

Current version : 7.0.0, issued: 01.12.2015 Replaced version: 6.0.0, issued: 20.07.2015 Region: GB

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

1.1 Product identifier

Trade name

edding Permanent Marker Refill Ink T25, T100, T1000, MTK25 (blue) contained in: edding 2000 C

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

2.2 Label elements

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

Hazard pictograms







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.



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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	Flam. Liq. 3; H226	< 85.00	%-b.w.
	203-539-1	STOT SE 3; H336		
	603-064-00-3			
	-			
2	29H,31H phthalocy	(2-ethylhexyl)oxy]propyl]amino]sulphonyl]- aninesulphonato(3-)-N-{29}-,N-{30}-,N-{31}-,N- ompound with 3-[(2-ethylhexyl)oxy]propylamine lue 70		
	94277-77-7 304-661-9 -	Aquatic Chronic 3; H412	< 5.00	%-b.w.

Full Text for all 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 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.



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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. Wear protective clothing. Suppress gases/vapours/mists with water spray jet.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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

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.

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.



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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) / I	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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form/Colour
quid
olue

Odour	
characteristic	



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	Odour threshold					
	No data available					
	pH value No data available					
	Boiling point / boiling range					
	Value Reference pressure	appr.	110 1013	°C hPa		
	Melting point / melting range No data available					
	Decomposition point / decomposition range No data available					
	Flash point Value	appr.	30	°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 Reference temperature	<	110 50	kPa °C		
	Vapour density No data available					
	Evaporation rate No data available					
	Relative density No data available					
	Value Reference temperature	appr.	0.962 20	g/cm³ °C		
	Solubility in water No data available					
	Solubility(ies) No data available					
	Partition coefficient: n-octanol/water No data available					
	Viscosity					
	Value Reference temperature	appr.	13 20	sec °C		
	Type Method	Efflux time DIN cup 4 mm				



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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

No data available.

10.4 Conditions to avoid

Heat; 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

Acu	Acute oral toxicity						
No	Substance name	CAS	no.	EC no.			
1	1-methoxy-2-propanol	107-9	98-2	203-539-1			
LD5	0		5660	mg/kg bodyweight			
Species		rat					
		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					



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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.



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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 III
Hazard identification no. 30
UN number UN1263

Technical name PAINT RELATED MATERIAL

Special Provision 640 640E Tunnel restriction code D/E Label 3

14.2 Transport IMDG

Class 3
Packing group III
UN number UN

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 III
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: P5c



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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)

H412 Harmful to aquatic life with long lasting effects.

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

Product identifier

Trade name

edding Permanent Marker Refill Ink T25, T100, T1000, MTK25 (green) contained in: edding 2000 C

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

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

+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

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)

Aquatic Chronic 3; H412 Flam. Lig. 3; H226 Skin Sens. 1; H317 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)

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.

Label elements 22

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

Hazard pictograms







Signal word Warning



Trade name: edding Permanent Marker Refill Ink T25, T100, T1000, MTK25 (green) contained in: edding 2000

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Hazardous component(s) to be indicated on label:

1-methoxy-2-propanol

Amines, C12-14-branched alkyl, 4-[(5-cyano-1-ethyl-5,6-dihydro-2 hydroxy-4-methyl-6-oxo-3-pyridinyl)azo]-1,3-benzenedisulfonate C.I. Solvent Yellow 146

Hazard statements

H226 Flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Hazard statements (EU)

EUH208 Contains Solvent Orange 11. May produce an allergic reaction.

