

Trade name: edding Porcelain marker ink (steel blue) contained in: edding 4200

Current version : 2.1.1, issued: 03.03.2017

Replaced version: 2.1.0, issued: 09.06.2016

Region: GB

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

1.1 Product identifier

Trade name

edding Porcelain marker ink (steel blue) contained in: edding 4200

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)

Skin Sens. 1; H317

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



GHS07

Signal word

Warning

Hazardous component(s) to be indicated on label:

1,3,5-tris(2-hydroxyethyl)-1,3,5-triazinane

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

Hazard statements

H317

May cause an allergic skin reaction.

Trade name: edding Porcelain marker ink (steel blue) contained in: edding 4200

Current version : 2.1.1, issued: 03.03.2017

Replaced version: 2.1.0, issued: 09.06.2016

Region: GB

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 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	ethanediol			
	107-21-1 203-473-3 603-027-00-1 -	Acute Tox. 4*; H302	< 2.50	%-b.w.
2	ammonia, anhydrous			
	7664-41-7 231-635-3 007-001-00-5 -	Acute Tox. 3*; H331 Aquatic Acute 1; H400 Flam. Gas 2; H221 Press. Gas Skin Corr. 1B; H314	< 0.50	%-b.w.
3	1,3,5-tris(2-hydroxyethyl)-1,3,5-triazinane			
	4719-04-4 225-208-0 613-114-00-6 -	Acute Tox. 4*; H302 Skin Sens. 1; H317	< 0.50	%-b.w.
4	ammonia, anhydrous			
	7664-41-7 231-635-3 007-001-00-5 01-2119488876-14	Acute Tox. 3; H331 Aquatic Acute 1; H400 Skin Corr. 1B; H314 Press. Gas; H280 Flam. Gas 2; H221	< 0.50	%-b.w.
5	1,2-benzisothiazol-3(2H)-one			
	2634-33-5 220-120-9 613-088-00-6 -	Acute Tox. 4*; H302 Aquatic Acute 1; H400 Eye Dam. 1; H318 Skin Irrit. 2; H315 Skin Sens. 1; H317	< 0.50	%-b.w.
6	glycerol			
	56-81-5 200-289-5 - -	-	< 5.00	%-b.w.

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

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

Trade name: edding Porcelain marker ink (steel blue) contained in: edding 4200

Current version : 2.1.1, issued: 03.03.2017

Replaced version: 2.1.0, issued: 09.06.2016

Region: GB

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
2	U	-	-	-
3	-	Skin Sens. 1; H317: C \geq 0.1%	-	-
4	U	Skin Irrit. 2; H315: C \geq 1% Skin Corr. 1B; H314: C \geq 5% Aquatic Acute 1; H400: C \geq 25%	M = 1	-
5	-	Skin Sens. 1; H317: C \geq 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).

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.

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 mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Cool endangered containers 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.

Trade name: edding Porcelain marker ink (steel blue) contained in: edding 4200

Current version : 2.1.1, issued: 03.03.2017

Replaced version: 2.1.0, issued: 09.06.2016

Region: GB

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). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn.

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.

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 one.

7.3 Specific end use(s)

No data available.

Trade name: edding Porcelain marker ink (steel blue) contained in: edding 4200

Current version : 2.1.1, issued: 03.03.2017

Replaced version: 2.1.0, issued: 09.06.2016

Region: GB

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

No	Substance name	CAS no.	EC no.	
1	glycerol	56-81-5	200-289-5	
List of approved workplace exposure limits (WELs) / EH40				
Glycerol mist				
	TWA	10	mg/m ³	
2	ethanediol	107-21-1	203-473-3	
2000/39/EWG				
Ethylene glycol				
	STEL	104	mg/m ³	40 ml/m ³
	TWA	52	mg/m ³	20 ml/m ³
	Skin resorption / sensibilisation		Skin	
List of approved workplace exposure limits (WELs) / EH40				
Ethane 1,2-diol				
particulate				
	TWA	10	mg/m ³	
	Skin resorption / sensibilisation		Sk	
List of approved workplace exposure limits (WELs) / EH40				
Ethane 1,2-diol				
vapour				
	STEL	104	mg/m ³	
	TWA	52	mg/m ³	
	Skin resorption / sensibilisation		Sk	
3	ammonia, anhydrous	7664-41-7	231-635-3	
List of approved workplace exposure limits (WELs) / EH40				
Ammonia				
	STEL	25	mg/m ³	35 ml/m ³
	TWA	18	mg/m ³	25 ml/m ³
2000/39/EWG				
Ammonia, anhydrous				
	STEL	36	mg/m ³	50 ml/m ³
	TWA	14	mg/m ³	20 ml/m ³
4	ammonia, anhydrous	7664-41-7	231-635-3	
List of approved workplace exposure limits (WELs) / EH40				
Ammonia				
	STEL	25	mg/m ³	35 ml/m ³
	TWA	18	mg/m ³	25 ml/m ³
2000/39/EWG				
Ammonia, anhydrous				
	STEL	36	mg/m ³	50 ml/m ³
	TWA	14	mg/m ³	20 ml/m ³

