

**Trade name:** edding brillant paper marker refill service PTK25 (blue, green) contained in: edding 30, edd

**Current version :** 1.0.0, issued: 13.05.2015

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

**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 (blue, green) 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**

Ink for use in drawliners

**Uses advised against**

No data available.

### 1.3 Details of the supplier of the safety data sheet

**Address**

edding International GmbH

Bookkoppel 7

D-22926 Ahrensburg

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

**Information provided by / telephone**

+49 (0)4102 - 808-0

**Advice on Safety Data Sheet**

sdb\_info@umco.de

### 1.4 Emergency telephone number

For medical advice (in German and English):

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

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Eye Irrit. 2; H319

Skin Irrit. 2; H315

Skin Sens. 1; H317

**Classification in accordance with Directive 67/548/EEC or 1999/45/EC**

R43

### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)**

**Hazard pictograms**



GHS07

**Signal word**

Warning

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

1,2-benzisothiazol-3(2H)-one

**Hazard statements**

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H319

Causes serious eye irritation.

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#### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P501 Dispose of contents/container in accordance with local and national regulations.

#### 2.3 Other hazards

No data available.

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Not applicable. The product is not a substance.

#### 3.2 Mixtures

##### Chemical characterization

Aqueous preparation

##### Hazardous ingredients

No	Substance name	Classification	Classification (EC)	Additional information	%
	CAS / EC / Index / REACH no	67/548/EEC	1272/2008 (CLP)	Concentration	
1	<b>ethanediol</b>				
	107-21-1 203-473-3 603-027-00-1 -	Xn; R22	Acute Tox. 4*; H302	1.00 - 5.00	%-b.w.
2	<b>propan-2-ol</b>				
	67-63-0 200-661-7 603-117-00-0 -	F; R11 Xi; R36 R67	Eye Irrit. 2; H319 Flam. Liq. 2; H225 STOT SE 3; H336	0.10 - 1.00	%-b.w.
3	<b>ammonia, anhydrous</b>				
	7664-41-7 231-635-3 007-001-00-5 -	R10 T; R23 C; R34 N; R50	Acute Tox. 3*; H331 Aquatic Acute 1; H400 Flam. Gas 2; H221 Press. Gas Skin Corr. 1B; H314	0.10 - 1.00	%-b.w.
4	<b>1,2-benzisothiazol-3(2H)-one</b>				
	2634-33-5 220-120-9 613-088-00-6 -	Xn; R22 Xi; R38 Xi; R41 R43 N; R50	Acute Tox. 4*; H302 Aquatic Acute 1; H400 Eye Dam. 1; H318 Skin Irrit. 2; H315 Skin Sens. 1; H317	0.05 - 0.15	%-b.w.

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

(\* , \*\* , \*\*\* , \*\*\*\*) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
3	U	-	-	-
4	-	Skin Sens. 1; H317: C >= 0.05%	-	-

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)".

#### 3.3 Other information

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

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## 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 lens. 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 mouth thoroughly with water. 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

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

None known.

### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing.

#### 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 picked up, treat material as prescribed under heading "Disposal considerations".

### 6.4 Reference to other sections

No data available.

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## 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). Observe the usual precautions for handling chemicals.

#### **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**

No special measures necessary.

### 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.

#### **Requirements for storage rooms and vessels**

Store product in closed containers.

#### **Advice on storage assembly**

None known

### 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	<b>ethanediol</b>	<b>107-21-1</b>	<b>203-473-3</b>
	<b>2000/39/EWG</b>		
	Ethylene glycol		
	STEL	104	mg/m <sup>3</sup> 40 ml/m <sup>3</sup>
	TWA	52	mg/m <sup>3</sup> 20 ml/m <sup>3</sup>
	Skin resorption / sensibilisation	Skin	
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		
	Ethane 1,2-diol		
	particulate		
	TWA	10	mg/m <sup>3</sup>
	Skin resorption / sensibilisation	Sk	
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		
	Ethane 1,2-diol		
	vapour		
	STEL	104	mg/m <sup>3</sup>
	TWA	52	mg/m <sup>3</sup>
	Skin resorption / sensibilisation	Sk	
2	<b>propan-2-ol</b>	<b>67-63-0</b>	<b>200-661-7</b>
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		
	Propan-2-ol		
	STEL	1250	mg/m <sup>3</sup> 500 ml/m <sup>3</sup>
	TWA	999	mg/m <sup>3</sup> 400 ml/m <sup>3</sup>
3	<b>ammonia, anhydrous</b>	<b>7664-41-7</b>	<b>231-635-3</b>
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		
	Ammonia		
	STEL	25	mg/m <sup>3</sup> 35 ml/m <sup>3</sup>
	TWA	18	mg/m <sup>3</sup> 25 ml/m <sup>3</sup>
	<b>2000/39/EWG</b>		
	Ammonia, anhydrous		
	STEL	36	mg/m <sup>3</sup> 50 ml/m <sup>3</sup>
	TWA	14	mg/m <sup>3</sup> 20 ml/m <sup>3</sup>

### 8.2 Exposure controls

#### **Appropriate engineering controls**

No data available.

