

**Trade name:** edding Permanent Ink (brown) contained in: edding 500, edding 800, edding 3000,

**Current version :** 1.0.0, issued: 05.02.2023

**Replaced version:** -, issued: -

**Region:** GB

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

### 1.1 Product identifier

**Trade name**

**edding Permanent Ink (brown) contained in: edding 500, edding 800, edding 3000, edding 3300**

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

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

Refill 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

**Details of the importer**

**Address**

edding UK Ltd.

edding House, Merlin Centre

AL4 0JY St Albans

Hertfordshire

United Kingdom

Telephone no. +44 (0)1727 84 66 88

### 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 3; H412

Flam. Liq. 3; H226

Skin Sens. 1; H317

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**

**Trade name:** edding Permanent Ink (brown) contained in: edding 500, edding 800, edding 3000,

**Current version :** 1.0.0, issued: 05.02.2023

**Replaced version:** -, issued: -

**Region:** GB



GHS02



GHS07

**Signal word**

Warning

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

1-methoxy-2-propanol

Amines, C12-14-branched alkyl, 4-[(5-cyano-1-ethyl-5,6-dihydro-2 hydroxy-4-methyl-6-oxo-3-pyridinyl)azo]-1,3-benzenedisulfonate C.I. Solvent Yellow 146

**Hazard statement(s)**

H226

Flammable liquid and vapour.

H317

May cause an allergic skin reaction.

H336

May cause drowsiness or dizziness.

H412

Harmful to aquatic life with long lasting effects.

**Precautionary statement(s)**

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 to extinguish.

P405

Store locked up.

P501

Dispose of contents/container to a facility in accordance with local and national regulations.

**2.3 Other hazards**

No data available.

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

**3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures**

**Chemical characterization**

Mixture (preparation)

**Hazardous ingredients**

| No | Substance name   | Additional information  |                            |
|----|--|---|----------------------------|
|    | CAS / EC / Index / REACH no  | Classification (EC) 1272/2008 (CLP)                                 | Concentration %            |
| 1  | <b>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                               | < 80.00 wt%                |
| 2  | <b>Amines, C12-14-branched alkyl, 4-[(5-cyano-1-ethyl-5,6-dihydro-2 hydroxy-4-methyl-6-oxo-3-pyridinyl)azo]-1,3-benzenedisulfonate C.I. Solvent Yellow 146</b>   |   |                            |
|    | 94279-65-9<br>304-811-3<br>-<br>-  | Aquatic Chronic 2; H411<br>Eye Irrit. 2; H319<br>Skin Sens. 1; H317 | < 2.50 wt%                 |
| 3  | <b>A mixture of: tert-alkyl(C12-C14)ammonium bis[1-[(2-hydroxy-5 nitrophenyl)azo]-2-naphthalenolato(2-)]-chromate(1-), tert-alkyl(C12 C14)ammonium ((1-(4(or 5)-nitro-2-oxidophenylazo)-2-naphtholato)(1-(3 nitro-2-oxido-5-pentylphenylazo)-2-naphtholato))chroma</b> |   | pls. refer to footnote (1) |

**Trade name:** edding Permanent Ink (brown) contained in: edding 500, edding 800, edding 3000,

**Current version :** 1.0.0, issued: 05.02.2023

**Replaced version:** -, issued: -

**Region:** GB

|   |  |        |     |
|---|--|--------|-----|
| 117527-94-3<br>403-720-7<br>611-044-00-0<br>- | Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410 | < 0.50 | wt% |
|---|--|--------|-----|

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.

## 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

Rinse out mouth and give plenty of water to drink. 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. 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 from ignition sources.

#### 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

**Trade name:** edding Permanent Ink (brown) contained in: edding 500, edding 800, edding 3000,

**Current version :** 1.0.0, issued: 05.02.2023

**Replaced version:** -, issued: -

**Region:** GB

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 at the work area (local exhaust ventilation, if necessary).