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)



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Hazardous ingredients

No	Substance name	Substance name //		informati	on		
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentra	tion		%	
1	1-methoxy-2-propa	nol					
	107-98-2 203-539-1 603-064-00-3	Flam. Liq. 3; H226 STOT SE 3; H336		<	80.00	%-b.w.	
2	29H,31H phthalocy	(2-ethylhexyl)oxy]propyl]amino]sulphonyl]- aninesulphonato(3-)-N-{29}-,N-{30}-,N-{31}-,N- ompound with 3-[(2-ethylhexyl)oxy]propylamine lue 70					
	94277-77-7 304-661-9 -	Aquatic Chronic 3; H412		<	10.00	%-b.w.	
3		anched alkyl, 4-[(5-cyano-1-ethyl-5,6-dihydro-2 6-oxo-3-pyridinyl)azo]-1,3-benzenedisulfonate C.I.					
	94279-65-9 304-811-3 -	Aquatic Chronic 2; H411 Eye Irrit. 2; H319 Skin Sens. 1; H317	< 5.0	00		%-b.w.	
4	Solvent Orange 11						
	61725-76-6 - - -	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Skin Sens. 1; H317	< 0.	50		%-b.w.	

Full Text for all 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 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.



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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. Wear protective clothing. Suppress gases/vapours/mists with water spray jet.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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

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.

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.



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

No	Substance name	CAS no.		EC no.	
1	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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form/Colour	
liquid	
green	

Odour	
characteristic	



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Odour threshold			
No data available			
pH value			
No data available			
Boiling point / boiling range			
Value Reference pressure	appr.	112 1013	°C hPa
		1010	m a
Melting point / melting range No data available			
Decomposition point / decomposition range			
No data available			
Flash point			
Value	appr.	30	°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	_	440	LD-
Value Reference temperature	<	110 50	kPa °C
Vapour density	•		
No data available			
Evaporation rate			
No data available			
Relative density			
No data available			
Density Value	appr	1	g/cm ³
Reference temperature	appr.	1 20	°C
Solubility in water			
No data available			
Solubility(ies)			
No data available			
Partition coefficient: n-octanol/water			
No data available			
Viscosity	T	40	
Value Reference temperature	appr.	12 20	sec °C
Type	Efflux time	_0	-
Method	DIN cup 4 mm		



Trade name: edding Permanent Marker Refill Ink T25, T100, T1000, MTK25 (green) contained in: edding 2000

Current version: 7.0.0, issued: 01.12.2015 Replaced version: 6.0.0, issued: 20.07.2015 Region: GB

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

No data available.

10.4 Conditions to avoid

Heat; 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

Acu	te oral toxicity			
No	Substance name	CAS	no.	EC no.
1	1-methoxy-2-propanol	107-9	98-2	203-539-1
LD5	0		5660	mg/kg bodyweight
Spe	cies	rat		
Sou	rce	Manufacturer		
2	Solvent Orange 11	6172	5-76-6	-
LD5	0	>	5000	mg/kg bodyweight
Spe	cies	rat		
Meth	nod	OECD 401		
Sou	rce	Manufacturer		

Acu	ite dermal toxicity			
No	Substance name	CAS no.		EC no.
1	1-methoxy-2-propanol	107-98-2		203-539-1
LD5	60		9999.99	mg/kg bodyweight
Spe	cies	rabbit		
Sou	rce	Manufacturer		
2	Solvent Orange 11	61725-76-	-6	-
LD5	60	>	2000	mg/kg bodyweight
Spe	cies	rat		
Metl	hod	OECD 402		
Sou	rce	Manufacturer		



Trade name: edding Permanent Marker Refill Ink T25, T100, T1000, MTK25 (green) contained in: edding 2000

Current version : 7.0.0, issued: 01.12.2015 Replaced version: 6.0.0, issued: 20.07.2015 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.



Current version: 7.0.0, issued: 01.12.2015 Replaced version: 6.0.0, 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.



