

Current version: 4.0.0, issued: 03.03.2015 Replaced version: 3.1.0, issued: 14.03.2012 Region: GB

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

#### 1.1 Product identifier

Trade name

# edding permanent lnk (green) 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

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



Trade name: edding permanent Ink (green) contained in: edding 21, edding 22

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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.

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			Additional information	
	CAS / EC / Index /	Classification	Classification (EC)	Concentration	%
	REACH no	67/548/EEC	1272/2008 (CLP)		
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

Use self-contained breathing apparatus. Cool endangered containers with water spray jet. 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) / E	H40			
	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) / E	H40			
	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 workstation 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   Iiquid   green	
green  Odour characteristic  Odour threshold No data available  pH value No data available  Boiling point / boiling range Value Valu	
Odour threshold No data available  PH value No data available  Boiling point / boiling range  Value Reference pressure  No data available  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	
characteristic  Odour threshold No data available  pH value No data available  Boiling point / boiling range Value Reference pressure  No data available  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	
Odour threshold No data available  PH value No data available  Boiling point / boiling range Value Reference pressure  Value No data available  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    PH value	
PH value   No data available	
No data available   Soiling point / boiling range   Yalue	
Boiling point / boiling range  Value	
Value	
Value	
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  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	
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Flash point  Value 18 - 21 °C  Auto-ignition temperature  No data available  Oxidising properties  No data available  Explosive properties	
Value 18 - 21 °C  Auto-ignition temperature No data available  Oxidising properties No data available  Explosive properties	
Auto-ignition temperature  No data available  Oxidising properties  No data available  Explosive properties	
No data available  Oxidising properties  No data available  Explosive properties	
Oxidising properties No data available  Explosive properties	
No data available  Explosive properties	
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 °C	
Vapour density	
No data available	
Evaporation rate	
No data available	
Relative density	
No data available	
Density	
Value 0.80 - 1.20 g/cm <sup>3</sup>	
Reference temperature 20 °C	



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Solubility in water	
No data available	

# Solubility(ies)

No data available

# Partition coefficient: n-octanol/water No data available

No data available
Vicesity

Viscosity	
Value	12 - 80 sec
Reference temperature	20 °C
Туре	Efflux time
Method	DIN cup 4 mm

Solvent separation test			
Value	<	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

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

No hazardous decomposition products known.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

Acu	Acute oral toxicity				
No	Substance name	CAS	S no.		EC no.
1	ethanol	64-1	17-5		200-578-6
LD5	0			6200	mg/kg bodyweight
Spe	cies	rat			
Sou	rce	Manufacturer			
2	1-methoxy-2-propanol	107·	-98-2		203-539-1
LD5	0			5660	mg/kg bodyweight
Spe	cies	rat			
Sou	rce	Manufacturer			

Acu	Acute dermal toxicity					
No	Substance name	CAS no	0.	EC no.		
1	1-methoxy-2-propanol	107-98	-2	203-539-1		
LD5	0		9999.99	mg/kg bodyweight		
Species		rabbit				
·		Manufacturer				



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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

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Inhalation of solvent vapours in higher concentration may lead to nausea, headache, drowsiness and dizziness. Repeated 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

Toxi	Toxicity to fish (acute)					
No	Substance name	CAS no.		EC no.		
1	ethanol	64-17-5		200-578-6		
LC5	0	3	8150	mg/l		
Dura	ation of exposure		96	h		
Species		Leuciscus idus				
		Manufacturer				

# Toxicity to fish (chronic)

No data available

Tox	Toxicity 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		
Species		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		%			
Soul	rce	Manufacturer				
		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



Trade name: edding permanent lnk (green) contained in: edding 21, edding 22

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#### 14.2 Transport IMDG

Class 3
Packing group II
UN number UN1263

Proper shipping name PAINT RELATED MATERIAL

EmS F-E+S-E Label 3

#### 14.3 Transport ICAO-TI / IATA

Class 3
Packing group II
UN number UN1263

Proper shipping name Paint related material

Label 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

# **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

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.



Trade name: edding permanent lnk (green) contained in: edding 21, edding 22

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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

UMCO Umwelt Consult GmbH

Georg-Wilhelm-Str. 183, D-21107 Hamburg

Tel.: +49 40 / 79 02 36 300 Fax: +49 40 / 79 02 36 357 e-mail: umco@umco.de

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.



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

#### 1.1 Product identifier

**Trade name** 

# edding Ink Permanent (red) 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. 3; H226 STOT SE 3; H336

#### 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-methoxy-2-propanol

# **Hazard statements**

H226 Flammable liquid and vapour. H336 May cause drowsiness or dizziness.



