24547-1019

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: Marabu Aqua Pen MaKeManga Schwarz

Version: 2/GB

Replaces Version: 1 / GB

Substance number: 014500101-01

Date revised: 03.03.201

Print date: 17.03.17

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

1.1. Product identifier

Marabu Aqua Pen MaKeManga Schwarz

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

Use of the substance/preparation

Paint

Identified Uses

SU21 PC9a Consumer uses: Private households (= general public = consumers)

Coatings and paints, thinners, paint removers

1.3. Details of the supplier of the safety data sheet

Marabu GmbH & Co. KG Asperger Strasse 4 71732 Tamm Germany

Telephone no. Fax no.

+49-7141/691-0 +49-7141/691-147

Information provided Department product safety by / telephone E-mail address of

person responsible

for this SDS

PRSI@marabu.de

1.4. Emergency telephone number

(+49) (0)621-60-43333

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

Labelling according to regulation (EC) No 1272/2008

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

EUH208 Contains

A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1), May

produce an allergic reaction.

Supplemental information

Labelling according to regulation (EU) No 528/2012 ***

Contains a biocidal product: A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1)

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients ***

3.2. Mixtures

ade name: Marabu Aqua F		Version	2 / GB	n: 1/GB		Date revised: 03.03.2017 Print date: 17.03.17
Chemical character					·	
Paint based on water						
Hazardous ingredie	nts					
Ethanediol						
CAS No.	107-21-1					
EINECS no.	203-473-3	146 20				
Registration no. Concentration	01-21194568 >=	1	<	10	%	
					,,	
Classification (Regu			LISOS			
	Acute Tox. 4 STOT RE 2		H302 H373			
	SIUIREZ		11373			
Bronopol (INN)						
CAS No.	52-51-7					
EINECS no.	200-143-0					
Concentration	>=	0,01	<	0,1	%	
Classification (Regu	dation (EC) No	1272/2008	1			
Classification (1 (cgc	Eye Dam. 1		H318			
	Skin Irrit. 2		H315			
	STOT SE 3		H335			
	Acute Tox. 4		H302			
	Acute Tox. 4		H312			
	Aquatic Acut		H400			
	Aquatic Chro	nic 1	H410			
Concentration limits	(Regulation (EC	C) No. 127	2/2008)			
0000	Aquatic Acut	é 1 H4	00 M:	= 10		
	Aquatic Chro	onic H4	10 M :	= 1		
	1					
A mixture of: 5-Chlo	ro-2-methyl-2h	-isothiazo	-3-one [i	EC-no. 247	7-500-7] ai	nd
2-Methyl-2H-isothia	ol-3-one (EC-n 55965-84-9	0. 220-239	-6] (3:1)	/ C(NI)II/M	11 (3:1)	
CAS No. Concentration	22902-04-9		<	0.0015	%	
Concentiation			-	0,00.0		
Classification (Regu	ulation (EC) No.	1272/2008)			
	Acute Tox. 3	3	H331			
	Aquatic Chro		H410			
	Aquatic Acu		H400			
	Skin Sens. 1		H317			
	Skin Corr. 1	_	H314			
	Acute Tox. 3 Acute Tox. 3		H311 H301			
Concentration limits	(Regulation (E	C) No. 127	2/2008)	.06		
	Skin Corr. 1 Eye Irrit. 2	В Н3 Н3		: 0,6 : 0,06 < 0,6		
	Skin Irrit. 2	H3		0.06 < 0.6		
	Skin Sens.			0,0015		
Further ingredients						
Glycerol	-					
CAS No.	56-81-5					
EINECS no.	200-289-5					
Concentration	>=	10	<	25	%	[3]

Trade name: Marabu Aqua Pen MaKeManga Schwarz

Version: 2/GB

Substance number: 014500101-01 Replaces Version: 1 / GB

Date revised: 03.03.2017

Print date: 17.03.17

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[3] Substance with occupational exposure limits

SECTION 4: First aid measures

4.1. Description of first aid measures

After skin contact

Wash with plenty of water and soap. Do NOT use solvents or thinners.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an oculist.

After ingestion

Rinse mouth thoroughly with water. If larger amounts are swallowed or in the event of symptoms take medical treatment.

4.2. Most important symptoms and effects, both acute and delayed

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, Foam, Sand, Water

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No particular measures required.

6.2. Environmental precautions

No particular measures required.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

Trade name: Marabu Aqua Pen MaKeManga Schwarz

Version: 2 / GB

Replaces Version: 1 / GB

Date revised: 03.03.2017

Print date: 17.03.17

7.1. Precautions for safe handling

Advice on safe handling

Substance number: 014500101-01

Avoid skin and eye contact. Smoking, eating and drinking shall be prohibited in application area.

Advice on protection against fire and explosion

No special measures required.

Classification of fires / temperature class / Ignition group / Dust explosion class

Temperature class T2

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in frostfree conditions.

Storage class according to TRGS 510

Storage class according to 12 Non-combustible liquids

TRGS 510

7.3. Specific end use(s)

Paint

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Ethanediol

List EH40 Type WEL

Value 10 mg/m³ Skin resorption / sensibilisation: Sk; Status: 2011

Glycerol

List EH40 Type WEL

Value 10 mg/m³

Status: 2011

Other information

There are not known any further control parameters.

Derived No/Minimal Effect Levels (DNEL/DMEL)

Ethanediol

Type of value Derived No Effect Level (DNEL)

Reference group
Duration of exposure
Route of exposure
Mode of action
Concentration
Worker
Long term
inhalative
Local effects

Concentration 35 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Worker

Long term

dermal

Systemic effects

Concentration 106

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

mg/kg

Trade name: Marabu Aqua Pen MaKeManga Schwarz

Version: 2/GB

Substance number: 014500101-01 Replaces Version: 1 / GB

Date revised: 03.03.2017

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Duration of exposure
Route of exposure
Mode of action
Concentration

Long term inhalative Local effects

Type of value Derived No Effect Level (DNEL)
Reference group Consumer
Duration of exposure Long term
Route of exposure dermal
Mode of action Systemic effects

Concentration 53

mg/kg

mg/m³

Predicted No Effect Concentration (PNEC)

Ethanediol

Type of value Type Concentration PNEC Freshwater 10

mg/l

Type of value Type Concentration

Concentration

PNEC Saltwater

mg/l

Type of value Type

PNEC

Water (intermittent release)

10

Type of value PNEC

Type Concentration Sewage treatment plant (STP)

199,5

mg/l

mg/l

Type of value

Type Concentration PNEC Freshwater sediment

37

mg/kg

Type of value

Type Concentration Marine sediment

3,7

mg/kg

mg/kg

Type of value Type PNEC Soil

PNEC

Concentration 1,53

8.2. Exposure controls

Exposure controls

Provide adequate ventilation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form liquid
Colour coloured
Odour odourless

Odour threshold

Remarks No data available

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Melting point

Remarks not determined

Freezing point

Remarks not determined

Initial boiling point and boiling range

Value appr. 100 °C

Pressure 1.013 hPa Source Literature value

Flash point

Remarks Not applicable

Evaporation rate (ether = 1):

Remarks not determined

Flammability (solid, gas)

Not applicable

Upper/lower flammability or explosive limits

Lower explosion limit appr. 3,2 %(V)
Upper explosion limit appr. 53 %(V)

Source Literature value

Vapour pressure

Value appr. 23 hPa

Temperature 20 °C

Method Value taken from the literature

Vapour density

Remarks not determined

Density

Remarks not determined

Solubility in water

Remarks miscible

Ignition temperature

Value appr. 410 °C Source Literature value

Viscosity Remarks

Remarks not determined

9.2. Other information

Other information

None known

SECTION 10: Stability and reactivity

10.1. Reactivity

None

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

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No hazardous reactions known.

10.5. Incompatible materials

None

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

Remarks Based on available data, the classification criteria are not met.

Acute dermal toxicity

Remarks Based on available data, the classification criteria are not met.

Acute inhalational toxicity

Remarks Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Remarks Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Remarks Based on available data, the classification criteria are not met.

Sensitization

Remarks Based on available data, the classification criteria are not met.

Mutagenicity

Remarks Based on available data, the classification criteria are not met.

Reproductive toxicity

Remarks Based on available data, the classification criteria are not met.

Carcinogenicity

Remarks Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (STOT)

Single exposure

Remarks Based on available data, the classification criteria are not met.

Repeated exposure

Remarks Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Experience in practice

Provided all the recommended protective and safety precautions are taken, experience shows that no risk to health can be expected.

Other information

There are no data available on the mixture itself.

The mixture has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and not classified.

SECTION 12: Ecological information

12.1. Toxicity

General information

There are no data available on the mixture itself.Do not allow to enter drains or water courses.The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008

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Trade name: Marabu Aqua Pen MaKeManga Schwarz

Version: 2 / GB

Replaces Version: 1 / GB Substance number: 014500101-01

and is not classified as dangerous for the environment.

12.2. Persistence and degradability

General information

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

General information

There are no data available on the mixture itself.

