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

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 080

Version: 2 / GB Date revised: 24.01.2020

Substance number: 0145900000102-080 Replaces Version: 1 / GB Print date: 12.05.23

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

#### 1.1. Product identifier

Marabu Aqua Pen King.o.B. 6pcs. MNA 080

# 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/Manufacturer

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

Telephone no. +49-7141/691-0

Information provided Department product safety

by / telephone

for this SDS

E-mail address of person responsible

PRSI@marabu.com

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

EUH208 Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and

2-methyl-2H-isothiazol-3-one (3:1), May produce an allergic reaction.

#### Supplemental information

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

Contains a biocidal product: reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

#### 2.3. Other hazards

No special hazards have to be mentioned.

## SECTION 3: Composition/information on ingredients \*\*\*

#### 3.2. Mixtures

# Hazardous ingredients \*\*\*

**Ethanediol** 

CAS No. 107-21-1

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

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 080

Version: 2/GB Date revised: 24.01.2020

Print date: 12.05.23 Replaces Version: 1 / GB Substance number: 0145900000102-080

EINECS no. 203-473-3

Registration no. 01-2119456816-28

Concentration 10 % >=

Classification (Regulation (EC) No. 1272/2008)

H302 Acute Tox. 4 STOT RE 2 H373

#### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

CAS No. 55965-84-9

Concentration 0,001 0.0015 %

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 2 H330 Aquatic Chronic 1 H410 Aquatic Acute 1 H400 Skin Sens. 1A H317 Skin Corr. 1C H314 Acute Tox. 2 H310 Acute Tox. 3 H301 Eve Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)

Skin Corr. 1C H314 >= 0.6H319 >= 0.06 < 0.6Eye Irrit. 2 Skin Irrit. 2 H315 >= 0,06 < 0,6 Skin Sens. 1 H317 >= 0.0015Aquatic Acute 1 H410 M = 100Aquatic Chronic H410 M = 100

H318 Eye Dam. 1 >= 0,6 %

# 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

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

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 080

Version: 2 / GB Date revised: 24.01.2020

Substance number: 0145900000102-080 Replaces Version: 1 / GB Print date: 12.05.23

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

# 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.

# 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/m<sup>3</sup>

Skin resorption / sensibilisation: Sk: 2011

## **Ethanediol**

List EU

Value 52  $mg/m^3$  20 ppm(V)Short term exposure limit 104  $mg/m^3$  40 ppm(V)

Skin resorption / sensibilisation: Skin; Remarks: 2000/39/EG

#### **Glycerol**

List EH40

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

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 080

Version: 2 / GB Date revised: 24.01.2020

Substance number: 0145900000102-080 Replaces Version: 1 / GB Print date: 12.05.23

Type WEL

Value 10 mg/m<sup>3</sup>

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

35

oncentration 35 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

Reference group Worker
Duration of exposure Long term
Route of exposure dermal

Mode of action Systemic effects

Concentration 106 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long term
inhalative

Local effects

Concentration 7 mg/m<sup>3</sup>

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

# **Predicted No Effect Concentration (PNEC)**

**Ethanediol** 

Type of value PNEC Type Freshwater

Concentration 10 mg/l

Type of value PNEC
Type Saltwater

Concentration 1 mg/l

Type of value PNEC

Type Water (intermittent release)

Concentration 10 mg/l

Type of value PNEC

Type Sewage treatment plant (STP)

Concentration 199,5 mg/l

Type of value PNEC

Type Freshwater sediment

Concentration 37 mg/kg

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

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 080

Version: 2 / GB Date revised: 24.01.2020

Substance number: 0145900000102-080 Replaces Version: 1 / GB Print date: 12.05.23

Type of value PNEC

Type Marine sediment

Concentration 3,7 mg/kg

Type of value PNEC Type Soil

Concentration 1,53 mg/kg

## 8.2. Exposure controls

#### **Exposure controls**

Provide adequate ventilation.

#### Respiratory protection

Not necessary.

#### Hand protection

Not necessary.

In case of intensive contact wear protective gloves.

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

For prolonged or repeated handling nitrile rubber gloves with textile undergloves are required.

Material thickness > 0,5 mm Breakthrough time < 30 min

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

#### Eye protection

Not necessary.

# **Body protection**

Not applicable.

# SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state liquid coloured Odour odourless

Melting point

Remarks not determined

Freezing point

Remarks not determined

#### Boiling point or initial boiling point and boiling range

Value appr. 100 °C

Pressure 1.013 hPa Source Literature value

Flammability
Not applicable

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

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 080

Version: 2 / GB Date revised: 24.01.2020

Substance number: 0145900000102-080 Replaces Version: 1 / GB Print date: 12.05.23

Upper and lower explosive limits

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

Source Literature value

Flash point

Remarks Not applicable

Ignition temperature

Value appr. 410 °C

Source Literature value

**Viscosity** 

Remarks

Remarks not determined

Vapour pressure

Value appr. 23 hPa

Temperature 20 °C

Method Value taken from the literature

Density and/or relative density

Remarks not determined

Relative vapour density

Remarks not determined

9.2. Other information

**Odour threshold** 

Remarks No data available

Evaporation rate (ether = 1):

Remarks not determined

Solubility in water

Remarks miscible

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

No hazardous reactions known.