Current version: 7.0.0, issued: 01.12.2015 Replaced version: 6.0.0, issued: 20.07.2015 Region: GB

SECTION 14: Transport information

Transport ADR/RID/ADN

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

Technical name PAINT RELATED MATERIAL

Special Provision 640 640E 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

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

Directive 2012/18/EU on the control of major-accident hazards involving dangerous s	substances
This product is subject to Part I of Annex I, risk category:	P5c



Trade name: edding Permanent Marker Refill Ink T25, T100, T1000, MTK25 (green) contained in: edding 2000

Current version : 7.0.0, issued: 01.12.2015 **Replaced version:** 6.0.0, 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)

H319 Causes serious eye irritation. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

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: 7.0.0, issued: 01.12.2015 Replaced version: 6.0.0, issued: 20.07.2015 Region: GB

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

1.1 Product identifier

Trade name

edding Permanent Marker Refill Ink T25, T100, T1000, MTK25 (red) contained in: edding 2000 C

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)

Aquatic Chronic 2; H411 Eye Dam. 1; H318 Flam. Liq. 3; H226

STOT SE 3; H336

2.2 Label elements

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

Hazard pictograms



GHS02



GHS05



GHS07



GHS09

Signal word

Danger

H411

Hazardous component(s) to be indicated on label:

1-methoxy-2-propanol

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7 dimethylxanthylium ethyl sulphate

Hazard statements

H226 Flammable liquid and vapour.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.

Toxic to aquatic life with long lasting effects.



Trade name: edding Permanent Marker Refill Ink T25, T100, T1000, MTK25 (red) contained in: edding 2000 C

Current version: 7.0.0, issued: 01.12.2015 Replaced version: 6.0.0, issued: 20.07.2015 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.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

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	Flam. Liq. 3; H226	< 80.00	%-b.w.
	203-539-1	STOT SE 3; H336		
	603-064-00-3			
	-			
2		yl)phenyl]-3,6-bis(ethylamino)-2,7		
	dimethylxanthyliun	n ethyl sulphate		
	26694-69-9	Acute Tox. 4; H302	< 5.00	%-b.w.
	247-906-4	Aquatic Acute 1; H400		
	-	Eye Dam. 1; H318		
	-	Aquatic Chronic 1; H410		

Full Text for all 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

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



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After ingestion

Rinse mouth thoroughly with water. Call a doctor immediately. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

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. Wear protective clothing. Suppress gases/vapours/mists with water spray jet.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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

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.



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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) / 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.



Current version: 7.0.0, issued: 01.12.2015 Replaced version: 6.0.0, issued: 20.07.2015 Region: GB

SECTION 9: Physical and chemical properties

9.1	Information on	basic ph	vsical and	chemical	properties
-----	----------------	----------	------------	----------	------------

F	orm/Colour	•		
	quid			
	ed			
0	Odour			
cl	haracteristic			
O	Odour threshold			
	lo data available			
р	H value			
	'alue	appr.	5.7	
B	soiling point / boiling range			
\ \	alue	appr.	111	°C
R	deference pressure		1013	hPa
M	lelting point / melting range			
Ν	lo data available			
D	ecomposition point / decomposition range			
Ν	lo data available			
F	lash point			
	alue alue	appr.	32	°C
Α	uto-ignition temperature			
	lo data available			
0	oxidising properties			
	lo data available			
E	xplosive properties			
	lo data available			
F	lammability (solid, gas)			
N	lo data available			
L	ower flammability or explosive limits			
	lo data available			
U	pper flammability or explosive limits			
Ν	lo data available			
V	apour pressure			
V	'alue	<	110	kPa
R	Leference temperature		50	°C
	apour density			
Ν	lo data available			
E	vaporation rate			
Ν	lo data available			
R	elative density			
N	lo data available			
	ensity			
V	alue alue	appr.	0.968	g/cm ³
R	Leference 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

Viscosity			
Value	appr.	12	sec
Reference temperature		20	°C
Туре	Efflux time		
Method	DIN 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

Possible hydrogen formation upon contact with acids.

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	ite oral toxicity (result of the ATE calculation for the mixture)					
No	Product Name					
1	edding Permanent Marker Refill Ink T25, T100,					
	T1000, MTK25 (red) contained in: edding 2000 C					
Rem	narks	The result of the applied calculation method according to the				
		European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6,				
		Part 3 of Annex I is outside the values that imply a classification /				
		labelling of this mixture according to table 3.1.1 defining the				
		respective categories (ATE oral > 2000 mg/kg).				