12.4. Mobility in soil

General information

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

General information

There are no data available on the mixture itself.

12.6. Other adverse effects

General information

There are no data available on the mixture itself.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

The product can be placed with other household refuse. Small residues in containers can be washed-out with water and put into the drainage system.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off as product waste.

Completely emptied packagings can be given for recycling.

SECTION 14: Transport information

Land transport ADR/RID

Non-dangerous goods

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

Class

14.4. Packing group

Packing group

Transport category

14.5. Environmental hazards

Marine transport IMDG/GGVSee

The product does not constitute a hazardous substance in sea transport.

14.1. UN number

UN-

14.2. UN proper shipping name

Trade name: Marabu Aqua Pen MaKeManga Schwarz

Version: 2 / GB

Substance number: 014500101-01 Replaces Version: 1 / GB

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14.3. Transport hazard class(es)

Class
Subsidiary risk

14.4. Packing group
Packing group

14.5. Environmental hazards

no

Air transport ICAO/IATA

The product does not constitute a hazardous substance in air transport.

14.1. UN number

UN-

14.2. UN proper shipping name

14.3. Transport hazard class(es)

Class
Subsidiary risk

14.4. Packing group
Packing group

14.5. Environmental hazards

Information for all modes of transport

14.6. Special precautions for user

Transport within the user's premises:

Always transport in closed containers that are upright and secure.

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code no

SECTION 15: Regulatory information ***

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

VOC ***

VOC (EU) 0 %

Other information

All components are contained in the TSCA inventory or exempted. All components are contained in the AICS inventory.

All components are contained in the PICCS inventory. All components are contained in the DSL inventory. All components are contained in the IECSC inventory. All components are contained in the NZIOC inventory.

All components are contained in the ENCS inventory.

All components are contained in the ECL inventory.

15.2. Chemical safety assessment

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

SECTION 16: Other information

Hazard statements listed in Chapter 3

H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin.

Safety data sheet ii	n accordance wit	n regulation (EC) No 1907/2006	
_			\mathbf{M}
Trade name: Marab	u Aqua Pen Make	Version: 2 / GB	Marabu Date revised: 03.03.2017
Substance number:	014500101-01	Replaces Version: 1 / GB	Print date: 17.03.17
H312		Harmful in contact with skin.	
H314		Causes severe skin burns and eye d	lamage.
H315		Causes skin irritation.	
H317		May cause an allergic skin reaction.	
H318		Causes serious eye damage.	
H331		Toxic if inhaled.	
H335		May cause respiratory irritation.	
H373		May cause damage to organs throug	gh prolonged or repeated exposure.
H400		Very toxic to aquatic life.	
H410		Very toxic to aquatic life with long la	sting effects.
CLP catego	ries listed in Ch	apter 3	
Acute Tox		Acute toxicity, Category 3	
Acute Tox		Acute toxicity, Category 4	
710010 147	• •	the state of the s	Cotogoni 1

Acute toxicity, Category 3
Acute toxicity, Category 4
Hazardous to the aquatic environment, acute, Category 1
Hazardous to the aquatic environment, chronic, Category 1
Serious eye damage, Category 1
Skin corrosion, Category 1B
Skin irritation, Category 2
Skin sensitization, Category 1
Specific target organ toxicity - repeated exposure, Category 2
Specific target organ toxicity - single exposure, Category 3

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: *** This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship. The information in this Safety Data Sheet is based on the present state of knowledge and current legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.

Trade name: Marabu Aqua Pen MaKeManga Hautfarbe

Version: 2/GB

Substance number: 014500101-02 Replaces Version: 1 / GB

Date revised: 03.03.2017 Print date: 17.03.17

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

1.1. Product identifier

Marabu Aqua Pen MaKeManga Hautfarbe

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

Use of the substance/preparation

Paint

Identified Uses

SU21 Consumer uses: Private households (= general public = consumers)

PC9a Coatings and paints, thinners, paint removers

1.3. Details of the supplier of the safety data sheet

Address

Marabu GmbH & Co. KG Asperger Strasse 4 71732 Tamm Germany

Telephone no. +49-7141/691-0 Fax no. +49-7141/691-147

Information provided by / telephone

Department product safety PRSI@marabu.de

E-mail address of person responsible

for this SDS

1.4. Emergency telephone number

(+49) (0)621-60-43333

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

EUH208 Contains A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and

2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1), May

produce an allergic reaction.

Supplemental information

Labelling according to regulation (EU) No 528/2012 ***

Contains a biocidal product: A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1)

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients ***

3.2. Mixtures

Safety data sheet in accordar rade name: Marabu Aqua P		Hautfarbe		/2006		Data sasianada	02.02.00
			2 / GB	: 1/GB		Date revised:	03.03.2017 te: 17.03.17
Substance number: 014500	101-02	Керіасе		i. 17GB	_		
Chemical characteri	zation						
Paint based on wate	r						
Hazardous ingredie	nts						
Ethanediol							
CAS No.	107-21-1						
EINECS no.	203-473-3	140.00					
Registration no.	01-21194568 >=		<	10	%		
Concentration	>=	1		10	70		
Classification (Regu							
	Acute Tox. 4		H302				
	STOT RE 2		H373				
Bronopol (INN)							
CAS No.	52-51-7						
EINECS no.	200-143-0						
Concentration	>=	0,01	<	0,1	%		
Classification (Boss	leties (EC) No. (1272/2000					
Classification (Regu	Eve Dam. 1	121212000)	H318				
	Skin Irrit. 2		H315				
	STOT SE 3		H335				
	Acute Tox. 4		H302				
	Acute Tox. 4		H312				
	Aquatic Acut	e 1	H400				
	Aquatic Chro	nic 1	H410				
Concentration limits	(Regulation (EC) No. 1272	/2008)				
	Aquatic Acut	é 1 H40		10			
	Aquatic Chro		0 M=	: 1			
	1						
A mixture of: 5-Chlor 2-Methyl-2H-isothiaz	ro-2-methyl-2h- ol-3-one IEC-ne	isothiazol- o. 220-239-	3-one [E 61 (3:1) /	C-no. 247 C(M)IT/M	'-500-7] and IT (3:1)	I	
CAS No.	55965-84-9		(` '		
Concentration			<	0,0015	%		
Classification (Regu	lation (EC) No. :	1272 <i>1</i> 2008\					
Classification (Regu	Acute Tox. 3		H331				
	Aquatic Chro		H410				
	Aquatic Acut		H400				
	Skin Sens. 1	-	H317				
	Skin Corr. 1E	3	H314				
	Acute Tox. 3		H311				
	Acute Tox. 3		H301				
Concentration limits	(Regulation (EC	C) No. 1272	/2008)				
	Skin Corr. 18			0,6			
	Eye Irrit. 2	H31		0,06 < 0,6			
	Skin Irrit. 2	H31	-	0,06 < 0,6			
	Skin Sens. 1	H31	/ >=	0,0015			
Further ingredients	###						
Glycerol							
CAS No.	56-81-5						
EINECS no. Concentration	200-289-5 >=	10	<	25	%	[3]	
Concelliation			-		••	1-1	

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Trade name: Marabu Aqua Pen MaKeManga Hautfarbe

Version: 2 / GB

Substance number: 014500101-02

Replaces Version: 1 / GB

Date revised: 03.03.2017

Print date: 17.03.17

*

[3] Substance with occupational exposure limits

SECTION 4: First aid measures

4.1. Description of first aid measures

After skin contact

Wash with plenty of water and soap. Do NOT use solvents or thinners.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an oculist.

After ingestion

Rinse mouth thoroughly with water. If larger amounts are swallowed or in the event of symptoms take medical treatment.

4.2. Most important symptoms and effects, both acute and delayed

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, Foam, Sand, Water

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No particular measures required.

6.2. Environmental precautions

No particular measures required.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

Date revised: 03.03.201

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: Marabu Aqua Pen MaKeManga Hautfarbe

Version: 2/GB

Print date: 17.03.17 Substance number: 014500101-02 Replaces Version: 1 / GB

7.1. Precautions for safe handling

Advice on safe handling

Avoid skin and eye contact. Smoking, eating and drinking shall be prohibited in application area.

Advice on protection against fire and explosion

No special measures required.

Classification of fires / temperature class / Ignition group / Dust explosion class

Temperature class

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in frostfree conditions.

Storage class according to TRGS 510

Storage class according to 12 Non-combustible liquids

TRGS 510

7.3. Specific end use(s)

Paint

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Ethanediol

List **EH40** WEL Type

Value 10 mg/m³ Skin resorption / sensibilisation: Sk; Status: 2011

Glycerol

EH40 List Type WEL

Value 10 mg/m³

Status: 2011

Other information

There are not known any further control parameters.

