

**Trade name:** edding Permanent Marker Ink (ochre) contained in: edding 3000**Current version :** 1.1.3, issued: 27.10.2022**Replaced version:** 1.1.2, issued: 15.09.2021**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****edding Permanent Marker Ink (ochre) contained in: edding 3000****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Ink for use in felt pens

**Uses advised against**

No data available.

**1.3 Details of the supplier of the safety data sheet****Address**

edding International GmbH

Bookkoppel 7

D-22926 Ahrensburg

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

**Information provided by / telephone**

+49 (0)4102 - 808-0

**Advice on Safety Data Sheet**

sdb\_info@umco.de

**1.4 Emergency telephone number**

For medical advice (in German and English):

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

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Chronic 2; H411

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



GHS07



GHS09

**Signal word**

Warning

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

1-methoxy-2-propanol

**Hazard statement(s)**

H226

Flammable liquid and vapour.

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H336

May cause drowsiness or dizziness.

H411

Toxic 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            | >= 70.00 - < 90.00 wt% |
| 2  | <b>Amines, C10-14-branched and linear alkyl, [2,4-dihydro-4-[(2-hydroxy 5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]-[2-[(4,5 dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2 )]chromate(1-), C.I. Solvent Orange 54</b> |                                                  |                        |
|    | 85029-59-0<br>285-084-9<br>-<br>-                                                                                                                                                                                                                       | Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410 | < 5.00 wt%             |
| 3  | <b>Solvent Yellow 82</b>                                                                                                                                                                                                                                |                                                  |                        |
|    | 12227-67-7<br>-<br>-<br>-                                                                                                                                                                                                                               | Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410 | < 5.00 wt%             |

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.

**After inhalation**

Ensure supply of fresh air.

**After skin contact**

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When in contact with the skin, clean 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**

Rinse out mouth and give plenty of water to drink. Seek medical advice. 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**

No data available.

**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.

**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**

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.

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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.

### 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                                                                                                                                                                              |           |
|    | List of approved workplace exposure limits (WELs) / EH40                                                                                                                                                                                        |                                                                                                                                                                                   |           |
|    | 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  | Amines, C10-14-branched and linear alkyl, [2,4-dihydro-4-[(2-hydroxy 5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)][2-[(4,5 dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2 )]chromate(1-), C.I. Solvent Orange 54 | 85029-59-0                                                                                                                                                                        | 285-084-9 |
|    | 2006/15/EC                                                                                                                                                                                                                                      |                                                                                                                                                                                   |           |
|    | Chromium Metal, Inorganic Chromium (II) Compounds and Inorganic Chromium (III) Compounds (insoluble)                                                                                                                                            |                                                                                                                                                                                   |           |
|    | WEL long-term (8-hr TWA reference period)                                                                                                                                                                                                       | 2 mg/m <sup>3</sup>                                                                                                                                                               |           |
|    | List of approved workplace exposure limits (WELs) / EH40                                                                                                                                                                                        |                                                                                                                                                                                   |           |
|    | Chromium (VI) compounds (as Cr)                                                                                                                                                                                                                 |                                                                                                                                                                                   |           |
|    | WEL long-term (8-hr TWA reference period)                                                                                                                                                                                                       | 0.01 mg/m <sup>3</sup>                                                                                                                                                            |           |
|    | Comments                                                                                                                                                                                                                                        | Carc, sen, BMGV                                                                                                                                                                   |           |
|    | List of approved workplace exposure limits (WELs) / EH40                                                                                                                                                                                        |                                                                                                                                                                                   |           |
|    | Chromium (VI) compounds (as Cr)                                                                                                                                                                                                                 |                                                                                                                                                                                   |           |
|    | WEL long-term (8-hr TWA reference period)                                                                                                                                                                                                       | 0,025 mg/m <sup>3</sup><br>(process generated)1                                                                                                                                   |           |
|    | Comments                                                                                                                                                                                                                                        | Carc, sen, BMGV                                                                                                                                                                   |           |
|    | 2004/37/EC                                                                                                                                                                                                                                      |                                                                                                                                                                                   |           |
|    | Chromium (VI) compounds                                                                                                                                                                                                                         |                                                                                                                                                                                   |           |
|    | WEL long-term (8-hr TWA reference period)                                                                                                                                                                                                       | 0.005 mg/m <sup>3</sup>                                                                                                                                                           |           |
|    | Comments                                                                                                                                                                                                                                        | Limit value 0,010 mg/m3 until 17 January 2025 Limit value: 0,025 mg/m3 for welding or plasma cutting processes or similar work processes that generate fume until 17 January 2025 |           |