#### **Personal protective equipment**

##### **Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

##### **Eye / face protection**

Safety glasses (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.

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**Environmental exposure controls**

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Form/Colour</b>	
liquid	
blue; green	
<b>Odour</b>	
No data available	
<b>Odour threshold</b>	
No data available	
<b>pH value</b>	
No data available	
<b>Boiling point / boiling range</b>	
Value	100 °C
<b>Melting point / melting range</b>	
No data available	
<b>Decomposition point / decomposition range</b>	
No data available	
<b>Flash point</b>	
Not applicable	
<b>Auto-ignition temperature</b>	
No data available	
<b>Oxidising properties</b>	
No data available	
<b>Explosive properties</b>	
No data available	
<b>Flammability (solid, gas)</b>	
No data available	
<b>Lower flammability or explosive limits</b>	
No data available	
<b>Upper flammability or explosive limits</b>	
No data available	
<b>Vapour pressure</b>	
No data available	
<b>Vapour density</b>	
No data available	
<b>Evaporation rate</b>	
No data available	
<b>Relative density</b>	
No data available	
<b>Density</b>	
no data available	
<b>Solubility in water</b>	
Remarks	soluble

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Solubility(ies)	
No data available	

Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9
log Pow		1.3	
Source		Manufacturer	

Viscosity	
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

No data available.

### 10.5 Incompatible materials

None known.

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute oral toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	edding brillant paper marker refill service PTK25 (blue, green) contained in: edding 30, edding 33
Remarks	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 oral > 2000 mg/kg).

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
LD50		5280 mg/kg bodyweight	
Species		rat	
Source		Manufacturer	
2	1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9
LD50		1193 mg/kg bodyweight	
Species		rat	
Source		Manufacturer	

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Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
LD50		12800	mg/kg bodyweight
Species	rabbit		
Source	Manufacturer		
2	1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9
LD50		4115	mg/kg bodyweight
Species	rat		
Source	Manufacturer		

Acute inhalational toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	edding brillant paper marker refill service PTK25 (blue, green) contained in: edding 30, edding 33
Remarks	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 for inhalation: > 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists).

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
LC50		72.6	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		
Species	rat		
Source	Manufacturer		

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
Repeated and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin. Eye contact with the product may lead to irritation.



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**SECTION 12: Ecological information**

**12.1 Toxicity**

<b>Toxicity to fish (acute)</b>			
No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
LC50		9640	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Source	Manufacturer		
2	1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9
LC50		2.18	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	Manufacturer		
<b>Toxicity to fish (chronic)</b>			
No data available			
<b>Toxicity to Daphnia (acute)</b>			
No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
EC50		13299	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Source	Manufacturer		
2	1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9
EC50		2.94	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	Manufacturer		
<b>Toxicity to Daphnia (chronic)</b>			
No data available			
<b>Toxicity to algae (acute)</b>			
No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
EC50		>	1000
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Source	Manufacturer		
2	1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9
ErC50		0.11	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	Manufacturer		

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

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

## 12.2 Persistence and degradability

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

## 12.3 Bioaccumulative potential

<b>Partition coefficient: n-octanol/water</b>			
No	Substance name	CAS no.	EC no.
1	1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9
log Pow		1.3	
Source	Manufacturer		

## 12.4 Mobility in soil

No data available.

## 12.5 Results of PBT and vPvB assessment

No data available.

## 12.6 Other adverse effects

No data available.

## 12.7 Other information

<b>Other information</b>
Do not discharge product unmonitored into the environment.

# SECTION 13: Disposal considerations

## 13.1 Waste treatment methods

### Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

### Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

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## SECTION 14: Transport information

### 14.1 Transport ADR/RID/ADN

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.

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

#### **Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

#### **REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

#### **Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.	No 3
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#### **Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances**

Remarks Annex I, part 1 + 2: not mentioned. With regard to possibly appropriate decomposition products see Chapter 10.

### 15.2 Chemical safety assessment

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

## SECTION 16: Other information

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

EC Directive 67/548/EC resp. 1999/45/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/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

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**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.
R22	Harmful if swallowed.
R23	Toxic by inhalation.
R34	Causes burns.
R36	Irritating to eyes.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitisation by skin contact.
R50	Very toxic to aquatic organisms.
R67	Vapours may cause drowsiness and dizziness.
H221	Flammable gas.
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.

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

U	When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.
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**Department issuing safety data sheet**

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