Derived No/Minimal Effect Levels (DNEL/DMEL)

Ethanediol

Type of value Derived No Effect Level (DNEL)

Reference group Worker **Duration of exposure** Long term Route of exposure inhalative Mode of action Local effects Concentration 35

mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Worker Long term **Duration of exposure** Route of exposure dermal Mode of action Systemic effects

Concentration 106

mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Trade name: Marabu Aqua Pen MaKeManga Hautfarbe

Version: 2/GB

Substance number: 014500101-02

Replaces Version: 1/GB

Date revised: 03.03.2017

Print date: 17.03.17

Duration of exposure Route of exposure Mode of action Concentration

Long term inhalative Local effects

mg/m³

Type of value Reference group **Duration of exposure**

Derived No Effect Level (DNEL) Consumer Long term dermal Route of exposure Systemic effects

Mode of action Concentration

mg/kg

Predicted No Effect Concentration (PNEC)

Ethanediol

Type of value Type Concentration **PNFC** Freshwater

mg/l

Type of value Type Concentration PNEC Saltwater

mg/l

Type of value

PNEC

Water (intermittent release)

mg/l

Concentration Type of value

Type Concentration **PNEC** Sewage treatment plant (STP)

199,5

mg/l

Type of value

Type

Type

PNEC Freshwater sediment

37

mg/kg

Concentration Type of value

Type Concentration

PNEC Marine sediment

3,7

mg/kg

Type of value Type

PNEC Soil

Concentration

1,53

mg/kg

8.2. Exposure controls

Exposure controls

Provide adequate ventilation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties **Form** biupil

Colour coloured Odour odourless

Odour threshold

Remarks No data available

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Substance number: 014500101-02

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: Marabu Aqua Pen MaKeManga Hautfarbe

Version: 2 / GB

Replaces Version: 1 / GB

Date revised: 03.03.2017 Print date: 17.03.17

Melting point

Remarks not determined

Freezing point

Remarks not determined

Initial boiling point and boiling range

Value appr. 100 °C Pressure 1.013 hPa

Pressure 1.013
Source Literature value

Flash point

Remarks Not applicable

Evaporation rate (ether = 1):

Remarks not determined

Flammability (solid, gas)

Not applicable

Upper/lower flammability or explosive limits

Lower explosion limit appr. 3,2 %(V)
Upper explosion limit appr. 53 %(V)

Literature value

Source

Vapour pressure

Value appr. 23 hPa

Temperature 20 °C

Method Value taken from the literature

Vapour density

Remarks not determined

Density

Remarks not determined

Solubility in water

Remarks miscible

Ignition temperature

Value appr. 410 °C

Source Literature value

Viscosity

Remarks

Remarks not determined

9.2. Other information

Other information

None known

SECTION 10: Stability and reactivity

10.1. Reactivity

None

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Trade name: Marabu Aqua Pen MaKeManga Hautfarbe

Version: 2/GB

Substance number: 014500101-02 Replaces Version: 1 / GB

Date revised: 03.03.2017

Print date: 17.03.17

No hazardous reactions known.

10.5. Incompatible materials

None

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

Remarks Based on available data, the classification criteria are not met.

Acute dermal toxicity

Remarks Based on available data, the classification criteria are not met.

Acute inhalational toxicity

Remarks Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Remarks Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Remarks Based on available data, the classification criteria are not met.

Sensitization

Remarks Based on available data, the classification criteria are not met.

Mutagenicity

Remarks Based on available data, the classification criteria are not met.

Reproductive toxicity

Remarks Based on available data, the classification criteria are not met.

Carcinogenicity

Remarks Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (STOT)

Single exposure

Remarks Based on available data, the classification criteria are not met.

Repeated exposure

Remarks Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Experience in practice

Provided all the recommended protective and safety precautions are taken, experience shows that no risk to health can be expected.

Other information

There are no data available on the mixture itself.

The mixture has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and not classified.

SECTION 12: Ecological information

12.1. Toxicity

General information

There are no data available on the mixture itself.Do not allow to enter drains or water courses.The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008

Trade name: Marabu Aqua Pen MaKeManga Hautfarbe

Version: 2/GB

Replaces Version: 1 / GB

Date revised: 03.03.201 Print date: 17.03.17

and is not classified as dangerous for the environment.

12.2. Persistence and degradability

General information

Substance number: 014500101-02

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

General information

There are no data available on the mixture itself.

12.4. Mobility in soil

General information

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

General information

There are no data available on the mixture itself.

12.6. Other adverse effects

General information

There are no data available on the mixture itself.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

The product can be placed with other household refuse. Small residues in containers can be washed-out with water and put into the drainage system.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off as product waste.

Completely emptied packagings can be given for recycling.

SECTION 14: Transport information

Land transport ADR/RID

Non-dangerous goods

14.1. UN number

UN-

14.2. UN proper shipping name

14.3. Transport hazard class(es)

Class

Label 14.4. Packing group

Packing group

Transport category

14.5. Environmental hazards

Marine transport IMDG/GGVSee The product does not constitute a hazardous substance in sea transport.

0

14.1. UN number

UN.

14.2. UN proper shipping name

Date revised: 03.03.2017

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: Marabu Aqua Pen MaKeManga Hautfarbe

Version: 2 / GB

Replaces Version: 1 / GB Print date: 17.03.17

14.3. Transport hazard class(es)

Subsidiary risk

14.4. Packing group

Substance number: 014500101-02

Packing group

14.5. Environmental hazards

no

Air transport ICAO/IATA

The product does not constitute a hazardous substance in air transport.

14.1. UN number

UN -

14.2. UN proper shipping name

14.3. Transport hazard class(es)

Class Subsidiary risk

14.4. Packing group Packing group

14.5. Environmental hazards

Information for all modes of transport

14.6. Special precautions for user

Transport within the user's premises:

Always transport in closed containers that are upright and secure.

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code no

SECTION 15: Regulatory information ***

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

VOC ***

VOC (EU)

%

Other information

All components are contained in the TSCA inventory or exempted.

All components are contained in the AICS inventory.

All components are contained in the PICCS inventory.

All components are contained in the DSL inventory.

All components are contained in the IECSC inventory.

All components are contained in the NZIOC inventory. All components are contained in the ENCS inventory.

All components are contained in the ECL inventory.

15.2. Chemical safety assessment

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

O

SECTION 16: Other information

Hazard statements listed in Chapter 3

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.

Trade name: Marabu Aqua Pen MaKeManga Hautfarbe

Version: 2 / GB Date revised: 03.03.201

Substance number:	014500101-02	Replaces Version: 17	GB	Print date: 17.03.17
H312		Harmful in contact with skin.		
H314		Causes severe skin burns and e	ye damage.	
11045		Oncorn alsia imitation		

11012	Hattiidi iii oolitaat waa saat.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure:
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Eye Dam. 1	Serious eye damage, Category 1
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 3
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.
The information in this Safety Data Sheet is based on the present state of knowledge and current legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.

Trade пате: Marabu Aqua Pen MaKeManga Rosa

Version: 2/GB

Substance number: 014500101-03 Replaces Version: 1 / GB Date revised: 03.03.2017

Print date: 17.03.17

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

1.1. Product identifier

Marabu Aqua Pen MaKeManga Rosa

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

Use of the substance/preparation

Paint

Identified Uses

SU21

Consumer uses: Private households (= general public = consumers)

PC9a Coatings and paints, thinners, paint removers

1.3. Details of the supplier of the safety data sheet

Address

Marabu GmbH & Co. KG Asperger Strasse 4 71732 Tamm Germany

Telephone no. Fax no.

+49-7141/691-147 Information provided Department product safety

by / telephone E-mail address of

PRSI@marabu.de

+49-7141/691-0

person responsible for this SDS

1.4. Emergency telephone number

(+49) (0)621-60-43333

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

EUH208 Contains

A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1), May

produce an allergic reaction.

Supplemental information

Labelling according to regulation (EU) No 528/2012 ***

Contains a biocidal product: A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1)

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients ***

3.2. Mixtures

Safety data sheet in accordan	ce with regula	tion (EC) N	lo 1907	/2006			
Trade name: Marabu Aqua Per	MaKeManga F		0.400			Date revised:	Marabu 03 03 2017
Substance number: 01450010	1-03	Version: Replaces		: 1/GB			ate: 17.03.17
Chemical characteriza	ition						
Paint based on water							
Hazardous ingredient	S						
Ethanediol							
CAS No.	107-21-1						
EINECS no.	203-473-3 01-211945681	6-28					
Registration no. Concentration	>=	1	<	10	%		
Classification (Regulation	ion (EC) No. 12	272/2008)	11000				
	Acute Tox. 4 STOT RE 2		H302 H373				
	SIOIREZ		11373				
Bronopol (INN)							
CAS No.	52-51-7						
EINECS no.	200-143-0				0/		
Concentration	>=	0,01	<	0,1	%		
Classification (Regula	tion (EC) No. 1	272/2008)					
Classification (regula	Eye Dam. 1	,	H318				
	Skin Irrit. 2		H315				
	STOT SE 3		H335				
	Acute Tox. 4		H302 H312				
	Acute Tox. 4 Aquatic Acute	. 1	H400				
	Aquatic Chror		H410				
		4070					
Concentration limits (l	Regulation (EC) Aquatic Acute	No. 12 <i>12</i> 1 H400	2008) N M =	= 10			
	Aquatic Acute						
	1						
A mixture of: 5-Chloro 2-Methyl-2H-isothiazo	l-3-one [EC-no	sothiazol- . 220-239-	3-one [E 6] (3:1)	EC-no. 247 / C(M)IT/MI	-500-7] and T (3:1)		
CAS No. Concentration	55965-84-9		<	0.0015	%		
-				-,			
Classification (Regula	ition (EC) No. 1	272/2008)	11004				
	Acute Tox. 3	-i- 1	H331 H410				
	Aquatic Chron Aquatic Acute		H400				
1	Skin Sens. 1	•	H317				
	Skin Corr. 1B		H314				
<u> </u>	Acute Tox. 3		H311				
	Acute Tox. 3		H301				
Concentration limits (Regulation (EC) No. 1272	/2008)				
	Skin Corr. 1B	H31	4 >=	0,6			
	Eye Irrit. 2	H319	-	0,06 < 0,6			
1	Skin Irrit. 2	H31:	-	0,06 < 0,6 0,0015			
	Skin Sens. 1	H31	,	0,0010			
Further ingredients *							
Glycerol	56.91 5						
CAS No. EINECS no.	56-81-5 200-289-5						
Concentration	>=	10	<	25	%	[3]	