## 8.2 Exposure controls

Appropriate engineering controls

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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>                        |             |      |     |
| ochre                                |             |      |     |
| <b>Odour</b>                         |             |      |     |
| characteristic                       |             |      |     |
| <b>pH value</b>                      |             |      |     |
| Value                                | appr. 5.7   |      |     |
| <b>Boiling point / boiling range</b> |             |      |     |
| Value                                | appr.       | 112  | °C  |
| Reference pressure                   |             | 1013 | hPa |
| <b>Melting point/freezing point</b>  |             |      |     |
| No data available                    |             |      |     |
| <b>Decomposition temperature</b>     |             |      |     |
| No data available                    |             |      |     |
| <b>Flash point</b>                   |             |      |     |
| Value                                | 30 °C       |      |     |
| Method                               | Abel-Pensky |      |     |
| <b>Ignition temperature</b>          |             |      |     |
| No data available                    |             |      |     |
| <b>Flammability</b>                  |             |      |     |
| No data available                    |             |      |     |
| <b>Lower explosion limit</b>         |             |      |     |

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|                                                   |              |       |       |
|---------------------------------------------------|--------------|-------|-------|
| No data available                                 |              |       |       |
| Upper explosion limit                             |              |       |       |
| No data available                                 |              |       |       |
| Vapour pressure                                   |              |       |       |
| Value                                             | <            | 110   | kPa   |
| Reference temperature                             |              | 50    | °C    |
| Relative vapour density                           |              |       |       |
| No data available                                 |              |       |       |
| Relative density                                  |              |       |       |
| No data available                                 |              |       |       |
| Density                                           |              |       |       |
| Value                                             | appr.        | 0.968 | g/cm³ |
| Reference temperature                             |              | 20    | °C    |
| Solubility                                        |              |       |       |
| No data available                                 |              |       |       |
| Partition coefficient n-octanol/water (log value) |              |       |       |
| No data available                                 |              |       |       |
| Kinematic viscosity                               |              |       |       |
| Value                                             | appr.        | 12    | sec   |
| Reference temperature                             |              | 20    | °C    |
| Type                                              | Efflux time  |       |       |
| Method                                            | DIN cup 4 mm |       |       |
| Solvent separation test                           |              |       |       |
| Value                                             | <            | 3     | %     |
| Reference temperature                             |              | 20    | °C    |
| Particle characteristics                          |              |       |       |
| 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.

### 10.4 Conditions to avoid

No data available.

### 10.5 Incompatible materials

Acids; Alkalies; 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

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| 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.<br>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

No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity

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

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

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

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**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**

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**
**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**

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    |
| Hazard identification no. | 30     |
| UN number                 | UN1263 |
| Proper shipping name      | PAINT  |
| 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        |

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**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 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  | Amines, C10-14-branched and linear alkyl, [2,4-dihydro-4-[(2-hydroxy 5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)] [2-[(4,5 dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2 )]chromate(1-), C.I. Solvent Orange 54 | 85029-59-0 | 285-084-9 | 75 |
| 2  | Solvent Yellow 82                                                                                                                                                                                                                                | 12227-67-7 | -         | 43 |

**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, P5c

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**

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.

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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)**

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

**Creation of the safety data sheet**

UMCO GmbH

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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.

Alterations/supplements:

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

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