# 10.5. Incompatible materials

None

# 10.6. Hazardous decomposition products

No hazardous decomposition products known.

# SECTION 11: Toxicological information

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

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 080

Version: 2 / GB Date revised: 24.01.2020

Substance number: 0145900000102-080 Replaces Version: 1 / GB Print date: 12.05.23

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

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

Acute oral toxicity (Components)

**Ethanediol** 

Species rat

LD50 7712 mg/kg

Acute dermal toxicity

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

Acute dermal toxicity (Components)

**Ethanediol** 

Species rabbit

LD50 > 9530 mg/kg

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**

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Ingestion may cause nausea, diarrhoea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

#### Other information

There are no data available on the mixture itself.

The mixture has been assessed following the additivity method of the CLP Regulation (EC) No

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

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 080

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1272/2008 and classified for toxicological hazards accordingly.

# **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 and is not classified as dangerous for the environment.

## Fish toxicity (Components)

## **Ethanediol**

Species Fathead minnow (Pimephales promelas) LC50 8050 mg/l

Duration of exposure 96 h

## reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Species rainbow trout (Oncorhynchus mykiss)

LC50 0,188 mg/l

Duration of exposure 96 h

#### **Daphnia toxicity (Components)**

#### **Ethanediol**

Species Daphnia magna

> 10000 mg/l

Duration of exposure 24 h

# reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Species Daphnia magna

EC50 0,126 mg/l

Duration of exposure 48 h

# Algae toxicity (Components)

# reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Species Selenastrum capricornutum

EC50 0,027 mg/l

Duration of exposure 72 h

# 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

Item Numbers: 24547-1029

## **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.

#### 12.7. Other adverse effects

#### **General information**

There are no data available on the mixture itself.

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

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 080

Version: 2/GB

Substance number: 0145900000102-080 Replaces Version: 1 / GB

Date revised: 24.01.2020

Print date: 12.05.23

# SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

#### Disposal recommendations for the product

Do not allow to enter drains or water courses.

Dispose of waste according to applicable legislation.

Dispose of as hazardous waste.

#### 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

| DEGITION 14. Trails              | Land transport ADR/RID  | Marine transport<br>IMDG/GGVSee  | Air transport<br>ICAO/IATA   |
|----------------------------------|---|--|--|
| 14.1. UN number                  | The product does not constitute a hazardous substance in land transport | The product does not constitute a hazardous substance in sea transport | The product does not constitute a hazardous substance in air transport |
| 14.2. UN proper shipping name    | -   | -  | -  |
| 14.3. Transport hazard class(es) | -   | -  | -  |
| Subsidiary risk                  |   | -  | -  |
| Label                            |   |  |  |
| 14.4. Packing group              | -   | -  | -  |
| Transport category               | 0   |  |  |
| 14.5. Environmental hazards      |   | no   |  |
|                                  | -   |  | -  |

## 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 Maritime transport in bulk according to IMO instruments

nc

# SECTION 15: Regulatory information

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

VOC

VOC (EU) 5 %

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 080

Version: 2 / GB Date revised: 24.01.2020

Substance number: 0145900000102-080 Replaces Version: 1 / GB Print date: 12.05.23

#### Other information

The product does not contain substances of very high concern (SVHC).

#### 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.       |
| H310 | Fatal in contact with skin. |

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

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. 2 Acute toxicity, Category 2
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. 1C Skin corrosion, Category 1C
Skin Sens. 1A Skin sensitization, Category 1A

STOT RE 2 Specific target organ toxicity - repeated exposure, Category 2

#### 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 King.o.B. 6pcs. MNA 095

Version: 1/GB Date revised: 11.02.2020

Print date: 12.05.23 Replaces Version: -/GB Substance number: 0145900000102-095

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

#### 1.1. Product identifier

Marabu Aqua Pen King.o.B. 6pcs. MNA 095

# 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/Manufacturer

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

+49-7141/691-0 Telephone no.

Information provided Department product safety

by / telephone

E-mail address of

PRSI@marabu.com

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

**EUH208 Contains** reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and

2-methyl-2H-isothiazol-3-one (3:1), May produce an allergic reaction.

#### Supplemental information

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

Contains a biocidal product: reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

#### 2.3. Other hazards

No special hazards have to be mentioned.

## SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

# **Hazardous ingredients**

**Ethanediol** 

107-21-1 CAS No.

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

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 095

Version: 1/GB Date revised: 11.02.2020

Print date: 12.05.23 Replaces Version: -/GB Substance number: 0145900000102-095

EINECS no. 203-473-3

Registration no. 01-2119456816-28

Concentration 10 % >=

Classification (Regulation (EC) No. 1272/2008)

H302 Acute Tox. 4 STOT RE 2 H373

#### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

CAS No. 55965-84-9

Concentration 0,001 0.0015 %

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 2 H330 Aquatic Chronic 1 H410 Aquatic Acute 1 H400 Skin Sens. 1A H317 Skin Corr. 1C H314 Acute Tox. 2 H310 Acute Tox. 3 H301 Eve Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)

Skin Corr. 1C H314 >= 0,6H319 >= 0.06 < 0.6Eye Irrit. 2 Skin Irrit. 2 H315 >= 0,06 < 0,6 Skin Sens. 1 H317 >= 0.0015Aquatic Acute 1 H410 M = 100Aquatic Chronic H410 M = 100