Acu	te oral toxicity			
No	Substance name	CAS n	0.	EC no.
1	1-methoxy-2-propanol	107-98	3-2	203-539-1
LD5	0		5660	mg/kg bodyweight
		rat		
Source		Manufacturer		



Trade name: edding Permanent Marker Refill Ink T25, T100, T1000, MTK25 (red) contained in: edding 2000 C

Current version: 7.0.0, issued: 01.12.2015 Region: GB Replaced version: 6.0.0, issued: 20.07.2015

Acu	Acute dermal toxicity					
No	Substance name	CAS	S no.	EC no.		
1	1-methoxy-2-propanol	107	-98-2	203-539-1		
LD5	0		9999.99	mg/kg bodyweight		
Spec	cies	rabbit				
Source		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: 7.0.0, issued: 01.12.2015 Replaced version: 6.0.0, 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.



Trade name: edding Permanent Marker Refill Ink T25, T100, T1000, MTK25 (red) contained in: edding 2000 C

Current version: 7.0.0, issued: 01.12.2015 Replaced version: 6.0.0, issued: 20.07.2015 Region: GB

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

Class 3
Classification code F1
Packing group III
Hazard identification no. 30
UN number UN1263

Technical name PAINT RELATED MATERIAL

Special Provision 640 640E Tunnel restriction code D/E Label 3

Environmentally hazardous Symbol "fish and tree"

substance mark

14.2 Transport IMDG

Class 3
Packing group III
UN number UN1263

Proper shipping name PAINT RELATED MATERIAL

Danger releasing substance 9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7 dimethylxanthylium ethyl

sulphate

EmS F-E+S-E

Label 3

Marine pollutant mark Symbol "fish and tree"

14.3 Transport ICAO-TI / IATA

Class 3
Packing group III
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



Current version: 7.0.0, issued: 01.12.2015 Replaced version: 6.0.0, issued: 20.07.2015 Region: GB

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 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:

If the properties of the substance/product give rise to more than one classification, for the purposes of 2012/18/UE, the lowest qualifying quantities set out in Part 1 and Part 2 of Annex I shall apply.

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)

H302 Harmful if swallowed. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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:

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Current version: 7.1.0, issued: 23.11.2015 Replaced version: 7.0.0, issued: 20.07.2015 Region: GB

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

Product identifier

Trade name

edding Permanent Marker Refill Ink T25, T100, T1000, MTK25 (black) contained in: edding 2000 C

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

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

+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

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

<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



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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		Additio	onal info	rmatior	า	
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Conce	ntration			%
	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. re	fer to foo	tnote (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

⁽¹⁾ Aberrant from/in addition to the classification set out in Annex VI, this substance is classified according to European Regulation (EC) No 1272/2008 (CLP), Article 4 (3), paragraph 2.

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
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) / 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.



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Other

Normal chemical work clothing.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

9.	1 Information on basic physical and che	emical properties	3	
	Form/Colour			
	liquid			
	black			
	Odour			
	characteristic			
	Odour threshold			
	No data available			
	pH value			
	Value	appr.	4	
		таррі.	<u> </u>	
	Boiling point / boiling range	1	7.5	20
	Value Reference pressure	appr.	75 1013	°C hPa
			1013	III a
	Melting point / melting range			
	No data available			
	Decomposition point / decomposition range			
	No data available			
	Flash point			
	Value	appr.	18	°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 °C
	Reference temperature		50	U



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Vapour density				
No data available				
Evaporation rate				
No data available				
Relative density				
No data available				
Density				
Value Reference temperature	appr.	0.928 20	g/cm³ °C	
·		20	6	
Solubility in water				
No data available				
Solubility(ies)				
No data available				
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			
LD50			5660	mg/kg bodyweight			
Species		rat					
Source		Manufacturer					



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Acute dermal toxicity						
No	Substance name	CAS no.		EC no.		
1	1-methoxy-2-propanol	107-98-2		203-539-1		
LD50			9999.99	mg/kg bodyweight		
Species		rabbit				
Source		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.



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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

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

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

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			



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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

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