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Item Numbers: 24547-1019

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Trade name: Marabu Aqua Pen MaKeManga Rosa

Version: 2/GB

Substance number: 014500101-03 Replaces Version: 1 / GB

Date revised: 03.03.2017

Print date: 17.03.17

•

[3] Substance with occupational exposure limits

SECTION 4: First aid measures

4.1. Description of first aid measures

After skin contact

Wash with plenty of water and soap. Do NOT use solvents or thinners.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an oculist.

After ingestion

Rinse mouth thoroughly with water. If larger amounts are swallowed or in the event of symptoms take medical treatment.

4.2. Most important symptoms and effects, both acute and delayed

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, Foarn, Sand, Water

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No particular measures required.

6.2. Environmental precautions

No particular measures required.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

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Trade name: Marabu Aqua Pen MaKeManga Rosa

Version: 2 / GB

Replaces Version: 1 / GB

Date revised: 03.03.2017

Print date: 17.03.17

7.1. Precautions for safe handling

Advice on safe handling

Substance number: 014500101-03

Avoid skin and eye contact. Smoking, eating and drinking shall be prohibited in application area.

Advice on protection against fire and explosion

No special measures required.

Classification of fires / temperature class / Ignition group / Dust explosion class

Temperature class T2

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in frostfree conditions.

Storage class according to TRGS 510

Storage class according to 12 Non-combustible liquids

TRGS 510

7.3. Specific end use(s)

Paint

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Ethanediol

List EH40 Type WEL

Value 10 mg/m³ Skin resorption / sensibilisation: Sk; Status: 2011

Glycerol

List EH40 Type WEL

Value 10 mg/m³

Status: 2011

Other information

There are not known any further control parameters.

Derived No/Minimal Effect Levels (DNEL/DMEL)

Ethanediol

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Local effects

25

Concentration 35 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Worker

Long term

dermal

Systemic effects

Mode of action Systemic effects
Concentration 106 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

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Trade name: Marabu Aqua Pen MaKeManga Rosa

Version: 2 / GB

Replaces Version: 1 / GB

Date revised: 03.03.2017

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Duration of exposure Route of exposure Mode of action Concentration Long term inhalative Local effects

mg/m³

Type of value Reference group Duration of exposure Route of exposure

Substance number: 014500101-03

Derived No Effect Level (DNEL)
Consumer
Long term
dermal

Systemic effects

Concentration 53

mg/kg

Predicted No Effect Concentration (PNEC)

Ethanediol

Type of value Type Concentration

Mode of action

PNEC Freshwater 10

mg/l

Type of value Type Concentration PNEC Saltwater

mg/l

Type of value

PNEC

Water (intermittent release)

mg/l

Concentration

Type of value

Type Concentration

Type

PNEC Sewage treatment plant (STP)

199,5

mg/l

Type of value

Type Concentration PNEC Freshwater sediment

hwater sediment 37

mg/kg

Type of value

Type Concentration PNEC Marine sediment

3.7

mg/kg

Type of value Type PNEC Soil

Concentration 1,53

mg/kg

8.2. Exposure controls

Exposure controls

Provide adequate ventilation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form liquid
Colour coloured
Odour odourless

Odour threshold

Remarks No data available

Trade name: Marabu Aqua Pen MaKeManga Rosa

Version: 2 / GB

Replaces Version: 1 / GB

Date revised: 03.03.2017 Print date: 17.03.17

Melting point

Substance number: 014500101-03

Remarks not determined

Freezing point

Remarks not determined

Initial boiling point and boiling range

Value appr. 100 °C
Pressure 1.013 hPa

Pressure 1.013
Source Literature value

Flash point

Remarks Not applicable

Evaporation rate (ether = 1):

Remarks not determined

Flammability (solid, gas)

Not applicable

Upper/lower flammability or explosive limits

Lower explosion limit appr. 3,2 %(V)
Upper explosion limit appr. 53 %(V)

Source Literature value

Vapour pressure

Value appr. 23 hPa

Temperature 20 °C

Method Value taken from the literature

Vapour density

Remarks not determined

Density

Remarks not determined

Solubility in water

Remarks miscible

Ignition temperature

Value appr. 410 °C Source Literature value

Source Viscosity

Remarks

Remarks not determined

9.2. Other information

Other information

None known

SECTION 10: Stability and reactivity

10.1. Reactivity

None

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Trade name: Marabu Aqua Pen MaKeManga Rosa

Version: 2/GB

Substance number: 014500101-03 Replaces Version: 1 / GB

Date revised: 03.03.2017

Print date: 17.03.17

No hazardous reactions known.

10.5. Incompatible materials

None

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

Remarks Based on available data, the classification criteria are not met.

Acute dermal toxicity

Remarks Based on available data, the classification criteria are not met.

Acute inhalational toxicity

Remarks Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Remarks Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Remarks Based on available data, the classification criteria are not met.

Sensitization

Remarks Based on available data, the classification criteria are not met.

Mutagenicity

Remarks Based on available data, the classification criteria are not met.

Reproductive toxicity

Remarks Based on available data, the classification criteria are not met.

Carcinogenicity

Remarks Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (STOT)

Single exposure

Remarks Based on available data, the classification criteria are not met.

Repeated exposure

Remarks Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Experience in practice

Provided all the recommended protective and safety precautions are taken, experience shows that no risk to health can be expected.

Other information

There are no data available on the mixture itself.

The mixture has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and not classified.

SECTION 12: Ecological information

12.1. Toxicity

General information

There are no data available on the mixture itself.Do not allow to enter drains or water courses.The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008

Date revised: 03.03.2013

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: Marabu Aqua Pen MaKeManga Rosa

Version: 2 / GB

Substance number: 014500101-03 Replaces Version: 1 / GB Print date: 17.03.17

and is not classified as dangerous for the environment.

12.2. Persistence and degradability

General information

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

General information

There are no data available on the mixture itself.

12.4. Mobility in soil

General information

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

General information

There are no data available on the mixture itself.

12.6. Other adverse effects

General information

There are no data available on the mixture itself.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

The product can be placed with other household refuse. Small residues in containers can be washed-out with water and put into the drainage system.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off as product waste.

Completely emptied packagings can be given for recycling.

SECTION 14: Transport information

Land transport ADR/RID

Non-dangerous goods

14.1. UN number

UN

14.2. UN proper shipping name

14.3. Transport hazard class(es)

Class Label

Label

14.4. Packing group

Packing group

Transport category

14.5. Environmental hazards

Marine transport IMDG/GGVSee

The product does not constitute a hazardous substance in sea transport.

0

14.1. UN number

UN -

14.2. UN proper shipping name

Date revised: 03.03.201

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: Marabu Aqua Pen MaKeManga Rosa

Version: 2 / GB

Substance number: 014500101-03 Replaces Version: 1 / GB Print date: 17.03.17

14.3. Transport hazard class(es)

Class
Subsidiary risk

14.4. Packing group
Packing group

14.5. Environmental hazards

по

Air transport ICAO/IATA

The product does not constitute a hazardous substance in air transport.

14.1. UN number

UN-

14.2. UN proper shipping name

14.3. Transport hazard class(es)

Class
Subsidiary risk

14.4. Packing group
Packing group

14.5. Environmental hazards

Information for all modes of transport

14.6. Special precautions for user

Transport within the user's premises:

Always transport in closed containers that are upright and secure.

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code no

SECTION 15: Regulatory information ***

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

VOC ***

VOC (EU) 0 %

Other information

All components are contained in the TSCA inventory or exempted. All components are contained in the AICS inventory.

All components are contained in the PICCS inventory. All components are contained in the DSL inventory. All components are contained in the IECSC inventory. All components are contained in the NZIOC inventory.

All components are contained in the ENCS inventory.

All components are contained in the ECL inventory.

15.2. Chemical safety assessment

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

SECTION 16: Other information

Hazard statements listed in Chapter 3

H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin.