##### 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.

##### Incompatible products

Do not store together with: Acids; Alkalis; oxidizing agents

#### 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  | 1-methoxy-2-propanol  | 107-98-2        | 203-539-1                 |
|    | 2000/39/EC  |                 |                           |
|    | 1-Methoxypropanol-2   |                 |                           |
|    | WEL short-term (15 min reference period)  | 568             | mg/m <sup>3</sup> 150 ppm |
|    | WEL long-term (8-hr TWA reference period)   | 375             | mg/m <sup>3</sup> 100 ppm |
|    | Skin resorption / sensibilisation   | Skin            |                           |
|    | <b>List of approved workplace exposure limits (WELs) / EH40</b>   |                 |                           |
|    | 1-Methoxypropan-2-ol  |                 |                           |
|    | WEL short-term (15 min reference period)  | 560             | mg/m <sup>3</sup> 150 ppm |
|    | WEL long-term (8-hr TWA reference period)   | 375             | mg/m <sup>3</sup> 100 ppm |
|    | Comments  | Sk              |                           |
| 2  | A mixture of: tert-alkyl(C12-C14)ammonium bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-chromate(1-), tert-alkyl(C12-C14)ammonium ((1-(4(or 5)-nitro-2-oxidophenylazo)-2-naphtholato)(1-(3-nitro-2-oxido-5-pentylphenylazo)-2-naphtholato))chroma | 117527-94-3     | 403-720-7                 |
|    | <b>List of approved workplace exposure limits (WELs) / EH40</b>   |                 |                           |
|    | Chromium (VI) compounds (as Cr)   |                 |                           |
|    | WEL long-term (8-hr TWA reference period)   | 0.01            | mg/m <sup>3</sup>         |
|    | Comments  | Carc, sen, BMGV |                           |
|    | <b>List of approved workplace exposure limits (WELs) / EH40</b>   |                 |                           |
|    | Chromium (VI) compounds (as Cr)   |                 |                           |

**Trade name:** edding Permanent Ink (brown) contained in: edding 500, edding 800, edding 3000,

**Current version :** 1.0.0, issued: 05.02.2023

**Replaced version:** -, issued: -

**Region:** GB

|                         |   |  |
|-------------------------|---|--|
|                         | WEL long-term (8-hr TWA reference period) | 0,025 mg/m <sup>3</sup><br>(process generated) <sup>1</sup>  |
|                         | Comments                                  | Carc, sen, BMGV  |
| <b>2004/37/EC</b>       |   |  |
| Chromium (VI) compounds |   |  |
|                         | WEL long-term (8-hr TWA reference period) | 0.005 mg/m <sup>3</sup>  |
|                         | Comments                                  | Limit value 0,010 mg/m <sup>3</sup> until 17 January 2025<br>Limit value: 0,025 mg/m <sup>3</sup> for welding or plasma cutting processes or similar work processes that generate fume until 17 January 2025 |

## 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.

Appropriate Material butyl rubber

Material thickness 0.5 mm

Breakthrough time > 240 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>State of aggregation</b>          |              |
| liquid                               |              |
| <b>Form</b>                          |              |
| liquid                               |              |
| <b>Colour</b>                        |              |
| brown                                |              |
| <b>Odour</b>                         |              |
| characteristic                       |              |
| <b>pH value</b>                      |              |
| Value                                | appr. 5.2    |
| <b>Boiling point / boiling range</b> |              |
| Value                                | appr. 112 °C |
| Reference pressure                   | 1013 hPa     |
| <b>Melting point/freezing point</b>  |              |

**Trade name:** edding Permanent Ink (brown) contained in: edding 500, edding 800, edding 3000,

**Current version :** 1.0.0, issued: 05.02.2023

**Replaced version:** -, issued: -

**Region:** GB

|  |              |       |                   |
|--|--------------|-------|-------------------|
| No data available  |              |       |                   |
| <b>Decomposition temperature</b>                         |              |       |                   |
| No data available  |              |       |                   |
| <b>Flash point</b>                                       |              |       |                   |
| Value  | appr.        | 30    | °C                |
| <b>Ignition temperature</b>                              |              |       |                   |
| No data available  |              |       |                   |
| <b>Flammability</b>                                      |              |       |                   |
| No data available  |              |       |                   |
| <b>Lower explosion limit</b>                             |              |       |                   |
| No data available  |              |       |                   |
| <b>Upper explosion limit</b>                             |              |       |                   |
| No data available  |              |       |                   |
| <b>Vapour pressure</b>                                   |              |       |                   |
| Value  | <            | 110   | kPa               |
| Reference temperature                                    |              | 50    | °C                |
| <b>Relative vapour density</b>                           |              |       |                   |
| No data available  |              |       |                   |
| <b>Relative density</b>                                  |              |       |                   |
| No data available  |              |       |                   |
| <b>Density</b>   |              |       |                   |
| Value  | appr.        | 0.976 | g/cm <sup>3</sup> |
| Reference temperature                                    |              | 20    | °C                |
| <b>Solubility</b>  |              |       |                   |
| No data available  |              |       |                   |
| <b>Partition coefficient n-octanol/water (log value)</b> |              |       |                   |
| No data available  |              |       |                   |
| <b>Kinematic viscosity</b>                               |              |       |                   |
| Value  | appr.        | 12    | sec               |
| Reference temperature                                    |              | 20    | °C                |
| Type   | Efflux time  |       |                   |
| Method   | DIN cup 4 mm |       |                   |
| <b>Solvent separation test</b>                           |              |       |                   |
| Value  | <            | 3     | %                 |
| Reference temperature                                    |              | 20    | °C                |
| <b>Particle characteristics</b>                          |              |       |                   |
| No data available  |              |       |                   |

