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

1.1 Product identifier

Trade name

edding Permanent Marker Refill Ink T25, T100, T1000, MTK25 (black), 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 Refilling ink

1.3 Details of the supplier of the safety data sheet

Address edding Aktiengesellschaft Bookkoppel 7 D-22926 Ahrensburg

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

Information provided by / telephone +49 (0)4102 - 808-0

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 Directive 67/548/EEC or 1999/45/EC F; R11 R67

Highly flammable.

2.2 Label elements

Labelling according to Directive 1999/45/EC

Hazard symbols



Highly flammable

R phrases

| | • | |
|---|---|--|
| 6 | 7 | |

S phrases

2

29

- 46 51
- 51

Keep out of the reach of children. Do not empty into drains. If swallowed, seek medical advice immediately and show this container or label.

2.3 Other hazards

No data available.

Vapours may cause drowsiness and dizziness.

Use only in well-ventilated areas.



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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 | | | | l | |
|------|--|-----------------------------------|------------------------|-------|---|---|-------|--------|
| | CAS / EC / Index / Classification 67/548/EEC | | Concentration | | | | | %-b.w. |
| | REACH no | | | | | | | |
| 1 | 1-METHOXY-2-PRC | PANOL | | | | | | |
| | 107-98-2 | R10 | > | 40,00 | - | < | 45,00 | %-b.w. |
| | 203-539-1 | R67 | | | | | | |
| | 603-064-00-3 | | | | | | | |
| | - | | | | | | | |
| 2 | ethanol | | | | | | | |
| | 64-17-5 | F; R11 | ^ | 10,00 | - | < | 30,00 | %-b.w. |
| | 200-578-6 | | | | | | | |
| | 603-002-00-5 | | | | | | | |
| | - | | | | | | | |
| 3 | Poly(oxy-1,2-ethan | ediyl), .alphadecylomegahydroxy-, | | | | | | |
| | phosphate | | | | | | | |
| | 52019-36-0 | Xi; R38 | ^ | 1,00 | - | < | 5,00 | %-b.w. |
| | - | Xi; R41 | | | | | | |
| | - | | | | | | | |
| | - | | | | | | | |
| Eull | Taxt for all D phrases | and a section 40 | | | | | | |

Full Text for all R-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

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

Separate eyelids, wash the eyes thoroughly with water (15 min.).

After ingestion

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

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

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO2); Carbon monoxide (CO)

5.3 Advice for firefighters

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

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

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.

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.

Requirements for storage rooms and vessels

Containers which are opened must be carefully resealed 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: Acids; Alcalies; Oxidizing agents



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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/EWG | | | | |
| | 1-Methoxypropanol-2 | | | | |
| | STEL | 568 | mg/m³ | 150 | ml/m³ |
| | TWA | 375 | mg/m³ | 100 | ml/m³ |
| | Skin resorption / sensibilisation | Skin | | | |
| | List of approved workplace exposure limits (WELs) / I | EH40 | | | |
| | 1-Methoxypropan-2-ol | | | | |
| | STEL | 560 | mg/m³ | 150 | ml/m³ |
| | TWA | 375 | mg/m³ | 100 | ml/m³ |
| | Skin resorption / sensibilisation | Sk | | | |
| 2 | ethanol | 64-17-5 | | 200-578-6 | |
| | List of approved workplace exposure limits (WELs) / I | EH40 | | | |
| | Ethanol | | | | |
| | TWA | 1920 | mg/m³ | 1000 | ml/m³ |

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

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 black | | |
| black | | |
| | | |
| Odour | | |
| characteristic | | |



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| | | 70 | °C |
|--------|--------|-----------|--|
| | | 1013 | hPa |
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| | 18 - | 21 | °C |
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| | 0.80 - | 1 20 | g/cm ³ |
| | 0,00 | 20 | °C |
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| | | | |
| | | | |
| | | | |
| | 12 - | 80 | sec |
| Efflux | | 80 20 | sec °C |
| | | | 1013 18 - 21 18 - 21 (110 100 100 100 100 100 100 100 |

edding

Trade name: edding Permanent Marker Refill Ink T25, T100, T1000, MTK25 (black), contained in: edding 300

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 Solvent separation test

 Value
 <</td>
 3
 %

9.2 Other information

Other information

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** No data available.
- **10.3 Possibility of hazardous reactions** No data available.
- **10.4 Conditions to avoid** No data available.
- **10.5** Incompatible materials Acids; Alcalis; Oxidizing agents
- **10.6 Hazardous decomposition products** No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

| Acute oral toxicity | |
|-----------------------------|--------------------|
| LD50 | 5660 mg/kg |
| Species | rat |
| Reference substance | CAS 107-98-2 |
| | |
| Acute dermal toxicity | |
| LD50 | 9999,9 mg/kg |
| Species | rabbit |
| Reference substance | CAS 107-98-2 |
| Acute inhalational toxicity | |
| Acute innalational toxicity | |
| Remarks | No data available. |



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| o data available | |
|-----------------------|---|
| erious eye damage/ir | ritation |
| o data available | |
| espiratory or skin se | nsitisation |
| o data available | |
| erm cell mutagenicit | V |
| o data available | |
| eproduction toxicity | |
| o data available | |
| arcinogenicity | |
| o data available | |
| TOT-single exposure | |
| o data available | |
| TOT-repeated expos | ure |
| o data available | |
| spiration hazard | |
| o data available | |
| elayed and immediat | e effects as well as chronic effects from short and long-term exposure |
| | pours in higher concentration may lead to nausea, headache, drowsiness and dizziness. |
| epeated and prolonge | d skin contact may cause removal of natural fat from the skin and irritation of the skin. |

12.1 Toxicity

| Fish toxicity | | |
|-------------------|--|--|
| No data available | | |
| Daphnia toxicity | | |
| No data available | | |
| Algae toxicity | | |
| 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.
- **Results of PBT and vPvB assessment** 12.5 No data available.

12.6 Other adverse effects

No data available.

12.7 Other information

Other information Ecological data are not available.

Do not discharge product unmonitored into the environment.



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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

1

1

1

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

| 4.2 Transport IMDG Class Packing group UN number UN1263 Proper shipping name PAINT RELATED MATERIAL EmS F-E+S-E Label 4.3 Transport ICAO-TI / IATA Class Packing group UN number UN1263 Proper shipping name Paint related material Label 4.4 Other information No data available | | Class Classification code Packing group Hazard identification no. UN number Technical name Special Provision 640 Tunnel restriction code Label | 3 F1 II 33 UN1263 PAINT RELATED MATERIAL 640D D/E 3 | |
|--|-----|--|---|--|
| Class 3 Packing group II UN number UN1263 Proper shipping name Paint related material Label 3 4.4 Other information | 4.2 | Class Packing group UN number Proper shipping name EmS | II UN1263 PAINT RELATED MATERIAL F-E+S-E | |
| | 4.3 | Class Packing group UN number Proper shipping name | II UN1263 Paint related material | |
| | 4.4 | Other information No data available. | | |

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 <u>EU regulations</u>

Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substancesRemarksAnnex I, part 2, category 7 b

15.2 Chemical safety assessment

No data available.



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SECTION 16: Other information

Sources of key data used to compile the data sheet:

EC Directive 67/548/EC resp. 99/45/EC as amended in each case.

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

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

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 R-, H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

| R10 | Flammable. |
|-----|---|
| R11 | Highly flammable. |
| R38 | Irritating to skin. |
| R41 | Risk of serious damage to eyes. |
| R67 | Vapours may cause drowsiness and dizziness. |

Department issuing safety data sheet

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