

Trade name: edding brillant paper marker refill service PTK25 (red) contained in: edding 30, edding

Current version : 2.0.0, issued: 08.12.2021

Replaced version: 1.0.0, issued: 13.05.2015

Region: GB

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

1.1 Product identifier

Trade name

edding brillant paper marker refill service PTK25 (red) contained in: edding 30, edding 33

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

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 information

This product does not meet the classification and labelling criteria given in the Regulation (EC) No 1272/2008 (CLP).

2.2 Label elements

Not relevant

2.3 Other hazards

PBT assessment

The components of this product are not considered to be a PBT.

vPvB assessment

The components of this product are not considered to be a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Chemical characterization

Solution of pigments and additives in water

Hazardous ingredients

| No | Substance name | Additional information | |
|----|-----------------------------|-------------------------------------|-----------------|
| | CAS / EC / Index / REACH no | Classification (EC) 1272/2008 (CLP) | Concentration % |
| 1 | ammonia | pls. refer to footnote (1) | |
| | 1336-21-6 | Aquatic Acute 1; H400 | < 0.50 wt% |

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| | | | | |
|---|--|---|-------------------|-----|
| | 215-647-6 007-001-01-2 - | Skin Corr. 1B; H314 STOT SE 3; H335 | | |
| 2 | pyridine-2-thiol 1-oxide, sodium salt | | | |
| | 3811-73-2 223-296-5 - - | Acute Tox. 4; H302 Acute Tox. 3; H311 Acute Tox. 4; H332 Aquatic Acute 1; H400 Eye Irrit. 2; H319 Skin Irrit. 2; H315 Aquatic Chronic 1; H410 | < 0.50 | wt% |
| 3 | Polychloro-copper-phthalocyanine (C.I. Pigment Green 7) | | | |
| | 1328-53-6 215-524-7 - - | - | >= 5.00 - < 10.00 | 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.

| No | Note | Specific concentration limits | M-factor (acute) | M-factor (chronic) |
|----|------|-------------------------------|------------------|--------------------|
| 1 | B | STOT SE 3; H335: C >= 5% | - | - |

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

| Acute toxicity estimate (ATE) values | | | |
|--------------------------------------|-----------------------|-----------------------|------------|
| No | oral | dermal | inhalative |
| 2 | 1208 mg/kg bodyweight | 1800 mg/kg bodyweight | |

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

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. 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

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Foam; Carbon dioxide; Extinguishing powder; 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 monoxide (CO); Nitrogen oxides (NOx); Carbon dioxide (CO₂)

5.3 Advice for firefighters

Use self-contained breathing apparatus. Cool endangered containers 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

Take up with absorbent material (e.g., sand, kieselguhr, universal binder). When collected, handle material as described under the section heading "Disposal considerations".

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). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

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. Wash hands before breaks and after work.

Advice on protection against fire and explosion

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.

Recommended storage temperature

Value < 50 °C

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

7.3 Specific end use(s)

No data available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

| No | Substance name | CAS no. | EC no. |
|---|---|-----------|-------------------|
| 1 | Polychloro-copper-phthalocyanine (C.I. Pigment Green 7) | 1328-53-6 | 215-524-7 |
| List of approved workplace exposure limits (WELs) / EH40 | | | |
| Copper and compounds (as Cu) dusts and mists | | | |
| | WEL short-term (15 min reference period) | 2 | mg/m ³ |
| | WEL long-term (8-hr TWA reference period) | 1 | mg/m ³ |

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 (EN 166)

Hand protection

In case of intensive contact, wear protective gloves (EN 374). 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

| | |
|--------------------------------------|-----------|
| State of aggregation | |
| liquid | |
| Form/Colour | |
| liquid | |
| red | |
| Odour | |
| odourless | |
| pH value | |
| Value | 7.0 - 9.0 |
| Boiling point / boiling range | |
| Value | 100 °C |
| Melting point/freezing point | |
| Value | 0 °C |
| Decomposition temperature | |
| No data available | |

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| | |
|--|------------|
| Flash point | |
| not determined | |
| Ignition temperature | |
| No data available | |
| Flammability | |
| No data available | |
| Lower explosion limit | |
| No data available | |
| Upper explosion limit | |
| No data available | |
| Vapour pressure | |
| No data available | |
| Relative vapour density | |
| No data available | |
| Relative density | |
| Value | 1.05 |
| Reference temperature | 20 °C |
| Density | |
| No data available | |
| Solubility in water | |
| Comments | soluble |
| Solubility | |
| No data available | |
| Partition coefficient n-octanol/water (log value) | |
| No data available | |
| Viscosity | |
| Value | < 10 mPa*s |
| Reference temperature | 25 °C |
| Type | dynamic |
| Particle characteristics | |
| No data available | |

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

Temperatures > 50°C. Keep from freezing.