Trade name: Marabu Aqua Pen MaKeManga Rosa

Version: 2 / GB Date revised: 03.03.201

Substance number: 014500101-03 Replaces Version: 1 / GB Print date: 17.03.17

H312 Harmful in contact with skin.

H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure:
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Acute toxicity, Category 3 Acute Tox. 3 Acute toxicity, Category 4 Acute Tox. 4 Hazardous to the aquatic environment, acute, Category 1 Aquatic Acute 1 Hazardous to the aquatic environment, chronic, Category 1 Aquatic Chronic 1 Serious eye damage, Category 1 Eye Dam. 1 Skin corrosion, Category 1B Skin Corr. 1B Skin irritation, Category 2 Skin Irrit. 2 Skin sensitization, Category 1 Skin Sens. 1 Specific target organ toxicity - repeated exposure, Category 2 Specific target organ toxicity - single exposure, Category 3 STOT RE 2 STOT SE 3

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.
The information in this Safety Data Sheet is based on the present state of knowledge and current legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet does not complicate the user's own assessment of

workplace risks, as required by other health and safety legislation.

Trade name: Marabu Aqua Pen MaKeManga Himbeere

Version: 2/GB

Substance number: 014500101-04 Replaces Version: 1 / GB Date revised: 03.03.2017

Print date: 17.03.17

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

1.1. Product identifier

Marabu Aqua Pen MaKeManga Himbeere

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

Use of the substance/preparation

Paint

Identified Uses

SU21 Consumer uses: Private households (= general public = consumers)

PC9a Coatings and paints, thinners, paint removers

1.3. Details of the supplier of the safety data sheet

Marabu GmbH & Co. KG Asperger Strasse 4 71732 Tamm Germany

Telephone no. Fax no.

+49-7141/691-0 +49-7141/691-147

Information provided Department product safety by / telephone E-mail address of

PRSI@marabu.de

person responsible

for this SDS

(+49) (0)621-60-43333

1.4. Emergency telephone number

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

EUH208 Contains

A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1), May

produce an allergic reaction.

Supplemental information

Labelling according to regulation (EU) No 528/2012 ***

Contains a biocidal product: A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1)

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients ***

3.2. Mixtures

Page 1(10)

ade name: Marabu Aqua I	Pen MaKeManga		: : 2/GE	3		Date revised: 03.03	
ubstance number: 014500	101-04	Replace	es Versio	n: 1/GB	I	Print date: 17.	.03.17
Chemical character	ization						
Paint based on wat	er						
Hazardous ingredie	ents						
Ethanediol							
CAS No.	107-21-1						
EINECS no.	203-473-3	240.00					
Registration no. Concentration	01-2119456	1	<	10	%		
Concentration		•	-		,,,		
Classification (Regi							
	Acute Tox. 4		H302				
	STOT RE 2		H373				
Bronopol (INN)							
CAS No.	52-51-7						
EINECS no.	200-143-0						
Concentration	>=	0,01	<	0,1	%		
011511 (D	dellas (EO) No	407010000					
Classification (Reg	Eye Dam. 1	12/2/2000	, H318				
	Skin Irrit. 2		H315				
	STOT SE 3		H335				
	Acute Tox. 4		H302				
	Acute Tox. 4		H312				
	Aquatic Acul		H400				
	Aquatic Chro	nic 1	H410				
Concentration limits	(Regulation (EC	C) No. 127	2/2008)				
	Aquatic Acul			= 10			
	Aquatic Chro	onic H4	10 M	= 1			
	1						
A mixture of: 5-Chlo	ro-2-methyl-2h	-isothiazo 220-230	-3-one -61 /3-1)	EC-no. 24 / C/MNIT/N	7-500-7] a 8IT (3:4)	na	
CAS No.	55965-84-9	U. 22U-2U	-0] (0.1)	, ((101)): 1 110	(0.1)		
Concentration	00000		<	0,0015	%		
Classification (Reg	ulation (EC) No. Acute Tox. 3	1272/2008) H331				
	Acute Tox. 3		H410				
	Aquatic Crit		H400				
	Skin Sens. 1		H317				
	Skin Corr. 1		H314				
	Acute Tox. 3		H311				
	Acute Tox. 3		H301				
O	- /Dogulation /5/	N No. 427	20000				
Concentration limits	s (Regulation (E.) Skin Corr. 1l			0,6			
	Eye Irrit. 2	H3		0.06 < 0.6	3		
	Skin Irrit. 2	H3		0,06 < 0,6			
	Skin Sens. 1	Н3	17 >=	0,0015			
Further ingredients	***						
Glycerol							
ČAS No.	56-81-5						
EINECS no.	200-289-5	40		05	07	(2)	
Concentration	>=	10	<	25	%	[3]	

Trade name: Marabu Aqua Pen MaKeManga Himbeere

Version: 2 / GB

Substance number: 014500101-04 Replaces Version: 1 / GB

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*

[3] Substance with occupational exposure limits

SECTION 4: First aid measures

4.1. Description of first aid measures

After skin contact

Wash with plenty of water and soap. Do NOT use solvents or thinners.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an oculist.

After ingestion

Rinse mouth thoroughly with water. If larger amounts are swallowed or in the event of symptoms take medical treatment.

4.2. Most important symptoms and effects, both acute and delayed

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, Foam, Sand, Water

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No particular measures required.

6.2. Environmental precautions

No particular measures required.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

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Trade name: Marabu Aqua Pen MaKeManga Himbeere

Version: 2 / GB

Date revised: 03.03.201

Substance number: 014500101-04

Replaces Version: 1 / GB

Print date: 17.03.17

7.1. Precautions for safe handling

Advice on safe handling

Avoid skin and eye contact. Smoking, eating and drinking shall be prohibited in application area.

Advice on protection against fire and explosion

No special measures required.

Classification of fires / temperature class / Ignition group / Dust explosion class

Temperature class T:

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in frostfree conditions.

Storage class according to TRGS 510

Storage class according to 12 Non-combustible liquids

TRGS 510

7.3. Specific end use(s)

Paint

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Ethanediol

List EH40 Type WEL

Value 10 mg/m³ Skin resorption / sensibilisation: Sk; Status: 2011

Glycerol

List EH40 Type WEL

Value 10 mg/m³

Status: 2011

Other information

There are not known any further control parameters.

Derived No/Minimal Effect Levels (DNEL/DMEL)

Ethanediol

Type of value Derived No Effect Level (DNEL)

Reference group
Duration of exposure
Route of exposure
Mode of action
Concentration

Worker
Long term
inhalative
Local effects

oncentration 35 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Worker

Long term

dermal

Systemic effects

Concentration 106 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Trade name: Marabu Aqua Pen MaKeManga Himbeere

Version: 2/GB

Substance number: 014500101-04 Replaces Version: 1 / GB Date revised: 03.03.2017

Print date: 17.03.17

Duration of exposure Long term Route of exposure inhalative Mode of action Local effects Concentration

mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Consumer **Duration of exposure** Long term Route of exposure dermal Mode of action Systemic effects Concentration

mg/kg

Predicted No Effect Concentration (PNEC)

Ethanediol

Type of value **PNEC** Type Freshwater Concentration 10

mg/l

Type of value **PNEC** Saltwater Type Concentration

mg/l

mg/l

Type of value **PNEC**

Type Concentration Water (intermittent release)

Type of value **PNEC**

Type

Sewage treatment plant (STP) 199,5

mg/l

Concentration Type of value

Type

PNEC Freshwater sediment

Concentration 37

mg/kg

Type of value

Type Concentration Marine sediment

PNEC

3,7

mg/kg

PNEC Type of value Type Soil

Concentration 1,53 mg/kg

8.2. Exposure controls

Exposure controls

Provide adequate ventilation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

liquid Form Colour coloured odourless Odour

Odour threshold

Remarks No data available

Trade name: Marabu Aqua Pen MaKeManga Himbeere

Version: 2/GB

Replaces Version: 1 / GB

Date revised: 03.03.2017 Print date: 17.03.17

Melting point

Substance number: 014500101-04

Remarks not determined

Freezing point

Remarks not determined

Initial boiling point and boiling range

Value appr. 100 °C

Pressure 1.013 hPa Source Literature value

Source Flash point

Remarks Not applicable

Evaporation rate (ether = 1):

Remarks not determined

Flammability (solid, gas)

Not applicable

Upper/lower flammability or explosive limits

Lower explosion limit appr. 3,2 %(V)
Upper explosion limit appr. 53 %(V)

Source Literature value

Vapour pressure

Value appr. 23 hPa

Temperature 20 °C

Method Value taken from the literature

Vapour density

Remarks not determined

Density

Remarks not determined

Solubility in water

Remarks miscible

Ignition temperature

Value appr. 410 °C Source Literature value

Viscosity

Remarks

Remarks not determined

9.2. Other information

Other information

None known

SECTION 10: Stability and reactivity

10.1. Reactivity

None

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Trade name: Marabu Aqua Pen MaKeManga Himbeere

Version: 2 / GB

Substance number: 014500101-04 Replaces Version: 1 / GB

Date revised: 03.03.2017

Print date: 17.03.17

No hazardous reactions known.