## 9.2 Other information

|  |
|--|
| <b>Other information</b>                           |
| The physical data is that of the main component/s. |

## 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.

**Trade name:** edding Permanent Ink (brown) contained in: edding 500, edding 800, edding 3000,

**Current version :** 1.0.0, issued: 05.02.2023

**Replaced version:** -, issued: -

**Region:** GB

#### 10.4 Conditions to avoid

Heat, naked flames and other ignition sources. Moisture.

#### 10.5 Incompatible materials

Acids; Alkalis; Oxidizing agents

#### 10.6 Hazardous decomposition products

Hydrogen

### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

| 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         |          |                  |

| Acute inhalational toxicity |  |
|-----------------------------|--|
| No data available           |  |

| Skin corrosion/irritation |  |
|---------------------------|--|
| No data available         |  |

| Serious eye damage/irritation |  |
|-------------------------------|--|
| No data available             |  |

| Respiratory or skin sensitisation |  |
|-----------------------------------|--|
| No data available                 |  |

| Germ cell mutagenicity |  |
|------------------------|--|
| No data available      |  |

| Reproduction toxicity |  |
|-----------------------|--|
| No data available     |  |

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

| STOT - single exposure |  |
|------------------------|--|
| No data available      |  |

| STOT - repeated exposure |  |
|--------------------------|--|
| No data available        |  |

| Aspiration hazard |  |
|-------------------|--|
| No data available |  |

| Delayed and immediate effects as well as chronic effects from short and long-term exposure   |  |
|--|--|
| 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. |  |

#### 11.2 Information on other hazards

##### Endocrine disrupting properties

No data available.

##### Other information

**Trade name:** edding Permanent Ink (brown) contained in: edding 500, edding 800, edding 3000,

**Current version :** 1.0.0, issued: 05.02.2023

**Replaced version:** -, issued: -

**Region:** GB

No data available.

## 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 Endocrine disrupting properties

No data available.

### 12.7 Other adverse effects

No data available.

### 12.8 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**

Residues 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       | III |



**Trade name:** edding Permanent Ink (brown) contained in: edding 500, edding 800, edding 3000,

**Current version :** 1.0.0, issued: 05.02.2023

**Replaced version:** -, issued: -

**Region:** GB

Hazard identification no. 30  
 UN number UN1263  
 Proper shipping name PAINT RELATED MATERIAL  
 Tunnel restriction code D/E  
 Label 3

#### 14.2 Transport IMDG

Class 3  
 Packing group III  
 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 III  
 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 Maritime transport in bulk according to IMO instruments

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, MIXTURES AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. No 3, 40

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

| No | Substance name  | CAS no.     | EC no.    | No |
|----|---|-------------|-----------|----|
| 1  | A mixture of: tert-alkyl(C12-C14)ammonium bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-chromate(1-), tert-alkyl(C12 C14)ammonium ((1-(4(or 5)-nitro-2-oxidophenylazo)-2-naphtholato)(1-(3-nitro-2-oxido-5-pentylphenylazo)-2-naphtholato))chroma | 117527-94-3 | 403-720-7 | 75 |

##### **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

#### 15.2 Chemical safety assessment

**Trade name:** edding Permanent Ink (brown) contained in: edding 500, edding 800, edding 3000,

**Current version :** 1.0.0, issued: 05.02.2023

**Replaced version:** -, issued: -

**Region:** GB

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

## SECTION 16: Other information

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

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

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

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 section.

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

|      |   |
|------|---|
| H319 | Causes serious eye irritation.                        |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects.      |

### Creation of the safety data sheet

UMCO GmbH

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

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

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

Prod-ID 792514