H318 Eye Dam. 1 >= 0,6 %

# 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

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 095

Version: 1 / GB Date revised: 11.02.2020

Substance number: 0145900000102-095 Replaces Version: - / GB Print date: 12.05.23

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

# 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.

# 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/m<sup>3</sup>

Skin resorption / sensibilisation: Sk: 2011

## **Ethanediol**

List EU

Value 52  $mg/m^3$  20 ppm(V)Short term exposure limit 104  $mg/m^3$  40 ppm(V)

Skin resorption / sensibilisation: Skin; Remarks: 2000/39/EG

#### **Glycerol**

List EH40

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

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 095

Version: 1 / GB Date revised: 11.02.2020

Substance number: 0145900000102-095 Replaces Version: - / GB Print date: 12.05.23

Type WEL

Value 10 mg/m<sup>3</sup>

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

35

oncentration 35 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

Reference group Worker
Duration of exposure Long term
Route of exposure dermal

Mode of action Systemic effects

Concentration 106 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long term
inhalative

Local effects

Concentration 7 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 53 mg/kg

# **Predicted No Effect Concentration (PNEC)**

**Ethanediol** 

Type of value PNEC Type Freshwater

Concentration 10 mg/l

Type of value PNEC
Type Saltwater

Concentration 1 mg/l

Type of value PNEC

Type Water (intermittent release)

Concentration 10 mg/l

Type of value PNEC

Type Sewage treatment plant (STP)

Concentration 199,5 mg/l

Type of value PNEC

Type Freshwater sediment

Concentration 37 mg/kg

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

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 095

Version: 1 / GB Date revised: 11.02.2020

Substance number: 0145900000102-095 Replaces Version: - / GB Print date: 12.05.23

Type of value PNEC

Type Marine sediment

Concentration 3,7 mg/kg

Type of value PNEC Type Soil

Concentration 1,53 mg/kg

## 8.2. Exposure controls

#### **Exposure controls**

Provide adequate ventilation.

#### Respiratory protection

Not necessary.

#### Hand protection

Not necessary.

In case of intensive contact wear protective gloves.

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

For prolonged or repeated handling nitrile rubber gloves with textile undergloves are required.

Material thickness > 0,5 mm Breakthrough time < 30 min

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

#### Eye protection

Not necessary.

# **Body protection**

Not applicable.

# SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state liquid coloured Odour odourless

**Melting point** 

Remarks not determined

Freezing point

Remarks not determined

# Boiling point or initial boiling point and boiling range

Value appr. 100 °C

Pressure 1.013 hPa Source Literature value

Flammability
Not applicable

Item Numbers: 24547-1029

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

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 095

Version: 1 / GB Date revised: 11.02.2020

Substance number: 0145900000102-095 Replaces Version: -/GB Print date: 12.05.23

Upper and lower explosive limits

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

Source Literature value

Flash point

Remarks Not applicable

Ignition temperature

Value appr. 410 °C

Source Literature value

**Viscosity** 

Remarks

Remarks not determined

Vapour pressure

Value appr. 23 hPa

Temperature 20 °C

Method Value taken from the literature

Density and/or relative density

Remarks not determined

Relative vapour density

Remarks not determined

9.2. Other information

**Odour threshold** 

Remarks No data available

Evaporation rate (ether = 1):

Remarks not determined

Solubility in water

Remarks miscible

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

No hazardous reactions known.

10.5. Incompatible materials

None

10.6. Hazardous decomposition products

No hazardous decomposition products known.

# SECTION 11: Toxicological information

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

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 095

Version: 1 / GB

Date revised: 11.02.202

Substance number: 0145900000102-095 Replaces Version: - / GB Print date: 12.05.23

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute oral toxicity

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

#### **Acute oral toxicity (Components)**

**Ethanediol** 

Species rat

LD50 7712 mg/kg

Acute dermal toxicity

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

#### **Acute dermal toxicity (Components)**

**Ethanediol** 

Species rabbit

LD50 > 9530 mg/kg

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

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Ingestion may cause nausea, diarrhoea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

#### Other information

There are no data available on the mixture itself.

The mixture has been assessed following the additivity method of the CLP Regulation (EC) No

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1272/2008 and classified for toxicological hazards accordingly.

# **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 and is not classified as dangerous for the environment.

# Fish toxicity (Components)

## **Ethanediol**

Species Fathead minnow (Pimephales promelas) LC50 8050 mg/l

Duration of exposure 96 h

# reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Species rainbow trout (Oncorhynchus mykiss)

LC50 0,188 mg/l

Duration of exposure 96 h

#### **Daphnia toxicity (Components)**

#### **Ethanediol**

Species Daphnia magna

> 10000 mg/l

Duration of exposure 24 h

## reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Species Daphnia magna

EC50 0,126 mg/l

Duration of exposure 48 h

# Algae toxicity (Components)

# reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Species Selenastrum capricornutum

EC50 0,027 mg/l

Duration of exposure 72 h

# 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

Item Numbers: 24547-1029

## **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.

#### 12.7. Other adverse effects

#### **General information**

There are no data available on the mixture itself.

