

Current version : 4.1.0, issued: 27.04.2015

Replaced version: 4.0.0, issued: 27.02.2015

Region: GB

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

1.1 Product identifier

Trade name

edding Ink Permanent (blue) contained in: edding 21, edding 22

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture Refilling 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 in accordance with Regulation (EC) No 1272/2008 (CLP) Flam. Liq. 2; H225 STOT SE 3; H336 Classification in accordance with Directive 67/548/EEC or 1999/45/EC

F; R11 R67

2.2 Label elements

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

Hazard pictograms



Signal word Danger

Hazardous component(s) to be indicated on label:

1-methoxy-2-propanol

Hazard statements

H225 H336 Highly flammable liquid and vapour. May cause drowsiness or dizziness.



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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 for extinction.
P405	Store locked up.
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 Mixture (preparation)

Hazardous ingredients

No	Substance name				
	CAS / EC / Index / REACH no	Classification 67/548/EEC	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	ethanol				
	64-17-5 200-578-6 603-002-00-5 -	F; R11	Flam. Liq. 2; H225	> 50.00 - < 70.00	%-b.w.
2	1-methoxy-2-propa	nol			
	107-98-2 203-539-1 603-064-00-3 -	R10 R67	Flam. Liq. 3; H226 STOT SE 3; H336	> 25.00 - < 30.00	%-b.w.

Full Text for all R-phrases , 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

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

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.



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- **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

Cool endangered containers with water spray jet. Use self-contained breathing apparatus. Suppress gases/vapours/mists 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 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. 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 of working area (local exhaust ventilation, if necessary). 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.



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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.

Advice on storage assembly

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

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		
Material thickness		0.5	mm
Breakthrough time	>	240	min.

Other

Normal chemical work clothing.

Environmental exposure controls

No data available.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form/Colour					
liquid					
blue					
Odour					
characteristic					
Odour threshold					
No data available					
pH value					
No data available					
Boiling point / boiling range					
Value	>			70	°C
Reference pressure				1013	hPa
Melting point / melting range					
No data available					
Decomposition point / decomposition range					
No data available					
Flash point					
Value		18	-	21	C
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					
Value	<			110	kPa
Reference temperature				50	3 °
Vapour density					
No data available					
Evaporation rate					
No data available					
Relative density					
No data available					
Density					
Value		0.80	-	1.20	g/cm ³
Reference temperature				20	٥C



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Solubility in water			
No data available			
Solubility(ies)			
No data available			
Partition coefficient: n-octanol/water			
No data available			
Vienerity			
Viscosity	1		
Value	12 -	80	Sec
Reference temperature		20	°C
Туре	Efflux time		
Method	DIN cup 4 mm		
Solvent separation test			
Value	<	3	%

Value

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

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; Alkalis; Oxidizing agents

10.6 Hazardous decomposition products

Hydrogen

Source

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acu	Acute oral toxicity					
No	Substance name	C	CAS no.		EC no.	
1	ethanol	6	64-17-5		200-578-6	
LD5	0			6200	mg/kg bodyweight	
Spee	cies	rat				
Sou	rce	Manufacturer				
2	1-methoxy-2-propanol	1	07-98-2		203-539-1	
LD5	0			5660	mg/kg bodyweight	
Spee	cies	rat				
Sou	rce	Manufacturer				
Acu	te dermal toxicity					
No	Substance name	C	CAS no.		EC no.	
1	1-methoxy-2-propanol	1	07-98-2		203-539-1	
LD5	0			9999.99	mg/kg bodyweight	
Spee	cies	rabbit				

Manufacturer



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No data	available
Skin cor	rosion/irritation
No data	available
Serious	eye damage/irritation
No data	available
Respirat	ory or skin sensitisation
No data	available
Germ ce	II mutagenicity
No data	available
Reprodu	iction toxicity
No data	available
Carcino	genicity
No data	available
STOT-si	ngle exposure
No data	available
STOT-re	peated exposure
No data	available
Aspirati	on hazard
No data	available
	and immediate effects as well as chronic effects from short and long-term exposure
Inhalatio	n of solvent vapours in higher concentration may lead to nausea, headache, drowsiness and dizziness.
Repeate	d and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin.

SECTION 12: Ecological information

12.1 Toxicity

Tox	Foxicity to fish (acute)					
No	Substance name	CAS no.		EC no.		
1	ethanol	64-17-5		200-578-6		
LC5	0		8150	mg/l		
Dura	ation of exposure		96	h		
Spe	cies	Leuciscus idus				
Sou	rce	Manufacturer				
Tavi	isity to fish (shreesis)					
	icity to fish (chronic)					
No c	lata available					
Tox	icity to Daphnia (acute)					
No	Substance name	CAS no.		EC no.		
1	ethanol	64-17-5		200-578-6		
EC5	0	9268	- 14221	mg/l		
Dura	ation of exposure		48	h		
Spe	cies	Daphnia magna				
Sou	rce	Manufacturer				



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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

Biod	Biodegradability						
No	Substance name	CAS no.	EC no.				
1	ethanol	64-17-5	200-578-6				
Valu	e		%				
Source		Manufacturer					
Eval	uation	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** 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.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

Class	3
Classification code	F1
Packing group	II
Hazard identification no.	33
UN number	UN1263
Technical name	PAINT RELATED MATERIAL
Special Provision 640	640D
Tunnel restriction code	D/E
Label	3



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14.2	Transport IMDG Class Packing group UN number Proper shipping name EmS Label	3 II UN1263 PAINT RELATED MATERIAL F-E+S-E 3		
14.3	Transport ICAO-TI / IATA Class Packing group UN number Proper shipping name Label	3 II UN1263 Paint related material 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	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not relevant			
SEC ⁻	TION 15: Regulatory inform	ation		
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU regulations</u>			
Re	Regulation (FC) No 1907/2006 (REACH) Appen XIV (List of substances subject to authorisation)			

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 MANUFA THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS	
The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.	No 3, 40

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

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.
R67	Vapours may cause drowsiness and dizziness.
H226	Flammable liquid and vapour.

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.

Alterations/supplements:

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