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

1.1. Product identifier
Marabu Aqua Pen Metropol. Hellblau

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

Use of the substance/preparation
Paint

Identified Uses
SU21 Consumer uses: Private households (= general public = consumers)
PC9a Coatings and paints, thinners, paint removers

1.3. Details of the supplier of the safety data sheet

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

Telephone no. +49-7141/691-0
Fax no. +49-7141/691-147
Information provided by / telephone Department product safety
E-mail address of person responsible for this SDS PRSl@marabu.de

1.4. Emergency telephone number
(+49) (0)621-60-4333

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture
This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)
EUH208 Contains A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / (M)IT/MIT (3:1), May produce an allergic reaction.

Supplemental information

Labelling according to regulation (EU) No 528/2012 ***
Contains a biocidal product: A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / (M)IT/MIT (3:1)

2.3. Other hazards
No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients ***

3.2. Mixtures
Chemical characterization

Paint based on water

Hazardous ingredients

Ethanediol
CAS No. 107-21-1
EINECS no. 203-473-3
Registration no. 01-2119456816-28
Concentration \( \geq 1 \) < 10 %

Classification (Regulation (EC) No. 1272/2008)
Acute Tox. 4 H302
STOT RE 2 H373

Bronopol (INN)
CAS No. 52-51-7
EINECS no. 200-143-0
Concentration \( \geq 0.01 \) < 0.1 %

Classification (Regulation (EC) No. 1272/2008)
Eye Dam. 1 H318
Skin Irrit. 2 H315
STOT SE 3 H335
Acute Tox. 4 H302
Acute Tox. 4 H312
Aquatic Acute 1 H400
Aquatic Chronic 1 H410

Concentration limits (Regulation (EC) No. 1272/2008)
Aquatic Acute 1 H400 \( M = 10 \)
Aquatic Chronic H410 \( M = 1 \)

A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] \( (3:1) / C(M)IT/MIT (3:1) \)
CAS No. 55965-84-9
Concentration < 0.0015 %

Classification (Regulation (EC) No. 1272/2008)
Acute Tox. 3 H331
Aquatic Chronic 1 H410
Aquatic Acute 1 H400
Skin Sens. 1 H317
Skin Corr. 1B H314
Acute Tox. 3 H311
Acute Tox. 3 H301

Concentration limits (Regulation (EC) No. 1272/2008)
Skin Corr. 1B H314 \( \geq 0.6 \)
Eye Irrit. 2 H319 \( \leq 0.06 < 0.6 \)
Skin Irrit. 2 H315 \( \leq 0.06 < 0.6 \)
Skin Sens. 1 H317 \( \geq 0.0015 \)

Further ingredients ***

Glycerol
CAS No. 56-81-5
EINECS no. 200-289-5
Concentration \( \geq 10 \) < 25 % [3]
SECTION 4: First aid measures

4.1. Description of first aid measures

**After skin contact**
Wash with plenty of water and soap. Do NOT use solvents or thinners.

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

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

4.2. Most important symptoms and effects, both acute and delayed
Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed

**Hints for the physician / treatment**
Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

**Suitable extinguishing media**
Carbon dioxide, Foam, Sand, Water

5.2. Special hazards arising from the substance or mixture
In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO2); dense black smoke

5.3. Advice for firefighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
No particular measures required.

6.2. Environmental precautions
No particular measures required.

6.3. Methods and material for containment and cleaning up
Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections
Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage
7.1. Precautions for safe handling

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

Advice on protection against fire and explosion
No special measures required.

Classification of fires / temperature class / Ignition group / Dust explosion class
Temperature class T2

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Store in frostfree conditions.

Storage class according to TRGS 510
Storage class according to TRGS 510

7.3. Specific end use(s)

Paint

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Ethanediol
List EH40
Type WEL
Value 10 mg/m³
Skin resorption / sensibilisation: Sk; Status: 2011

Glycerol
List EH40
Type WEL
Value 10 mg/m³
Status: 2011

Other information
There are not known any further control parameters.

Derived No/Minimal Effect Levels (DNEL/DMEL)

Ethanediol
Type of value Derived No Effect Level (DNEL)
Reference group Worker
Duration of exposure Long term
Route of exposure inhalative
Mode of action Local effects
Concentration 35 mg/m³

Type of value Derived No Effect Level (DNEL)
Reference group Worker
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 Consumer
Trade name: Marabu Aqua Pen Metropol. Hellblau

Duration of exposure: Long term
Route of exposure: inhalative
Mode of action: 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

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.

