsiness or dizziness. |

### Department issuing safety data sheet

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This information is based on our present state of knowledge and experience.

The security data sheet describes products with a view to the security requirements.

However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

### Alterations/supplements:

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

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