10.5. Incompatible materials

None

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

Remarks Based on available data, the classification criteria are not met.

Acute dermal toxicity

Remarks Based on available data, the classification criteria are not met.

Acute inhalational toxicity

Remarks Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Remarks Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Remarks Based on available data, the classification criteria are not met.

Sensitization

Remarks Based on available data, the classification criteria are not met.

Mutagenicity

Remarks Based on available data, the classification criteria are not met.

Reproductive toxicity

Remarks Based on available data, the classification criteria are not met.

Carcinogenicity

Remarks Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (STOT)

Single exposure

Remarks Based on available data, the classification criteria are not met.

Repeated exposure

Remarks Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Experience in practice

Provided all the recommended protective and safety precautions are taken, experience shows that no risk to health can be expected.

Other information

There are no data available on the mixture itself.

The mixture has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and not classified.

SECTION 12: Ecological information

12.1. Toxicity

General information

There are no data available on the mixture itself.Do not allow to enter drains or water courses.The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008

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Version: 2 / GB

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and is not classified as dangerous for the environment.

12.2. Persistence and degradability

General information

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

General information

There are no data available on the mixture itself.

12.4. Mobility in soil

General information

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

General information

There are no data available on the mixture itself.

12.6. Other adverse effects

General information

There are no data available on the mixture itself.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

The product can be placed with other household refuse. Small residues in containers can be washed-out with water and put into the drainage system.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off as product waste.

Completely emptied packagings can be given for recycling.

SECTION 14: Transport information

Land transport ADR/RID

Non-dangerous goods

14.1. UN number

UN-

14.2. UN proper shipping name

14.3. Transport hazard class(es)

Class

Label 14.4. Packing group

Packing group

Transport category

14.5. Environmental hazards

Marine transport IMDG/GGVSee

The product does not constitute a hazardous substance in sea transport.

14.1. UN number

UN -

Item Numbers: 24547-1019

14.2. UN proper shipping name

Trade name: Marabu Aqua Pen MaKeManga Himbeere

Version: 2/GB

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Date revised: 03.03.2017

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14.3. Transport hazard class(es)

Subsidiary risk

Substance number: 014500101-04

14.4. Packing group

Packing group

14.5. Environmental hazards

no

Air transport ICAO/IATA

The product does not constitute a hazardous substance in air transport.

14.1. UN number

UN -

14.2. UN proper shipping name

14.3. Transport hazard class(es)

Class

Subsidiary risk

14.4. Packing group

Packing group

14.5. Environmental hazards

Information for all modes of transport

14.6. Special precautions for user

Transport within the user's premises:

Always transport in closed containers that are upright and secure.

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

SECTION 15: Regulatory information ***

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

VOC ***

VOC (EU) 0 %

Other information

All components are contained in the TSCA inventory or exempted.

All components are contained in the AICS inventory.

All components are contained in the PICCS inventory.

All components are contained in the DSL inventory.

All components are contained in the IECSC inventory. All components are contained in the NZIOC inventory.

All components are contained in the ENCS inventory.

All components are contained in the ECL inventory.

15.2. Chemical safety assessment

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

SECTION 16: Other information

Hazard statements listed in Chapter 3

H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. Substance number: 014500101-04

H410

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: Marabu Aqua Pen MaKeManga Himbeere

Version: 2 / GB Date revised: 03.03.2017
Replaces Version: 1 / GB Print date: 17.03.17

Cabatanac namber: 01-100010101	
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure:
H400	Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

Specific target organ toxicity - single exposure, Category 3

CLP categories listed in Chapter 3

_	· · · · · · · · · · · · · · · · · · ·
Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Eye Dam. 1	Serious eye damage, Category 1
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2

Supplemental information

STOT SE 3

Relevant changes compared with the previous version of the safety data sheet are marked with: *** This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship. The information in this Safety Data Sheet is based on the present state of knowledge and current legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.

Trade name: Marabu Aqua Pen MaKeManga Ultramarinblau dunkel

Version: 2/GB

Substance number: 014500101-05

Replaces Version: 1 / GB

Date revised: 03.03.2017 Print date: 17.03.17

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

1.1. Product identifier

Marabu Aqua Pen MaKeManga Ultramarinblau dunkel

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

Use of the substance/preparation

Paint

Identified Uses

SU21 PC9a

Consumer uses: Private households (= general public = consumers)

Coatings and paints, thinners, paint removers

1.3. Details of the supplier of the safety data sheet

Address

Marabu GmbH & Co. KG Asperger Strasse 4 71732 Tamm Germany

Telephone no. Fax no.

+49-7141/691-0 +49-7141/691-147 Information provided Department product safety

by / telephone E-mail address of

PRSI@marabu.de

person responsible for this SDS

1.4. Emergency telephone number

(+49) (0)621-60-43333

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

EUH208 Contains

A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1), May

produce an allergic reaction.

Supplemental information

Labelling according to regulation (EU) No 528/2012 ***

Contains a biocidal product: A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1)

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients ***

3.2. Mixtures

rade name: Marabu Aqu	rdance with regul a Pen MaKeManga		blau dun			Date revised:	Marabi 03.03.2017
Substance number: 0145	00101-05			: 1/GB			ate: 17.03.17
Chemical charact	erization						
Paint based on w	ater						
Hazardous ingred	lients						
Ethanediol							
CAS No. EINECS no. Registration no.	107-21-1 203-473-3 01-21194568		_	10	%		
Concentration	>=	1	<	10	76		
Classification (Re	egulation (EC) No. 1 Acute Tox. 4 STOT RE 2		H302 H373				
Bronopol (INN)							
CAS No.	52-51-7						
EINECS no.	200-143-0				0.4		
Concentration	>=	0,01	<	0,1	%		
Classification (Re	egulation (EC) No. 1 Eye Dam. 1	1272/2008)	H318				
	Skin Irrit. 2		H315				
	STOT SE 3		H335				
	Acute Tox. 4 Acute Tox. 4		H302 H312				
	Aquatic Acut Aquatic Chro	e 1	H400 H410				
Concentration lin	nits (Regulation (EC Aquatic Acut Aquatic Chro	e 1 H40	D M=	= 10 = 1			
A mixture of: 5-Cl 2-Methyl-2H-isoth	nloro-2-methyl-2h- iazol-3-one [EC-n	isothiazol	-3-one [E -6] (3:1) /	C-no. 247 C(M)IT/MI	-500-7] and T (3:1)	i	
CAS No.	55965-84-9						
Concentration			<	0,0015	%		
Classification (Re	Acute Tox. 3 Aquatic Chro Aquatic Chro Aquatic Acut Skin Sens. 1 Skin Corr. 16 Acute Tox. 3 Acute Tox. 3	onic 1 e 1	H331 H410 H400 H317 H314 H311				
Concentration lin	nits (Regulation (EC Skin Corr. 1l Eye Irrit. 2 Skin Irrit. 2 Skin Sens. 1	3 H31 H31 H31	4 >= 9 <= 5 <=	0,6 0,06 < 0,6 0,06 < 0,6 0,0015			
Further ingredie:	nts ***						
Glycerol							
CAS No. EINECS no.	56-81-5 200-289-5					50 -	
Concentration	>=	10	<	25	%	[3]	

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Trade name: Marabu Aqua Pen MaKeManga Ultramarinblau dunkel

Version: 2/GB

Substance number: 014500101-05 Replaces Version: 1 / GB Date revised: 03.03.201

Print date: 17.03.17

[3] Substance with occupational exposure limits

SECTION 4: First aid measures

4.1. Description of first aid measures

After skin contact

Wash with plenty of water and soap. Do NOT use solvents or thinners.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an oculist.

After ingestion

Rinse mouth thoroughly with water. If larger amounts are swallowed or in the event of symptoms take medical treatment.

4.2. Most important symptoms and effects, both acute and delayed

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, Foam, Sand, Water

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No particular measures required.

6.2. Environmental precautions

No particular measures required.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

Trade name: Marabu Aqua Pen MaKeManga Ultramarinblau dunkel

Version: 2/GB

Substance number: 014500101-05 Replaces Version: 1 / GB

Date revised: 03.03.2017

Print date: 17.03.17

7.1. Precautions for safe handling

Advice on safe handling

Avoid skin and eye contact. Smoking, eating and drinking shall be prohibited in application area.

Advice on protection against fire and explosion

No special measures required.

Classification of fires / temperature class / Ignition group / Dust explosion class

Temperature class T2

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in frostfree conditions.

Storage class according to TRGS 510

Storage class according to 12 Non-combustible liquids

TRGS 510

7.3. Specific end use(s)

Paint

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Ethanediol

List EH40
Type WEL

Value 10 mg/m³

Skin resorption / sensibilisation: Sk; Status: 2011

Glycerol

List EH40
Type WEL

Type WEL
Value 10 mg/m³

Status: 2011

Other information

There are not known any further control parameters.