**SECTION 9: Physical and chemical properties**

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

Form: liquid
Colour: coloured
Odour: odourless
Odour threshold: 
Remarks: No data available
### Melting point
- Remarks: not determined

### Freezing point
- Remarks: not determined

### Initial boiling point and boiling range
- Value: appr. 100 °C
- Pressure: 1.013 hPa
- Source: Literature value

### Flash point
- Remarks: Not applicable

### Evaporation rate (ether = 1): 
- Remarks: not determined

### Flammability (solid, gas)
- Not applicable

### Upper/lower flammability or explosive limits
- Lower explosion limit: appr. 3.2 %(V)
- Upper explosion limit: appr. 53 %(V)
- Source: Literature value

### Vapour pressure
- Value: appr. 23 hPa
- Temperature: 20 °C
- Method: Value taken from the literature

### Vapour density
- Remarks: not determined

### Density
- Remarks: not determined

### Solubility in water
- Remarks: miscible

### Ignition temperature
- Value: appr. 410 °C
- Source: Literature value

### Viscosity
- Remarks: not determined
- Remarks: not determined

9.2. Other information
- Other information: None known

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity
- None

#### 10.2. Chemical stability
- No hazardous reactions known.

#### 10.3. Possibility of hazardous reactions
- No hazardous reactions known.

#### 10.4. Conditions to avoid
10.5. Incompatible materials
None

10.6. Hazardous decomposition products
No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

- **Acute oral toxicity**
  Remarks: Based on available data, the classification criteria are not met.

- **Acute dermal toxicity**
  Remarks: Based on available data, the classification criteria are not met.

- **Acute inhalational toxicity**
  Remarks: Based on available data, the classification criteria are not met.

- **Skin corrosion/irritation**
  Remarks: Based on available data, the classification criteria are not met.

- **Serious eye damage/irritation**
  Remarks: Based on available data, the classification criteria are not met.

- **Sensitization**
  Remarks: Based on available data, the classification criteria are not met.

- **Mutagenicity**
  Remarks: Based on available data, the classification criteria are not met.

- **Reproductive toxicity**
  Remarks: Based on available data, the classification criteria are not met.

- **Carcinogenicity**
  Remarks: Based on available data, the classification criteria are not met.

- **Specific Target Organ Toxicity (STOT)**
  - **Single exposure**
    Remarks: Based on available data, the classification criteria are not met.
  - **Repeated exposure**
    Remarks: Based on available data, the classification criteria are not met.

- **Aspiration hazard**
  Remarks: Based on available data, the classification criteria are not met.

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

**Other information**
There are no data available on the mixture itself.
The mixture has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and not classified.

SECTION 12: Ecological information

12.1. Toxicity

**General information**
There are no data available on the mixture itself. Do not allow to enter drains or water courses. The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008.
and is not classified as dangerous for the environment.

12.2. Persistence and degradability
General information
There are no data available on the mixture itself.

12.3. Bioaccumulative potential
General information
There are no data available on the mixture itself.

12.4. Mobility in soil
General information
There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment
General information
There are no data available on the mixture itself.

12.6. Other adverse effects
General information
There are no data available on the mixture itself.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Disposal recommendations for the product
The product can be placed with other household refuse. Small residues in containers can be washed-out with water and put into the drainage system.

Disposal recommendations for packaging
Packaging that cannot be cleaned should be disposed off as product waste. Completely emptied packagings can be given for recycling.

SECTION 14: Transport information

Land transport ADR/RID
Non-dangerous goods

14.1. UN number
UN -

14.2. UN proper shipping name
-

14.3. Transport hazard class(es)
Class -
Label -

14.4. Packing group
Packing group -
Transport category 0

14.5. Environmental hazards
-

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

14.1. UN number
UN -

14.2. UN proper shipping name
-
14.3. Transport hazard class(es)
   Class -
   Subsidiary risk -

14.4. Packing group
   Packing group -

14.5. Environmental hazards
   no

Air transport ICAO/IATA
   The product does not constitute a hazardous substance in air transport.
   14.1. UN number
       UN -
   14.2. UN proper shipping name
   14.3. Transport hazard class(es)
       Class -
       Subsidiary risk -
   14.4. Packing group
       Packing group -
   14.5. Environmental hazards
       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. Transport in bulk according to Annex II of Marpol and the IBC Code
       no

SECTION 15: Regulatory information ***

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
   VOC ***
       VOC (EU) 0 %
   Other information
       All components are contained in the TSCA inventory or exempted.
       All components are contained in the AICS inventory.
       All components are contained in the PICCS inventory.
       All components are contained in the DSL inventory.
       All components are contained in the IECSC inventory.
       All components are contained in the NZIOC inventory.
       All components are contained in the ENCS inventory.
       All components are contained in the ECL inventory.

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

SECTION 16: Other information
   Hazard statements listed in Chapter 3
   H301 Toxic if swallowed.
   H302 Harmful if swallowed.
   H311 Toxic in contact with skin.
Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: Marabu Aqua Pen Metropol. Hellblau

Substance number: 014500103-03

Version: 2 / GB

Replaces Version: 1 / GB

Date revised: 03.03.2017

Print date: 17.03.17

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

CLP categories listed in Chapter 3

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

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

The information in this Safety Data Sheet is based on the present state of knowledge and current legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

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

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