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 095

Version: 1/GB

Replaces Version: -/GB Substance number: 0145900000102-095

# Print date: 12.05.23

Date revised: 11.02.2020

# SECTION 13: Disposal considerations

# 13.1. Waste treatment methods

#### Disposal recommendations for the product

Do not allow to enter drains or water courses.

Dispose of waste according to applicable legislation.

Dispose of as hazardous waste.

#### 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  | Marine transport<br>IMDG/GGVSee  | Air transport<br>ICAO/IATA   |
|----------------------------------|---|--|--|
| 14.1. UN number                  | The product does not constitute a hazardous substance in land transport | The product does not constitute a hazardous substance in sea transport | The product does not constitute a hazardous substance in air transport |
| 14.2. UN proper shipping name    | -   | -  | -  |
| 14.3. Transport hazard class(es) | -   | -  | -  |
| Subsidiary risk                  |   | -  | -  |
| Label                            |   |  |  |
| 14.4. Packing group              | -   | -  | -  |
| Transport category               | 0   |  |  |
| 14.5. Environmental hazards      |   | no   |  |
|                                  | -   |  | -  |

## 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 Maritime transport in bulk according to IMO instruments

# SECTION 15: Regulatory information

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

VOC

VOC (EU) 5 %

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#### Other information

The product does not contain substances of very high concern (SVHC).

#### 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 | i oxic if swallowed.        |
|------|-----------------------------|
| H302 | Harmful if swallowed.       |
| H310 | Fatal in contact with skin. |

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

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. 2 Acute toxicity, Category 2
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. 1C Skin corrosion, Category 1C
Skin Sens. 1A Skin sensitization, Category 1A

STOT RE 2 Specific target organ toxicity - repeated exposure, Category 2

#### 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.

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Substance number: 0145900000102-030 Replaces Version: 1 / GB Print date: 12.05.23

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

#### 1.1. Product identifier

Marabu Aqua Pen King.o.B. 6pcs. MNA 030

# 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/Manufacturer

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

Telephone no. +49-7141/691-0

Information provided Department product safety

by / telephone

E-mail address of

PRSI@marabu.com

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

EUH208 Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and

2-methyl-2H-isothiazol-3-one (3:1), May produce an allergic reaction.

#### Supplemental information

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

Contains a biocidal product: reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

#### 2.3. Other hazards

No special hazards have to be mentioned.

## SECTION 3: Composition/information on ingredients \*\*\*

## 3.2. Mixtures

# Hazardous ingredients \*\*\*

**Ethanediol** 

CAS No. 107-21-1

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

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EINECS no. 203-473-3

Registration no. 01-2119456816-28

Concentration 10 % >=

Classification (Regulation (EC) No. 1272/2008)

H302 Acute Tox. 4 STOT RE 2 H373

#### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

CAS No. 55965-84-9

Concentration 0,001 0.0015 %

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 2 H330 Aquatic Chronic 1 H410 Aquatic Acute 1 H400 Skin Sens. 1A H317 Skin Corr. 1C H314 Acute Tox. 2 H310 Acute Tox. 3 H301 Eve Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)

Skin Corr. 1C H314 >= 0,6H319 >= 0.06 < 0.6Eye Irrit. 2 Skin Irrit. 2 H315 >= 0,06 < 0,6 Skin Sens. 1 H317 >= 0.0015Aquatic Acute 1 H410 M = 100Aquatic Chronic H410 M = 100

H318 Eye Dam. 1 >= 0,6 %

# 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

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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

# 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.

# 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/m<sup>3</sup>

Skin resorption / sensibilisation: Sk: 2011

## **Ethanediol**

List EU

Value 52  $mg/m^3$  20 ppm(V)Short term exposure limit 104  $mg/m^3$  40 ppm(V)

Skin resorption / sensibilisation: Skin; Remarks: 2000/39/EG

#### **Glycerol**

List EH40

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

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Type WEL

Value 10 mg/m<sup>3</sup>

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

Route of exposure

Mode of action

Concentration

Worker

Long term
inhalative
Local effects

Concentration 35 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

Reference group Worker
Duration of exposure Long term
Route of exposure dermal

Mode of action Systemic effects

Concentration 106 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long term
inhalative

Local effects

Concentration 7 mg/m<sup>3</sup>

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

# **Predicted No Effect Concentration (PNEC)**

**Ethanediol** 

Type of value PNEC Type Freshwater

Concentration 10 mg/l

Type of value PNEC
Type Saltwater

Concentration 1 mg/l

Type of value PNEC

Type Water (intermittent release)

Concentration 10 mg/l

Type of value PNEC

Type Sewage treatment plant (STP)

Concentration 199,5 mg/l

Type of value PNEC

Type Freshwater sediment

Concentration 37 mg/kg

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

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Type of value PNEC

Type Marine sediment

Concentration 3,7 mg/kg

Type of value PNEC

Type Soil

Concentration 1,53 mg/kg

# 8.2. Exposure controls

# **Exposure controls**

Provide adequate ventilation.

#### Respiratory protection

Not necessary.

#### Hand protection

Not necessary.

In case of intensive contact wear protective gloves.

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

For prolonged or repeated handling nitrile rubber gloves with textile undergloves are required.

Material thickness > 0,5 mm Breakthrough time < 30 min

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

#### Eye protection

Not necessary.

#### **Body protection**

Not applicable.

# SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state liquid coloured Odour odourless

**Melting point** 

Remarks not determined

Freezing point

Remarks not determined

#### Boiling point or initial boiling point and boiling range

Value appr. 100 °C

Pressure 1.013 hPa Source Literature value

Flammability
Not applicable

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

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 030

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Substance number: 0145900000102-030 Replaces Version: 1 / GB Print date: 12.05.23

Upper and lower explosive limits

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

Source Literature value

Flash point

Remarks Not applicable

Ignition temperature

Value appr. 410 °C

Source Literature value

**Viscosity** 

Remarks

Remarks not determined

Vapour pressure

Value appr. 23 hPa

Temperature 20 °C

Method Value taken from the literature

Density and/or relative density

Remarks not determined

Relative vapour density

Remarks not determined

9.2. Other information

**Odour threshold** 

Remarks No data available

Evaporation rate (ether = 1):

Remarks not determined

Solubility in water

Remarks miscible

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

No hazardous reactions known.

## 10.5. Incompatible materials

None

#### 10.6. Hazardous decomposition products

No hazardous decomposition products known.

# SECTION 11: Toxicological information

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

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Substance number: 0145900000102-030 Replaces Version: 1 / GB Print date: 12.05.23

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute oral toxicity

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

#### **Acute oral toxicity (Components)**

**Ethanediol** 

Species rat

LD50 7712 mg/kg

Acute dermal toxicity

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

#### **Acute dermal toxicity (Components)**

**Ethanediol** 

Species rabbit

LD50 > 9530 mg/kg

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

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Ingestion may cause nausea, diarrhoea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

#### Other information

There are no data available on the mixture itself.

The mixture has been assessed following the additivity method of the CLP Regulation (EC) No

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1272/2008 and classified for toxicological hazards accordingly.

# **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 and is not classified as dangerous for the environment.

# Fish toxicity (Components)

## **Ethanediol**

Species Fathead minnow (Pimephales promelas) LC50 8050 mg/l

Duration of exposure 96 h

## reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Species rainbow trout (Oncorhynchus mykiss)

LC50 0,188 mg/l

Duration of exposure 96 h

#### **Daphnia toxicity (Components)**

#### **Ethanediol**

Species Daphnia magna

> 10000 mg/l

Duration of exposure 24 h

# reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Species Daphnia magna

EC50 0,126 mg/l

Duration of exposure 48 h

# Algae toxicity (Components)

# reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Species Selenastrum capricornutum

EC50 0,027 mg/l

Duration of exposure 72 h

# 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

Item Numbers: 24547-1029

## **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.

#### 12.7. Other adverse effects

#### **General information**

There are no data available on the mixture itself.

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Substance number: 0145900000102-030 Replaces Version: 1 / GB Print date: 12.05.23

# SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

#### Disposal recommendations for the product

Do not allow to enter drains or water courses.

Dispose of waste according to applicable legislation.

Dispose of as hazardous waste.

#### 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  | Marine transport<br>IMDG/GGVSee  | Air transport<br>ICAO/IATA   |
|----------------------------------|---|--|--|
| 14.1. UN number                  | The product does not constitute a hazardous substance in land transport | The product does not constitute a hazardous substance in sea transport | The product does not constitute a hazardous substance in air transport |
| 14.2. UN proper shipping name    | -   | -  | -  |
| 14.3. Transport hazard class(es) | -   | -  | -  |
| Subsidiary risk                  |   | -  | -  |
| Label                            |   |  |  |
| 14.4. Packing group              | -   | -  | -  |
| Transport category               | 0   |  |  |
| 14.5. Environmental hazards      |   | no   |  |
|                                  | -   |  | -  |

## 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 Maritime transport in bulk according to IMO instruments

nc

# SECTION 15: Regulatory information

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

VOC

VOC (EU) 5 %

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 030

Version: 2 / GB Date revised: 24.01.2020

Substance number: 0145900000102-030 Replaces Version: 1 / GB Print date: 12.05.23

#### Other information

The product does not contain substances of very high concern (SVHC).

#### 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 | l oxic if swallowed.        |
|------|-----------------------------|
| H302 | Harmful if swallowed.       |
| H310 | Fatal in contact with skin. |

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

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. 2 Acute toxicity, Category 2
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. 1C Skin corrosion, Category 1C
Skin Sens. 1A Skin sensitization, Category 1A

STOT RE 2 Specific target organ toxicity - repeated exposure, Category 2

#### 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 King.o.B. 6pcs. MNA 073

Version: 1 / GB Date revised: 22.11.2019

Substance number: 0145900000102-073 Replaces Version: - / GB Print date: 12.05.23

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

#### 1.1. Product identifier

Marabu Aqua Pen King.o.B. 6pcs. MNA 073

# 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/Manufacturer

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

Telephone no. +49-7141/691-0

Information provided Department product safety

by / telephone

E-mail address of person responsible

PRSI@marabu.com

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

EUH208 Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and

2-methyl-2H-isothiazol-3-one (3:1), May produce an allergic reaction.

#### Supplemental information

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

Contains a biocidal product: reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

#### 2.3. Other hazards

No special hazards have to be mentioned.

## SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

# Hazardous ingredients

**Ethanediol** 

CAS No. 107-21-1

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

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 073

Version: 1/GB Date revised: 22.11.2019

Print date: 12.05.23 Replaces Version: -/GB Substance number: 0145900000102-073

EINECS no. 203-473-3

Registration no. 01-2119456816-28

Concentration 10 % >=

Classification (Regulation (EC) No. 1272/2008)

H302 Acute Tox. 4 STOT RE 2 H373

#### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

CAS No. 55965-84-9

Concentration 0,001 0.0015 %

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 2 H330 Aquatic Chronic 1 H410 Aquatic Acute 1 H400 Skin Sens. 1A H317 Skin Corr. 1C H314 Acute Tox. 2 H310 Acute Tox. 3 H301 Eve Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)

Skin Corr. 1C H314 >= 0,6H319 >= 0.06 < 0.6Eye Irrit. 2 Skin Irrit. 2 H315 >= 0,06 < 0,6 Skin Sens. 1 H317 >= 0.0015Aquatic Acute 1 H410 M = 100Aquatic Chronic H410 M = 100

H318 Eye Dam. 1 >= 0,6 %

# 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

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 073

Version: 1 / GB Date revised: 22.11.2019

Substance number: 0145900000102-073 Replaces Version: - / GB Print date: 12.05.23

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

# 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.

# 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/m<sup>3</sup>

Skin resorption / sensibilisation: Sk: 2011

## **Ethanediol**

List EU

Value 52  $mg/m^3$  20 ppm(V)Short term exposure limit 104  $mg/m^3$  40 ppm(V)

Skin resorption / sensibilisation: Skin; Remarks: 2000/39/EG

#### **Glycerol**

List EH40

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

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 073

Version: 1 / GB Date revised: 22.11.2019

Substance number: 0145900000102-073 Replaces Version: - / GB Print date: 12.05.23

Type WEL

Value 10 mg/m<sup>3</sup>

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

35

oncentration 35 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Worker
Duration of exposure Long term
Route of exposure dermal

Mode of action Systemic effects

Concentration 106 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long term
inhalative

Local effects

Concentration 7 mg/m<sup>3</sup>

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

# **Predicted No Effect Concentration (PNEC)**

**Ethanediol** 

Type of value PNEC Type Freshwater

Concentration 10 mg/l

Type of value PNEC
Type Saltwater

Concentration 1 mg/l

Type of value PNEC

Type Water (intermittent release)

Concentration 10 mg/l

Type of value PNEC

Type Sewage treatment plant (STP)

Concentration 199,5 mg/l

Type of value PNEC

Type Freshwater sediment

Concentration 37 mg/kg

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

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 073

Version: 1/GB Date revised: 22.11.2019

Print date: 12.05.23 Replaces Version: -/GB Substance number: 0145900000102-073

Type of value **PNEC** 

Marine sediment Type

Concentration mg/kg 3,7

Type of value **PNEC** 

Soil Type

Concentration 1,53 mg/kg

## 8.2. Exposure controls

# **Exposure controls**

Provide adequate ventilation.

#### Respiratory protection

Not necessary.

# Hand protection

Not necessary.

In case of intensive contact wear protective gloves.

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

For prolonged or repeated handling nitrile rubber gloves with textile undergloves are required.

Material thickness mm 0.5 Breakthrough time 30 min

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

#### Eye protection

Not necessary.

#### **Body protection**

Not applicable.

# SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state liquid Colour coloured Odour odourless

**Melting point** 

not determined Remarks

Freezing point

Remarks not determined

#### Boiling point or initial boiling point and boiling range

Value appr. 100 °C

Pressure 1.013 hPa Source Literature value

**Flammability** 

Not applicable

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

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 073

Version: 1 / GB Date revised: 22.11.2019

Substance number: 0145900000102-073 Replaces Version: - / GB Print date: 12.05.23

Upper and lower explosive limits

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

Source Literature value

Flash point

Remarks Not applicable

Ignition temperature

Value appr. 410 °C

Source Literature value

**Viscosity** 

Remarks

Remarks not determined

Vapour pressure

Value appr. 23 hPa

Temperature 20 °C

Method Value taken from the literature

Density and/or relative density

Remarks not determined

Relative vapour density

Remarks not determined

9.2. Other information

**Odour threshold** 

Remarks No data available

Evaporation rate (ether = 1):

Remarks not determined

Solubility in water

Remarks miscible

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

No hazardous reactions known.

# 10.5. Incompatible materials

None

#### 10.6. Hazardous decomposition products

No hazardous decomposition products known.

# SECTION 11: Toxicological information

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

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 073

Version: 1 / GB Date revised: 22.11.2019

Substance number: 0145900000102-073 Replaces Version: - / GB Print date: 12.05.23

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute oral toxicity

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

#### **Acute oral toxicity (Components)**

**Ethanediol** 

Species rat

LD50 7712 mg/kg

Acute dermal toxicity

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

# **Acute dermal toxicity (Components)**

**Ethanediol** 

Species rabbit

LD50 > 9530 mg/kg

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**

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Ingestion may cause nausea, diarrhoea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

### Other information

There are no data available on the mixture itself.

The mixture has been assessed following the additivity method of the CLP Regulation (EC) No

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 073

Version: 1 / GB Date revised: 22.11.2019

Substance number: 0145900000102-073 Replaces Version: - / GB Print date: 12.05.23

1272/2008 and classified for toxicological hazards accordingly.