Derived No/Minimal Effect Levels (DNEL/DMEL)

Ethanediol

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Worker

Long term
inhalative
Local effects

Concentration 35 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group
Duration of exposure
Route of exposure
Mode of action

Worker
Long term
dermal
Systemic effects

Concentration 106 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

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Trade name: Marabu Aqua Pen MaKeManga Ultramarinblau dunkel

Version: 2/GB

Derived No Effect Level (DNEL)

Substance number: 014500101-05 Replaces Version: 1 / GB

Date revised: 03.03.2017

Print date: 17.03.17

Duration of exposure Route of exposure Mode of action Concentration

Long term inhalative Local effects

mg/m³

Type of value Reference group Duration of exposure Route of exposure Mode of action

Consumer Long term dermal Systemic effects

mg/kg

Predicted No Effect Concentration (PNEC)

Ethanediol

Type of value Type Concentration

Concentration

PNEC Freshwater 10

mg/l

Type of value Type Concentration PNEC Saltwater

mg/l

Type of value

PNEC

PNEC

Water (intermittent release)

10

mg/l

Concentration

Type of value

Туре

Type

PNEC Sewage treatment plant (STP)

199,5

mg/l

Concentration

Type of value

Type

Freshwater sediment

37

mg/kg

Concentration

Type of value

Type Concentration PNEC Marine sediment

3,7

mg/kg

Type of value Type Concentration

PNEC Soil

.

1,53

mg/kg

8.2. Exposure controls

Exposure controls

Provide adequate ventilation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties Form

Colour coloured Odour odourless

Odour threshold

Remarks No data available

Trade name: Marabu Aqua Pen MaKeManga Ultramarinblau dunkel

Version: 2 / GB

Substance number: 014500101-05 Replaces Version: 1 / GB

Date revised: 03.03.2017

Print date: 17.03.17

Melting point

Remarks not determined

Freezing point

Remarks not determined

Initial boiling point and boiling range

Value appr. 100 °C

Pressure 1.013
Source Literature value

Flash point

Remarks Not applicable

Evaporation rate (ether = 1):

Remarks not determined

Flammability (solid, gas)

Not applicable

Upper/lower flammability or explosive limits

Lower explosion limit appr. 3,2 %(V)
Upper explosion limit appr. 53 %(V)

Source Literature value

Vapour pressure

Value appr. 23 hPa

Temperature 20 °C

Method Value taken from the literature

Vapour density

Remarks not determined

Density

Remarks not determined

Solubility in water

Remarks miscible

Ignition temperature

Value appr. 410 °C Source Literature value

Viscosity Remarks

Remarks not determined

9.2. Other information

Other information

None known

SECTION 10: Stability and reactivity

10.1. Reactivity

Item Numbers: 24547-1019

None

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Trade name: Marabu Aqua Pen MaKeManga Ultramarinblau dunkel

Version: 2 / GB

Substance number: 014500101-05 Replaces Version: 1 / GB

Date revised: 03.03.2017 Print date: 17.03.17

No hazardous reactions known

10.5. Incompatible materials

None

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

Remarks Based on available data, the classification criteria are not met.

Acute dermal toxicity

Remarks Based on available data, the classification criteria are not met.

Acute inhalational toxicity

Remarks Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Remarks Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Remarks Based on available data, the classification criteria are not met.

Sensitization

Remarks Based on available data, the classification criteria are not met.

Mutagenicity

Remarks Based on available data, the classification criteria are not met.

Reproductive toxicity

Remarks Based on available data, the classification criteria are not met.

Carcinogenicity

Remarks Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (STOT)

Single exposure

Remarks Based on available data, the classification criteria are not met.

Repeated exposure

Remarks Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Experience in practice

Provided all the recommended protective and safety precautions are taken, experience shows that no risk to health can be expected.

Other information

There are no data available on the mixture itself.

The mixture has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and not classified.

SECTION 12: Ecological information

12.1. Toxicity

General information

There are no data available on the mixture itself.Do not allow to enter drains or water courses.The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008

Trade name: Marabu Aqua Pen MaKeManga Ultramarinblau dunkel

Version: 2 / GB

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and is not classified as dangerous for the environment.

12.2. Persistence and degradability

General information

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

General information

There are no data available on the mixture itself.

12.4. Mobility in soil

General information

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

General information

There are no data available on the mixture itself.

12.6. Other adverse effects

General information

There are no data available on the mixture itself.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

The product can be placed with other household refuse. Small residues in containers can be washed-out with water and put into the drainage system.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off as product waste.

Completely emptied packagings can be given for recycling.

SECTION 14: Transport information

Land transport ADR/RID

Non-dangerous goods

14.1. UN number

UN-

14.2. UN proper shipping name

14.3. Transport hazard class(es)

Class

Label 14.4. Packing group

Packing group

Transport category

14.5. Environmental hazards

Marine transport IMDG/GGVSee

The product does not constitute a hazardous substance in sea transport.

14.1. UN number

UN -

14.2. UN proper shipping name

Trade name: Marabu Aqua Pen MaKeManga Ultramarinblau dunkel

Version: 2 / GB

Substance number: 014500101-05 Replaces Version: 1 / GB

Date revised: 03.03.2017

Print date: 17.03.17

14.3. Transport hazard class(es)

Class Subsidiary risk

14.4. Packing group

Packing group

14.5. Environmental hazards

no

Air transport ICAO/IATA

The product does not constitute a hazardous substance in air transport.

14.1. UN number

UN-

14.2. UN proper shipping name

14.3. Transport hazard class(es)

Class

Subsidiary risk

14.4. Packing group

Packing group

14.5. Environmental hazards

Information for all modes of transport

14.6. Special precautions for user

Transport within the user's premises:

Always transport in closed containers that are upright and secure.

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code no

0

SECTION 15: Regulatory information ***

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

VOC ***

VOC (EU)

%

Other information

All components are contained in the TSCA inventory or exempted.

All components are contained in the AICS inventory.

All components are contained in the PICCS inventory.

All components are contained in the DSL inventory.

All components are contained in the IECSC inventory.

All components are contained in the NZIOC inventory.

All components are contained in the ENCS inventory.

All components are contained in the ECL inventory.

15.2. Chemical safety assessment

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

SECTION 16: Other information

Hazard statements listed in Chapter 3

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.

Substance number: 014500101-05

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: Marabu Aqua Pen MaKeManga Ultramarinblau dunkel

Version: 2 / GB		Date revised: 03.03.2017
Replaces Version:	1 / GB	Print date: 17.03.17

H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure:
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

LP categories listed i	n Chapter 3
Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Eye Dam. 1	Serious eye damage, Category 1
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.
The information in this Safety Data Sheet is based on the present state of knowledge and current legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.

Trade name: Marabu Aqua Pen MaKeManga Bernstein

Version: 2/GB

Substance number: 014500101-06

Replaces Version: 1 / GB

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Print date: 17.03.17

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

1.1. Product identifier

Marabu Aqua Pen MaKeManga Bernstein

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

Use of the substance/preparation

Paint

Identified Uses

SU21 PC9a Consumer uses: Private households (= general public = consumers)

Coatings and paints, thinners, paint removers

1.3. Details of the supplier of the safety data sheet

Marabu GmbH & Co. KG Asperger Strasse 4 71732 Tamm Germany

Telephone no. Fax no.

+49-7141/691-0 +49-7141/691-147

by / telephone

Information provided Department product safety

E-mail address of person responsible

PRSI@marabu.de

for this SDS

1.4. Emergency telephone number

(+49) (0)621-60-43333

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

EUH208 Contains

A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1), May

produce an allergic reaction.

Supplemental information

Labelling according to regulation (EU) No 528/2012 ***

Contains a biocidal product: A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1)

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients ***

3.2. Mixtures

rade name: Marabu Aqua I	Pen MaKeMang		· ein on: 2/G	iB		Date revised: 03.03.20
ubstance number: 014500	101-06	Repla	aces Vers	ion: 1/G	В	Print date: 17.03
Chemical character	ization					
Paint based on water	er					
Hazardous ingredie	nts					
Ethanediol						
CAS No.	107-21-1					
EINECS no.	203-473-3	040 00				
Registration no. Concentration	01-2119456 >=	816-28 1	<	10	%	
Concentration	/=	'		10	70	
Classification (Regu	lation (EC) No.	1272/200	08)			
	Acute Tox. 4	,	H30:	-		
	STOT RE 2		H37	3		
Brononel (INN)						
Bronopol (INN) CAS No.	52-51-7					
EINECS no.	200-143-0					
Concentration	>=	0,01	<	0,1	%	
		•		•		
Classification (Regu		1272/200		_		
	Eye Dam. 1		H318			
	Skin Irrit. 2 STOT SE 3		H315			
	Acute Tox. 4		H339 H302			
	Acute Tox. 4		H312			
	Aquatic Acut		H400			
	Aquatic Chro		H410			
		N. N 40	3010000			
Concentration limits	Aquatic Acut	i) No. 12		= 10		
	Aquatic Acut			= 10 = 1		
	1	,,,,,	-710 IV	- •		
A mixture of: 5-Chlo						nd
2-Methyl-2H-isothiaz		o. 220-23	39-6] (3:1) / C(M)!T/I	VIIT (3:1)	
CAS No. Concentration	55965-84-9		<	0.0015	%	
Concentiation				0,0015	70	
Classification (Regu	lation (EC) No.	1272/200	18)			
	Acute Tox. 3		H33			
	Aquatic Chro	nic 1	H410)		
	Aquatic Acut		H400)		
	Skin Sens. 1		H317			
	Skin Corr. 1E		H314			
	Acute Tox. 3		H311			
	Acute Tox. 3		H30 ⁻			
Concentration limits	(Regulation (EC) No. 12	72/2008)			
	Skin Corr. 18			= 0,6		
	Eye Irrit. 2			= 0.06 < 0.0		
	Skin Irrit. 2			= 0,06 < 0,0	6	
	Skin Sens. 1	Н	317 >	= 0,0015		
Further ingredients						
Glycerol	50.01.5					
CAS No.	56-81-5					
EINECS no. Concentration	200-289-5 >=	10	<	25	%	[3]
CUITORI ILI ALIUTI		10	-	~~	/0	[~]