Trade name: edding Ink Permanent (red) contained in: edding 21, edding 22

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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.

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		Additional information	
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Concentration	%
	REACH no			
1	1-methoxy-2-propa	nol		
	107-98-2 203-539-1 603-064-00-3	Flam. Liq. 3; H226 STOT SE 3; H336	< 75.00	%-b.w.
2	ethanol		pls. refer to footnote (1)	
	64-17-5 200-578-6 603-002-00-5 -	Flam. Liq. 2; H225 Eye Irrit. 2; H319	< 10.00	%-b.w.

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

<sup>(1)</sup> 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)
2	-	Eye Irrit. 2; H319: C >= 50%	-	-

# 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 eve contact

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



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#### After ingestion

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

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. Cool endangered containers with water spray jet. 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). 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.



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#### 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.

### 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	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				
2	ethanol	64-17-5		200-578-6		
	List of approved workplace exposure limits (WELs) / E	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 workstation 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.



Current version: 1.1.0, issued: 03.12.2015 Replaced version: 1.0.0, issued: 14.10.2014 Region: GB

#### **Environmental exposure controls**

No data available.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

ı	Form/Colour				
	liquid				
	red				
ĺ	Odour				
	characteristic				
!					
	Odour threshold				
	No data available				
	pH value				
	Value	appr.	6.9		
	Boiling point / boiling range				
	Value	appr.	108	°C	
	Reference pressure		1013	hPa	
Melting point / melting range					
	No data available				
	Decomposition point / decomposition range				
	No data available				
	Flash point				
	Value	appr.	28	°C	
ĺ	Auto-ignition temperature				
	No data available				
, 					
	Oxidising properties  No data available				
J I					
	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	°C	
	Vapour density				
	No data available				
	Evaporation rate				
	No data available				
	Relative density				
	No data available				
j	Density				
	Value	appr.	0.944	g/cm <sup>3</sup>	
	Reference temperature		20	č	



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Solubility in water
No data available

Solubility(ies)

No data available

Partition coefficient: n-octanol/water

No data available

ViscosityValueappr.13 secReference temperature20 °CTypeEfflux timeMethodDIN cup 4 mm

Solvent separation test				
Value	<	3	%	
Reference temperature		20	°C	

#### 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

Formation of hydrogen gas upon contact with materials to avoid. Explosion hazard.

#### 10.4 Conditions to avoid

Heat, naked flames and other ignition sources. Protect from humid air and water.

#### 10.5 Incompatible materials

Acids; Alkalis; Oxidizing agents

# 10.6 Hazardous decomposition products

Hydrogen

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

Acute oral toxicity							
No	Substance name	CAS no.		EC no.			
1	1-methoxy-2-propanol	107-98-2		203-539-1			
LD5	0		5660	mg/kg bodyweight			
Spec		rat					
Soul	rce	Manufacturer					

Acu	Acute dermal toxicity							
No	Substance name	CAS no.		EC no.				
1	1-methoxy-2-propanol	107-98-2		203-539-1				
LD5	0		9999.99	mg/kg bodyweight				
Species		rabbit						
		Manufacturer						



Trade name: edding Ink Permanent (red) contained in: edding 21, edding 22

Current version: 1.1.0, issued: 03.12.2015 Replaced version: 1.0.0, issued: 14.10.2014 Region: GB

# 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

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Inhalation of solvent vapours in higher concentration may lead to nausea, headache, drowsiness and dizziness. Repeated and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin.



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# **SECTION 12: Ecological information**

#### 12.1 Toxicity

#### Toxicity to fish (acute)

No data available

#### Toxicity to fish (chronic)

No data available

# Toxicity to Daphnia (acute)

No data available

# **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

No data available.

#### 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.



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# **SECTION 14: Transport information**

#### 14.1 Transport ADR/RID/ADN

Class 3 Classification code F1 Packing group Ш Hazard identification no. 33 **UN** number UN1263

Technical name PAINT RELATED MATERIAL

Special Provision 640 640D Tunnel restriction code D/E Label

#### 14.2 Transport IMDG

Class 3 Packing group Ш

**UN** number UN1263

PAINT RELATED MATERIAL Proper shipping name

F-E+S-E **FmS** Label

# 14.3 Transport ICAO-TI / IATA

Class 3 Packing group Ш **UN** number

UN1263

Proper shipping name Paint related material

Label

#### Other information

No data available.