# **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 and is not classified as dangerous for the environment.

### Fish toxicity (Components)

## **Ethanediol**

Species Fathead minnow (Pimephales promelas) LC50 8050 mg/l

Duration of exposure 96 h

## reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Species rainbow trout (Oncorhynchus mykiss)

LC50 0,188 mg/l

Duration of exposure 96 h

### **Daphnia toxicity (Components)**

#### **Ethanediol**

Species Daphnia magna

> 10000 mg/l

Duration of exposure 24 h

# reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Species Daphnia magna

EC50 0,126 mg/l

Duration of exposure 48 h

# Algae toxicity (Components)

# reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Species Selenastrum capricornutum

EC50 0,027 mg/l

Duration of exposure 72 h

# 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.

#### 12.7. Other adverse effects

#### **General information**

There are no data available on the mixture itself.

Date revised: 22.11.2019

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

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 073

Version: 1 / GB

Substance number: 0145900000102-073 Replaces Version: - / GB Print date: 12.05.23

# SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

### Disposal recommendations for the product

Do not allow to enter drains or water courses.

Dispose of waste according to applicable legislation.

Dispose of as hazardous waste.

### 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

| DECTION 14. ITalis               | Land transport ADR/RID  | Marine transport<br>IMDG/GGVSee  | Air transport<br>ICAO/IATA   |
|----------------------------------|---|--|--|
| 14.1. UN number                  | The product does not constitute a hazardous substance in land transport | The product does not constitute a hazardous substance in sea transport | The product does not constitute a hazardous substance in air transport |
| 14.2. UN proper shipping name    | -   | -  | -  |
| 14.3. Transport hazard class(es) | -   | -  | -  |
| Subsidiary risk                  |   | -  | -  |
| Label                            |   |  |  |
| 14.4. Packing group              | -   | -  | -  |
| Transport category               | 0   |  |  |
| 14.5. Environmental hazards      |   | no   |  |
|                                  | -   |  | -  |

## 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 Maritime transport in bulk according to IMO instruments

nc

# SECTION 15: Regulatory information

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

VOC

VOC (EU) 5 %

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 073

Version: 1 / GB Date revised: 22.11.2019

Substance number: 0145900000102-073 Replaces Version: - / GB Print date: 12.05.23

#### Other information

The product does not contain substances of very high concern (SVHC).

### 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

| пзит | i oxic ii swallowed.        |
|------|-----------------------------|
| H302 | Harmful if swallowed.       |
| H310 | Fatal in contact with skin. |

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

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. 2 Acute toxicity, Category 2
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. 1C Skin corrosion, Category 1C
Skin Sens. 1A Skin sensitization, Category 1A

STOT RE 2 Specific target organ toxicity - repeated exposure, Category 2

#### 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 King.o.B. 6pcs. MNA 078

Version: 2 / GB Date revised: 24.01.2020

Substance number: 0145900000102-078 Replaces Version: 1 / GB Print date: 12.05.23

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

### 1.1. Product identifier

Marabu Aqua Pen King.o.B. 6pcs. MNA 078

# 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/Manufacturer

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

Telephone no. +49-7141/691-0

Information provided Department product safety

by / telephone

E-mail address of person responsible

PRSI@marabu.com

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

EUH208 Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and

2-methyl-2H-isothiazol-3-one (3:1), May produce an allergic reaction.

### Supplemental information

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

Contains a biocidal product: reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

#### 2.3. Other hazards

No special hazards have to be mentioned.

## SECTION 3: Composition/information on ingredients \*\*\*

### 3.2. Mixtures

# Hazardous ingredients \*\*\*

**Ethanediol** 

CAS No. 107-21-1

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

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 078

Version: 2 / GB Date revised: 24.01.2020

Substance number: 0145900000102-078 Replaces Version: 1 / GB Print date: 12.05.23

EINECS no. 203-473-3

Registration no. 01-2119456816-28

Concentration >= 1 < 10 %

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4 H302 STOT RE 2 H373

#### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

CAS No. 55965-84-9

Concentration >= 0,001 < 0,0015 %

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 2 H330 Aquatic Chronic 1 H410 Aquatic Acute 1 H400 Skin Sens. 1A H317 Skin Corr. 1C H314 Acute Tox. 2 H310 Acute Tox. 3 H301 Eve Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)

Skin Corr. 1C H314 >= 0,6H319 >= 0.06 < 0.6Eye Irrit. 2 Skin Irrit. 2 H315 >= 0,06 < 0,6 Skin Sens. 1 H317 >= 0.0015Aquatic Acute 1 H410 M = 100Aquatic Chronic H410 M = 100

1

Eye Dam. 1 H318 >= 0,6 %

# 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

Trade name: Marabu Aqua Pen King.o.B. 6pcs. MNA 078

Version: 2 / GB Date revised: 24.01.2020

Substance number: 0145900000102-078 Replaces Version: 1 / GB Print date: 12.05.23

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

# 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.

# 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: 2011

## **Ethanediol**

List EU

Value 52  $mg/m^3$  20 ppm(V)Short term exposure limit 104  $mg/m^3$  40 ppm(V)

Skin resorption / sensibilisation: Skin; Remarks: 2000/39/EG

### **Glycerol**

List EH40

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Type WEL

Value 10 mg/m<sup>3</sup>

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 Worker
Duration of exposure Long term
Route of exposure dermal