Trade name: Marabu Aqua Pen MaKeManga Bernstein

Version: 2 / GB

Substance number: 014500101-06 Replaces Version: 1 / GB

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*

[3] Substance with occupational exposure limits

SECTION 4: First aid measures

4.1. Description of first aid measures

After skin contact

Wash with plenty of water and soap. Do NOT use solvents or thinners.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an oculist.

After ingestion

Rinse mouth thoroughly with water. If larger amounts are swallowed or in the event of symptoms take medical treatment.

4.2. Most important symptoms and effects, both acute and delayed

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, Foam, Sand, Water

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No particular measures required.

6.2. Environmental precautions

No particular measures required.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

Advice on safe handling

Avoid skin and eye contact. Smoking, eating and drinking shall be prohibited in application area.

Advice on protection against fire and explosion

No special measures required.

Classification of fires / temperature class / Ignition group / Dust explosion class

Temperature class

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in frostfree conditions.

Storage class according to TRGS 510

Storage class according to 12 Non-combustible liquids

TRGS 510

7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Ethanediol

EH40 List WEL Type

mg/m³ Value 10 Skin resorption / sensibilisation: Sk; Status: 2011

Glycerol

List **EH40** WEL Type

mg/m³ Value 10

Status: 2011

Other information

There are not known any further control parameters.

Derived No/Minimal Effect Levels (DNEL/DMEL)

Ethanediol

Derived No Effect Level (DNEL) Type of value

Reference group Worker Long term **Duration of exposure** inhalative Route of exposure Local effects Mode of action Concentration

mg/m³

Derived No Effect Level (DNEL) Type of value

Worker Reference group **Duration of exposure** Long term Route of exposure dermal Systemic effects Mode of action

Concentration mg/kg

Derived No Effect Level (DNEL) Type of value

Consumer Reference group

Trade name: Marabu Aqua Pen MaKeManga Bernstein

Version: 2 / GB

Replaces Version: 1 / GB Substance number: 014500101-06

Date revised: 03.03.2017

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Duration of exposure Long term Route of exposure inhalative Mode of action Local effects Concentration

mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Consumer Duration of exposure Long term dermal Route of exposure Systemic effects Mode of action

mg/kg Concentration

Predicted No Effect Concentration (PNEC)

Ethanediol

Type of value PNEC Type Freshwater Concentration

mg/l

Type of value **PNEC** Saltwater Type Concentration

mg/l

Type of value **PNEC**

Type Water (intermittent release)

Concentration mg/l

PNEC Type of value

Sewage treatment plant (STP) Type Concentration

199,5 mg/l

Type of value **PNEC**

Freshwater sediment Type

Concentration mg/kg 37

Type of value

PNEC Marine sediment Type

Concentration mg/kg 3.7

Type of value **PNEC** Type Soil

Concentration 1,53 mg/kg

8.2. Exposure controls

Exposure controls

Provide adequate ventilation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form liquid Colour coloured Odour odourless

Odour threshold

No data available Remarks

Trade name: Marabu Aqua Pen MaKeManga Bernstein

Version: 2/GB

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Melting point

Remarks not determined

Freezing point

Remarks not determined

Initial boiling point and boiling range

аррг. 100 °C

1.013 hPa Pressure Source Literature value

Flash point

Remarks Not applicable

Evaporation rate (ether = 1):

not determined Remarks

Flammability (solid, gas)

Not applicable

Upper/lower flammability or explosive limits

Lower explosion limit %(V) appr. 3,2 53 Upper explosion limit аррг. %(V) Literature value

Source

Vapour pressure

Value 23 hPa appr.

Temperature 20 °C

Value taken from the literature Method

Vapour density

not determined Remarks

Density

Remarks not determined

Solubility in water

miscible Remarks

Ignition temperature

°C appr. 410 Value Literature value Source

Viscosity

Remarks

not determined Remarks

9.2. Other information

Other information

None known

SECTION 10: Stability and reactivity

10.1. Reactivity

None

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Trade name: Marabu Aqua Pen MaKeManga Bernstein

Version: 2 / GB

Substance number: 014500101-06 Replaces Version: 1 / GB

Date revised: 03.03.2017

Print date: 17.03.17

No hazardous reactions known.

10.5. Incompatible materials

None

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

Remarks Based on available data, the classification criteria are not met.

Acute dermal toxicity

Remarks Based on available data, the classification criteria are not met.

Acute inhalational toxicity

Remarks Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Remarks Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Remarks Based on available data, the classification criteria are not met.

Sensitization

Remarks Based on available data, the classification criteria are not met.

Mutagenicity

Remarks Based on available data, the classification criteria are not met.

Reproductive toxicity

Remarks Based on available data, the classification criteria are not met.

Carcinogenicity

Remarks Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (STOT)

Single exposure

Remarks Based on available data, the classification criteria are not met.

Repeated exposure

Remarks Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Experience in practice

Provided all the recommended protective and safety precautions are taken, experience shows that no risk to health can be expected.

Other information

There are no data available on the mixture itself.

The mixture has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and not classified.

SECTION 12: Ecological information

12.1. Toxicity

General information

There are no data available on the mixture itself.Do not allow to enter drains or water courses.The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008

Date revised: 03.03.201

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: Marabu Aqua Pen MaKeManga Bernstein

Version: 2 / GB

Substance number: 014500101-06 Replaces Version: 1 / GB Print date: 17.03.17

and is not classified as dangerous for the environment.

12.2. Persistence and degradability

General information

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

General information

There are no data available on the mixture itself.

12.4. Mobility in soil

General information

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

General information

There are no data available on the mixture itself.

12.6. Other adverse effects

General information

There are no data available on the mixture itself.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

The product can be placed with other household refuse. Small residues in containers can be washed-out with water and put into the drainage system.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off as product waste.

Completely emptied packagings can be given for recycling.

SECTION 14: Transport information

Land transport ADR/RID

Non-dangerous goods

14.1. UN number

UN-

14.2. UN proper shipping name

14.3. Transport hazard class(es)

Class Label

14.4. Packing group

Packing group

Transport category

14.5. Environmental hazards

Marine transport IMDG/GGVSee

The product does not constitute a hazardous substance in sea transport.

0

14.1. UN number

UN -

14.2. UN proper shipping name

Trade name: Marabu Aqua Pen MaKeManga Bernstein

Version: 2 / GB

Substance number: 014500101-06 Replaces Version: 1 / GB

Date revised: 03.03.2017 Print date: 17.03.17

14.3. Transport hazard class(es)

Subsidiary risk

14.4. Packing group

Packing group

14.5. Environmental hazards

no

Air transport ICAO/IATA

The product does not constitute a hazardous substance in air transport.

14.1. UN number

UN-

14.2. UN proper shipping name

14.3. Transport hazard class(es)

Class

Subsidiary risk

14.4. Packing group

Packing group

14.5. Environmental hazards

Information for all modes of transport

14.6. Special precautions for user

Transport within the user's premises:

Always transport in closed containers that are upright and secure.

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

O

SECTION 15: Regulatory information ***

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

VOC ***

VOC (EU)

%

Other information

All components are contained in the TSCA inventory or exempted.

All components are contained in the AICS inventory.

All components are contained in the PICCS inventory.

All components are contained in the DSL inventory.

All components are contained in the IECSC inventory.

All components are contained in the NZIOC inventory.

All components are contained in the ENCS inventory.

All components are contained in the ECL inventory.

15.2. Chemical safety assessment

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

SECTION 16: Other information

Hazard statements listed in Chapter 3

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.

Trade name: Marabu Aqua Pen MaKeManga Bernstein

Version: 2 / GB Date revised: 03.03.201

Substance number:	014500101-06	Replaces Version:	1 / GB	Print date: 17.03.17

H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure:
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Eye Dam. 1	Serious eye damage, Category 1
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, Category
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.
The information in this Safety Data Sheet is based on the present state of knowledge and current legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.