#### 14.5 Environmental hazards

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

#### 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

No 3, 40 The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.

# Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances This product is subject to Part I of Annex I, risk category:



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# 15.2 Chemical safety assessment

No data available.

# **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.

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

H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation.

### Department issuing safety data sheet

**UMCO Umwelt Consult GmbH** 

Georg-Wilhelm-Str. 183, D-21107 Hamburg

Tel.: +49 40 / 79 02 36 300 Fax: +49 40 / 79 02 36 357 e-mail: umco@umco.de

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.

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

#### 1.1 Product identifier

**Trade name** 

# edding permanent ink (black) 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)

Eye Irrit. 2; H319 Flam. Liq. 2; H225

STOT SE 3; H336

#### **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

Danger

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

1-methoxy-2-propanol



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**Hazard statements** 

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

**Precautionary statements** 

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		Addition	al informatio	n	
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Concenti	ration		%
	REACH no					
1	1-methoxy-2-propa	nol				
	107-98-2	Flam. Liq. 3; H226		<	45.00	%-b.w.
	203-539-1	STOT SE 3; H336				
	603-064-00-3					
	-					
2	ethanol		pls. refer	to footnote	(1)	
	64-17-5	Flam. Liq. 2; H225		<	30.00	%-b.w.
	200-578-6	Eye Irrit. 2; H319				
	603-002-00-5					
	-					
3	Poly(oxy-1,2-ethan	ediyl), alpha-decyl-omega-hydroxy-, phosphate				
	52019-36-0	Eye Dam. 1; H318	< :	3.00		%-b.w.
	-	Skin Irrit. 2; H315				
	-					
	-					

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

<sup>(1)</sup> 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)
2	-	Eye Irrit. 2; H319: C >= 50%	•	-

# 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.



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#### 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 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 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

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).

# 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.



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#### 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 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	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				
2	ethanol	64-17-5		200-578-6		
	List of approved workplace exposure limits (WELs) / E	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 workstation 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.



Trade name: edding permanent ink (black) contained in: edding 21, edding 22

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Other

Normal chemical work clothing.

**Environmental exposure controls** 

No data available.

# **SECTION 9: Physical and chemical properties**

#### Q.1 Information on basic physical and chemical properties

9.	9.1 Information on basic physical and chemical properties							
	Form/Colour							
	liquid							
	black							
Odour								
	characteristic							
	Odour threshold							
	No data available							
	pH value							
	Value	appr.	4					
•								
	Boiling point / boiling range Value	appr.	75	°C				
	Reference pressure	аррі.	1013	hPa				
•								
	Melting point / melting range  No data available							
	Decomposition point / decomposition range No data available	9						
ı	Flash point Value	loppr	18	°C				
		appr.	10	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	°C				



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Vanaur danaitu							
Vapour density No data available							
Evaporation rate							
No data available							
Relative density No data available							
Density							
Value	appr.	0.928	g/cm³				
Reference temperature		20	°C				
Solubility in water							
No data available							
Solubility(ies)							
No data available							
110 data avallable							
Partition coefficient: n-octanol/water							
No data available							
Viscosity							
Value	appr.	12	sec				
Reference temperature		20	°C				
Type	Efflux time						
Method	DIN cup 4 mm						
Solvent separation test							
Value	<	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

Heat, naked flames and other ignition sources. Moisture.

# 10.5 Incompatible materials

Acids; Alkalis; Oxidizing agents

# 10.6 Hazardous decomposition products

Hydrogen

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

Acute oral toxicity						
No	Substance name	CAS no.		EC no.		
1	1-methoxy-2-propanol	107-98-2		203-539-1		
LD5	0		5660	mg/kg bodyweight		
Species		rat				
Sou	rce	Manufacturer				



Trade name: edding permanent ink (black) contained in: edding 21, edding 22

Current version: 5.1.0, issued: 23.11.2015 Replaced version: 5.0.0, issued: 20.07.2015 Region: GB

Acu	Acute 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			
Species		rabbit						
Sou	rce	Manufacturer						

# 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

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Inhalation of solvent vapours in higher concentration may lead to nausea, headache, drowsiness and dizziness. Repeated and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin.



Current version: 5.1.0, issued: 23.11.2015 Replaced version: 5.0.0, issued: 20.07.2015 Region: GB

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

#### Toxicity to fish (acute)

No data available

#### Toxicity to fish (chronic)

No data available

# Toxicity to Daphnia (acute)

No data available

# **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

No data available.