DNEL and PNEC values

DNEL values (worker)

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value
1	ammonia, anhydrous			7664-41-7 231-635-3
	dermal	Short term (acut)	systemic	6.8 mg/kg/day
	dermal	Long term (chronic)	systemic	6.8 mg/kg/day
	inhalative	Short term (acut)	systemic	47.6 mg/m ³
	inhalative	Short term (acut)	local	36 mg/m ³
	inhalative	Long term (chronic)	systemic	47.6 mg/m ³
	inhalative	Long term (chronic)	local	14 mg/m ³

Trade name: edding Porcelain marker ink (steel blue) contained in: edding 4200

Current version : 2.1.1, issued: 03.03.2017

Replaced version: 2.1.0, issued: 09.06.2016

Region: GB

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	ammonia, anhydrous			7664-41-7 231-635-3	
	oral	Short term (acut)	systemic	6.8	mg/kg/day
	oral	Long term (chronic)	systemic	6.8	mg/kg/day
	dermal	Short term (acut)	systemic	68	mg/cm ²
	dermal	Long term (chronic)	systemic	68	mg/cm ²
	inhalative	Short term (acut)	systemic	23.8	mg/m ³
	inhalative	Short term (acut)	local	7.2	mg/m ³
	inhalative	Long term (chronic)	systemic	23.8	mg/m ³
	inhalative	Long term (chronic)	local	2.8	mg/m ³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	ammonia, anhydrous		7664-41-7 231-635-3	
	water	fresh water	0.0011	mg/l
	water	marine water	0.0011	mg/l

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.

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
dark blue
Odour
characteristic

Trade name: edding Porcelain marker ink (steel blue) contained in: edding 4200

Current version : 2.1.1, issued: 03.03.2017

Replaced version: 2.1.0, issued: 09.06.2016

Region: GB

Odour threshold			
No data available			
pH value			
No data available			
Boiling point / boiling range			
No data available			
Melting point / melting range			
No data available			
Decomposition point / decomposition range			
No data available			
Flash point			
No data available			
Auto-ignition temperature			
No data available			
Oxidising properties			
No data available			
Explosive properties			
No data available			
Flammability (solid, gas)			
No data available			
Lower flammability or explosive limits			
No data available			
Upper flammability or explosive limits			
No data available			
Vapour pressure			
No data available			
Vapour density			
No data available			
Evaporation rate			
No data available			
Relative density			
No data available			
Density			
No data available			
Solubility in water			
No data available			
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	

Trade name: edding Porcelain marker ink (steel blue) contained in: edding 4200

Current version : 2.1.1, issued: 03.03.2017

Replaced version: 2.1.0, issued: 09.06.2016

Region: GB

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

Heat, naked flames and other ignition sources.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

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 Porcelain marker ink (steel blue) contained in: edding 4200
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	1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9
LD50		1193	mg/kg bodyweight
Species	rat		
Source	Manufacturer		

Acute dermal toxicity

No	Substance name	CAS no.	EC no.
1	1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9
LD50		4115	mg/kg bodyweight
Species	rat		
Source	Manufacturer		

Trade name: edding Porcelain marker ink (steel blue) contained in: edding 4200

Current version : 2.1.1, issued: 03.03.2017

Replaced version: 2.1.0, issued: 09.06.2016

Region: GB

Acute inhalational toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	edding Porcelain marker ink (steel blue) contained in: edding 4200
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 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	

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	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		
Toxicity to fish (chronic)			
No data available			
Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	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		

Trade name: edding Porcelain marker ink (steel blue) contained in: edding 4200

Current version : 2.1.1, issued: 03.03.2017

Replaced version: 2.1.0, issued: 09.06.2016

Region: GB

Toxicity to Daphnia (chronic)	
No data available	

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	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	

Toxicity to algae (chronic)	
No data available	

Bacteria toxicity	
No data available	

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

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	

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

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

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.

Trade name: edding Porcelain marker ink (steel blue) contained in: edding 4200

Current version : 2.1.1, issued: 03.03.2017

Replaced version: 2.1.0, issued: 09.06.2016

Region: GB

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 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
---	------

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.

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.

Trade name: edding Porcelain marker ink (steel blue) contained in: edding 4200

Current version : 2.1.1, issued: 03.03.2017

Replaced version: 2.1.0, issued: 09.06.2016

Region: GB

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

H221	Flammable gas.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
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.
---	--

Department issuing safety data sheet

UMCO GmbH

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

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

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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