Mode of action Systemic effects

Concentration 106 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long term
inhalative

Local effects

Concentration 7 mg/m<sup>3</sup>

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

# **Predicted No Effect Concentration (PNEC)**

**Ethanediol** 

Type of value PNEC Type Freshwater

Concentration 10 mg/l

Type of value PNEC
Type Saltwater

Concentration 1 mg/l

Type of value PNEC

Type Water (intermittent release)

Concentration 10 mg/l

Type of value PNEC

Type Sewage treatment plant (STP)

Concentration 199,5 mg/l

Type of value PNEC

Type Freshwater sediment

Concentration 37 mg/kg

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Type of value PNEC

Type Marine sediment

Concentration 3,7 mg/kg

Type of value PNEC Type Soil

Concentration 1,53 mg/kg

### 8.2. Exposure controls

### **Exposure controls**

Provide adequate ventilation.

### Respiratory protection

Not necessary.

# **Hand protection**

Not necessary.

In case of intensive contact wear protective gloves.

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

For prolonged or repeated handling nitrile rubber gloves with textile undergloves are required.

Material thickness > 0,5 mm Breakthrough time < 30 min

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

### Eye protection

Not necessary.

# **Body protection**

Not applicable.

# SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state liquid coloured Odour odourless

Melting point

Remarks not determined

Freezing point

Remarks not determined

### Boiling point or initial boiling point and boiling range

Value appr. 100 °C

Pressure 1.013 hPa Source Literature value

Flammability
Not applicable

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Upper and lower explosive limits

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

Source Literature value

Flash point

Remarks Not applicable

Ignition temperature

Value appr. 410 °C

Source Literature value

**Viscosity** 

Remarks

Remarks not determined

Vapour pressure

Value appr. 23 hPa

Temperature 20 °C

Method Value taken from the literature

Density and/or relative density

Remarks not determined

Relative vapour density

Remarks not determined

9.2. Other information

**Odour threshold** 

Remarks No data available

Evaporation rate (ether = 1):

Remarks not determined

Solubility in water

Remarks miscible

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

No hazardous reactions known.

## 10.5. Incompatible materials

None

### 10.6. Hazardous decomposition products

No hazardous decomposition products known.

# SECTION 11: Toxicological information

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# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute oral toxicity

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

#### **Acute oral toxicity (Components)**

**Ethanediol** 

Species rat

LD50 7712 mg/kg

Acute dermal toxicity

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

# Acute dermal toxicity (Components)

**Ethanediol** 

Species rabbit

LD50 > 9530 mg/kg

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**

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Ingestion may cause nausea, diarrhoea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

### Other information

There are no data available on the mixture itself.

The mixture has been assessed following the additivity method of the CLP Regulation (EC) No

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1272/2008 and classified for toxicological hazards accordingly.

# **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 and is not classified as dangerous for the environment.

# Fish toxicity (Components)

## **Ethanediol**

Species Fathead minnow (Pimephales promelas) LC50 8050 mg/l

Duration of exposure 96 h

## reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Species rainbow trout (Oncorhynchus mykiss)

LC50 0,188 mg/l

Duration of exposure 96 h

### **Daphnia toxicity (Components)**

#### **Ethanediol**

Species Daphnia magna

> 10000 mg/l

Duration of exposure 24 h

## reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Species Daphnia magna

EC50 0,126 mg/l

Duration of exposure 48 h

# Algae toxicity (Components)

# reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Species Selenastrum capricornutum

EC50 0,027 mg/l

Duration of exposure 72 h

# 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.

#### 12.7. Other adverse effects

#### **General information**

Item Numbers: 24547-1029

There are no data available on the mixture itself.

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# SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

### Disposal recommendations for the product

Do not allow to enter drains or water courses.

Dispose of waste according to applicable legislation.

Dispose of as hazardous waste.

# 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  | Marine transport<br>IMDG/GGVSee  | Air transport<br>ICAO/IATA   |
|----------------------------------|---|--|--|
| 14.1. UN number                  | The product does not constitute a hazardous substance in land transport | The product does not constitute a hazardous substance in sea transport | The product does not constitute a hazardous substance in air transport |
| 14.2. UN proper shipping name    | -   | -  | -  |
| 14.3. Transport hazard class(es) | -   | -  | -  |
| Subsidiary risk                  |   | -  | -  |
| Label                            |   |  |  |
| 14.4. Packing group              | -   | -  | -  |
| Transport category               | 0   |  |  |
| 14.5. Environmental hazards      |   | no   |  |
|                                  | -   |  | -  |

## 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 Maritime transport in bulk according to IMO instruments

nc

# SECTION 15: Regulatory information

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

VOC

VOC (EU) 5 %

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#### Other information

The product does not contain substances of very high concern (SVHC).

### 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 | l oxic if swallowed.        |
|------|-----------------------------|
| H302 | Harmful if swallowed.       |
| H310 | Fatal in contact with skin. |

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

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. 2 Acute toxicity, Category 2
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. 1C Skin corrosion, Category 1C
Skin Sens. 1A Skin sensitization, Category 1A

STOT RE 2 Specific target organ toxicity - repeated exposure, Category 2

#### 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.