#### 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.



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# **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

#### 14.2 Transport IMDG

Class 3
Packing group II

UN number UN1263

Proper shipping name PAINT RELATED MATERIAL

EmS F-E+S-E Label 3

# 14.3 Transport ICAO-TI / IATA

Class 3
Packing group II
UN number UN1263

Proper shipping name Paint related material

Label 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 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>

# 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 No 3, 40 XVII.

# Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances This product is subject to Part I of Annex I, risk category: P5b



Trade name: edding permanent ink (black) contained in: edding 21, edding 22

Current version: 5.1.0, issued: 23.11.2015 Replaced version: 5.0.0, issued: 20.07.2015 Region: GB

#### 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:

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.

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

H226 Flammable liquid and vapour. H315 Causes skin irritation. H318 Causes serious eye damage.

#### Department issuing safety data sheet

UMCO Umwelt Consult GmbH

Georg-Wilhelm-Str. 183, D-21107 Hamburg

Tel.: +49 40 / 79 02 36 300 Fax: +49 40 / 79 02 36 357 e-mail: umco@umco.de

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.

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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

#### **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

edding International GmbH

Bookkoppel 7

D-22926 Ahrensburg

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

Information provided by / telephone

+49 (0)4102 - 808-0

**Advice on Safety Data Sheet** 

sdb\_info@umco.de

# **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

# <u>Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)</u>

#### 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.



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

Current version: 4.1.0, issued: 27.04.2015 Reglaced version: 4.0.0, issued: 27.02.2015 Region: GB

#### **Precautionary statements**

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			Additional information	
	CAS / EC / Index /	Classification	Classification (EC)	Concentration	%
	REACH no	67/548/EEC	1272/2008 (CLP)		
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) / E	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 workstation 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	°C
Vapour density					
No data available					
Evaporation rate					
No data available					
Relative density					
No data available					
Value		0.80		1.20	g/cm <sup>3</sup>
Reference temperature		0.00		20	°C
				_	



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Solubility in water
No data available

Solubility(ies)

No data available

Partition coefficient: n-octanol/water

No data available

 Viscosity

 Value
 12 - 80 sec

 Reference temperature
 20 °C

 Type
 Efflux time

 Method
 DIN cup 4 mm

 Solvent separation test

 Value
 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

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

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

Acu	Acute oral toxicity						
No	Substance name	CAS no.		EC no.			
1	ethanol	64-17-5		200-578-6			
LD5	0		6200	mg/kg bodyweight			
Spe	cies	rat					
Sou	rce	Manufacturer					
2	1-methoxy-2-propanol	107-98-2		203-539-1			
LD5	0		5660	mg/kg bodyweight			
Spe	cies	rat					
Sou	rce	Manufacturer					

Acu	Acute dermal toxicity						
No	Substance name	CAS no.		EC no.			
1	1-methoxy-2-propanol	107-98-2		203-539-1			
LD5	0		9999.99	mg/kg bodyweight			
Species		rabbit					
·		Manufacturer					



Current version: 4.1.0, issued: 27.04.2015 Replaced version: 4.0.0, issued: 27.02.2015 Region: GB

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

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Inhalation of solvent vapours in higher concentration may lead to nausea, headache, drowsiness and dizziness. Repeated 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

Toxi	Toxicity to fish (acute)							
No	Substance name	CAS no.		EC no.				
1	ethanol	64-17-5		200-578-6				
LC5	0	3	8150	mg/l				
Dura	ation of exposure		96	h				
Species		Leuciscus idus						
Soul	rce	Manufacturer						

# Toxicity to fish (chronic)

No data available

Toxi	Toxicity 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					
Spec	cies	Daphnia magna							
Soul	rce	Manufacturer							



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

Current version: 4.1.0, issued: 27.04.2015 Replaced version: 4.0.0, issued: 27.02.2015 Region: GB

**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

Biodegradability			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
Value			%
Source		Manufacturer	
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

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



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

Current version: 4.1.0, issued: 27.04.2015 Reglaced version: 4.0.0, issued: 27.02.2015 Region: GB

#### 14.2 Transport IMDG

Class 3
Packing group II
UN number UN1263

Proper shipping name PAINT RELATED MATERIAL

EmS F-E+S-E Label 3

#### 14.3 Transport ICAO-TI / IATA

Class 3
Packing group II
UN number UN1263

Proper shipping name Paint related material

Label 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

# **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.

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The product is considered being subject to REACH regulation (EC) 1907/2006 annexe

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.



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

Current version: 4.1.0, issued: 27.04.2015 Reglaced version: 4.0.0, issued: 27.02.2015 Region: GB

# 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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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.

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