



Trade name: Marabu-Aqua-Linoldruckfb. 006 250ml

Version: 10 / GB

Date revised: 31.10.2018

Substance number: 151013006

Replaces Version: 9 / GB

Print date: 04.11.18

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

### **1.1. Product identifier**

Marabu-Aqua-Linoldruckfb. 006 250ml

### **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

Department product safety

by / telephone

### **1.4. Emergency telephone number**

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

## **SECTION 2: Hazards identification \*\*\***

### **2.1. Classification of the substance or mixture**

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

### **2.2. Label elements**

#### **Labelling according to regulation (EC) No 1272/2008**

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

EUH208 Contains

1,2-Benzisothiazol-3(2H)-one, Chlorocresol, May produce an allergic reaction.

\*\*\*

### **2.3. Other hazards**

No special hazards have to be mentioned.

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

### **3.2. Mixtures**

#### **Chemical characterization**

Printing ink based on synthetic resins and on water

#### **Hazardous ingredients \*\*\***

##### **epsilon-Caprolactam**

CAS No. 105-60-2

EINECS no. 203-313-2

Registration no. 01-2119457029-36

Concentration

>= 1 < 10 %

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

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

Acute Tox. 4	H332
Acute Tox. 4	H302
Eye Irrit. 2	H319
STOT SE 3	H335
Skin Irrit. 2	H315

**Chlorocresol**

CAS No. 59-50-7

EINECS no. 200-431-6

Concentration &gt;= 0,1 &lt; 1 %

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

Acute Tox. 4	H302
Eye Dam. 1	H318
Skin Sens. 1	H317
Aquatic Acute 1	H400
Acute Tox. 4	H312

**1,2-Benzisothiazol-3(2h)-one**

CAS No. 2634-33-5

EINECS no. 220-120-9

Concentration &lt; 0,05 %

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

Aquatic Acute 1	H400
Skin Sens. 1	H317
Acute Tox. 4	H302
Skin Irrit. 2	H315
Eye Dam. 1	H318
Acute Tox. 2	H330
Aquatic Chronic 2	H411

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

Skin Sens. 1 H317 &gt;= 0,05

**Further ingredients \*\*\*****Propane-1,2-diol**

CAS No. 57-55-6

EINECS no. 200-338-0

Registration no. 01-2119456809-23

Concentration &gt;= 1 &lt; 10 % [3]

**Glycerol**

CAS No. 56-81-5

EINECS no. 200-289-5

Concentration &gt;= 1 &lt; 10 % [3]

\*  
\*  
\*

[3] Substance with occupational exposure limits

**SECTION 4: First aid measures****4.1. Description of first aid measures**



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#### **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 (CO<sub>2</sub>); dense black smoke; Nitrogen oxides (NO<sub>x</sub>)

### **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**



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### 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 \*\*\*

##### Glycerol

List	EH40	
Type	WEL	
Value	10	mg/m <sup>3</sup>
Status:	2011	

##### Propane-1,2-diol

List	EH40	
Type	OES	
Value	10	mg/m <sup>3</sup>
Status:	2011	

#### Derived No/Minimal Effect Levels (DNEL/DMEL)

##### epsilon-Caprolactam

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	5	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	10	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	2,5	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	5	mg/m <sup>3</sup>

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



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Concentration 8,55 mg/kg/d

**Predicted No Effect Concentration (PNEC)**

**epsilon-Caprolactam**

Type of value	PNEC	
Type	Freshwater	
Concentration	2	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,2	mg/l
Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	1	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	1737	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	18,7	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	2,55	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**

<b>Form</b>	Pasty
<b>Colour</b>	coloured
<b>Odour</b>	odourless
<b>Odour threshold</b>	
Remarks	No data available
<b>pH value</b>	
Value	8 to 10
Temperature	20 °C
Method	WTW PH 340
<b>Melting point</b>	
Remarks	not determined
<b>Freezing point</b>	
Remarks	not determined
<b>Initial boiling point and boiling range</b>	
Value	appr. 100 °C
Pressure	1.013 hPa
Source	Literature value



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**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. 2,6 %(V)

Upper explosion limit appr. 12,5 %(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**

Value 1,530 g/cm<sup>3</sup>

Temperature 20 °C

Method DIN EN ISO 2811

**Solubility in water**

Remarks miscible

**Ignition temperature**

Value appr. 371 °C

Source Literature value

**Viscosity**

Value 38000 to 58000 mPa.s

Temperature 20 °C

Method Brookfield

**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**

**11.1. Information on toxicological effects**



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**Acute dermal toxicity**

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

**Acute inhalational toxicity**

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

**Skin corrosion/irritation**

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

**Serious eye damage/irritation**

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

**Sensitization**

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

**Mutagenicity**

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

**Reproductive toxicity**

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

**Carcinogenicity**

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

**Specific Target Organ Toxicity (STOT)**

**Single exposure**

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

**Repeated exposure**

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

**Aspiration hazard**

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

**Experience in practice**

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 GHS/CLP Regulation (EC) No 1272/2008.

**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**



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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 -





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**14.5. Environmental hazards**

no

**Air transport ICAO/IATA**

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

**14.1. UN number**

UN -

**14.2. UN proper shipping name**

-

**14.3. Transport hazard class(es)**

Class -

Subsidiary risk -

**14.4. Packing group**

Packing group -

**14.5. Environmental hazards**

-

**Information for all modes of transport**

**14.6. Special precautions for user**

Transport within the user's premises:

Always transport in closed containers that are upright and secure.

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

**Other information**

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

no

**SECTION 15: Regulatory information**

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

**VOC**

VOC (EU)	9,31	%	
VOC (EU)		142,4	g/l

**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**

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

**CLP categories listed in Chapter 3**

Acute Tox. 2	Acute toxicity, Category 2
Acute Tox. 4	Acute toxicity, Category 4

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Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
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.