10.5 Incompatible materials

Acids; Alkalis

10.6 Hazardous decomposition products

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No hazardous decomposition products known.

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 | pyridine-2-thiol 1-oxide, sodium salt | 3811-73-2 | 223-296-5 |
| LD50 | | 1208 | mg/kg bodyweight |
| Species | rat | | |
| Method | OECD 401 | | |
| Source | ECHA | | |

| Acute dermal toxicity (result of the ATE calculation for the mixture) | |
|---|---|
| No | Product Name |
| 1 | edding brillant paper marker refill service PTK25 (red) contained in: edding 30, edding 33 |
| Comments | The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE dermal > 2000 mg/kg). |

| Acute dermal toxicity | | | |
|-----------------------|---------------------------------------|-----------|------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | pyridine-2-thiol 1-oxide, sodium salt | 3811-73-2 | 223-296-5 |
| LD50 | | 1800 | mg/kg bodyweight |
| Species | rabbit | | |
| Source | ECHA | | |

| Acute inhalational toxicity | | | |
|-----------------------------|---------------------------------------|-----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | pyridine-2-thiol 1-oxide, sodium salt | 3811-73-2 | 223-296-5 |
| LC50 | | 1.08 | mg/l |
| Duration of exposure | | 4 | h |
| State of aggregation | Dust/mist | | |
| Species | rat | | |
| Source | ECHA | | |

| Skin corrosion/irritation | | | |
|---------------------------|---------------------------------------|-----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | pyridine-2-thiol 1-oxide, sodium salt | 3811-73-2 | 223-296-5 |
| Species | rabbit | | |
| Method | OECD 404 | | |
| Source | ECHA | | |
| Evaluation | irritant | | |

| Serious eye damage/irritation | | | |
|-------------------------------|---------------------------------------|-----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | pyridine-2-thiol 1-oxide, sodium salt | 3811-73-2 | 223-296-5 |
| Species | rabbit | | |
| Source | ECHA | | |
| Evaluation | Irritating to eyes | | |

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

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

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

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| |
|---|
| 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 |
| 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. |

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 | Substance name | CAS no. | EC no. |
| 1 | pyridine-2-thiol 1-oxide, sodium salt | 3811-73-2 | 223-296-5 |
| LC50 | | 0.0073 | mg/l |
| Duration of exposure | | 96 | h |
| Species | Oncorhynchus mykiss | | |
| Source | ECHA | | |

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

| Toxicity to Daphnia (acute) | | | |
|------------------------------------|---------------------------------------|-----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | pyridine-2-thiol 1-oxide, sodium salt | 3811-73-2 | 223-296-5 |
| EC50 | | 0.022 | mg/l |
| Duration of exposure | | 48 | h |
| Species | Daphnia magna | | |
| Source | ECHA | | |

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

| Toxicity to algae (acute) | | | |
|----------------------------------|---------------------------------------|-----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | pyridine-2-thiol 1-oxide, sodium salt | 3811-73-2 | 223-296-5 |
| ErC50 | | 0.46 | mg/l |
| Duration of exposure | | 72 | h |
| Species | Pseudokirchneriella subcapitata | | |
| Method | OECD 201 | | |
| Source | ECHA | | |

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

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

12.2 Persistence and degradability

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| Biodegradability | | | |
|------------------|---------------------------------------|------------------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | pyridine-2-thiol 1-oxide, sodium salt | 3811-73-2 | 223-296-5 |
| Type | | aerobic biodegradation | |
| Value | | 60 | % |
| Duration | | 18 | day(s) |
| Method | | OECD 301 B | |
| Source | | ECHA | |
| 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

| Results of PBT and vPvB assessment | |
|------------------------------------|---|
| PBT assessment | The components of this product are not considered to be a PBT. |
| vPvB assessment | The components of this product are not considered to be a vPvB. |

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

12.8 Other information

| Other information |
|--|
| Ecological data are not available. |
| 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

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

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

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

14.4 Other information

No data available.

14.5 Environmental hazards

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

14.6 Special precautions for user

No data available.

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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

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances subject to restriction as listed in Annex XVII of the REACH regulation (EC) 1907/2006.

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

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

15.2 Chemical safety assessment

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

SECTION 16: Other information

Sources of key data used to compile the data sheet:

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

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)

| | |
|------|---|
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

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

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

Creation of the safety data sheet

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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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