



Trade name: Marabu Pearl Pen 25ml

Version: 2 / GB

Date revised: 03.11.2022

Substance number: 18090009531

Replaces Version: 1 / GB

Print date: 03.11.22

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

### **1.1. Product identifier**

Marabu Pearl Pen 25ml

### **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 by / telephone Department product safety

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

#### **Chemical characterization**

Paint based on water



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**Hazardous ingredients****2-Butoxyethanol**

CAS No.	111-76-2			
EINECS no.	203-905-0			
Registration no.	01-2119475108-36			
Concentration	>= 1	<	10	%

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

Skin Irrit. 2	H315
Acute Tox. 4	H332
Acute Tox. 4	H312
Acute Tox. 4	H302
Eye Irrit. 2	H319

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

CAS No.	2634-33-5			
EINECS no.	220-120-9			
Concentration		<	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	>= 0,05
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**Pyrrithione zinc**

CAS No.	13463-41-7			
EINECS no.	236-671-3			
Registration no.	01-2119511196-46			
Concentration	>= 0,01	<	0,025	%

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

Acute Tox. 3	H301
Acute Tox. 2	H330
Eye Dam. 1	H318
Aquatic Acute 1	H400
Aquatic Chronic 1	H410
STOT RE 1	H372
Repr. 1B	H360D

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

Aquatic Acute 1	H400	M = 1000
Aquatic Chronic 1	H410	M = 10
1		

**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



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Aquatic Acute 1	H400
Skin Sens. 1A	H317
Skin Corr. 1C	H314
Acute Tox. 2	H310
Acute Tox. 3	H301
Eye Dam. 1	H318

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

Skin Corr. 1C	H314	>= 0,6
Eye Irrit. 2	H319	>= 0,06 < 0,6
Skin Irrit. 2	H315	>= 0,06 < 0,6
Skin Sens. 1	H317	>= 0,0015
Aquatic Acute 1	H410	M = 100
Aquatic Chronic 1	H410	M = 100
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**

In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); 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**



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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**

Classification of fires B (Combustible liquid substances)

**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**

**2-Butoxyethanol**

List	EH40		
Type	WEL		
Value		25	ppm(V)
Short term exposure limit		50	ppm(V)
Skin resorption / sensibilisation: Sk; Status: 2011			

**Other information**

There are not known any further control parameters.

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

**2-Butoxyethanol**

Type of value	Derived No Effect Level (DNEL)		
Reference group	Worker		
Duration of exposure	Acute		
Route of exposure	dermal		
Mode of action	Systemic effects		
Concentration	89		mg/kg

Type of value	Derived No Effect Level (DNEL)		
Reference group	Worker		
Duration of exposure	Short term		
Route of exposure	inhalative		
Mode of action	Systemic effects		
Concentration	1091		mg/m <sup>3</sup>

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Type of value Derived No Effect Level (DNEL)  
 Reference group General Population  
 Duration of exposure Short term  
 Route of exposure inhalative  
 Mode of action Local effects  
 Concentration 147 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 125 mg/kg

Type of value Derived No Effect Level (DNEL)  
 Reference group Worker  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action Systemic effects  
 Concentration 98 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)  
 Reference group Consumer  
 Duration of exposure Acute  
 Route of exposure dermal  
 Mode of action Systemic effects  
 Concentration 89,5 mg/kg

Type of value Derived No Effect Level (DNEL)  
 Reference group Consumer  
 Duration of exposure Acute  
 Route of exposure inhalative  
 Mode of action Systemic effects  
 Concentration 426 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)  
 Reference group Consumer  
 Duration of exposure Acute  
 Route of exposure oral  
 Mode of action Systemic effects  
 Concentration 26,7 mg/kg

Type of value Derived No Effect Level (DNEL)  
 Reference group Consumer  
 Duration of exposure Acute  
 Route of exposure inhalative  
 Mode of action Local effects  
 Concentration 147 mg/kg

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 75 mg/kg

Type of value Derived No Effect Level (DNEL)  
 Reference group Consumer



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Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	59	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	
Concentration	6,3	mg/kg

**Predicted No Effect Concentration (PNEC)**

**2-Butoxyethanol**

Type of value	PNEC	
Type	Freshwater	
Concentration	8,8	mg/l
Type of value	PNEC	
Type	Soil	
Concentration	2,8	mg/kg
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	34,6	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	463	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,88	mg/l
Type of value	PNEC	
Type	Marine sediment	
Concentration	3,46	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.



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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**

<b>Form</b>	liquid
<b>Colour</b>	coloured
<b>Odour</b>	odourless
<b>Odour threshold</b>	
Remarks	No data available
<b>Melting point</b>	
Remarks	not determined
<b>Freezing point</b>	
Remarks	not determined
<b>Initial boiling point and boiling range</b>	
Remarks	Not applicable
<b>Flash point</b>	
Remarks	Not applicable
<b>Evaporation rate (ether = 1) :</b>	
Remarks	not determined
<b>Flammability (solid, gas)</b>	
Remarks	Not applicable
<b>Upper/lower flammability or explosive limits</b>	
Remarks	not determined
<b>Vapour pressure</b>	
Value	appr. 23 hPa
Temperature	20 °C
Method	Value taken from the literature
<b>Vapour density</b>	
Remarks	not determined
<b>Density</b>	
Remarks	not determined
<b>Solubility in water</b>	
Remarks	miscible
<b>Ignition temperature</b>	
Remarks	not determined
<b>Viscosity</b>	
Remarks	
Remarks	not determined

**9.2. Other information**



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**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****11.1. Information on toxicological effects****Acute oral toxicity**

ATE	>	2.000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		

**Acute oral toxicity (Components)****Pyrithione zinc**

ATE	221	mg/kg
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**1,2-Benzisothiazol-3(2h)-one**

Species	rat	
LD50	1193	mg/kg

**2-Butoxyethanol**

ATE	1200	mg/kg
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**Acute dermal toxicity**

ATE	>	2.000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		

**Acute dermal toxicity (Components)****1,2-Benzisothiazol-3(2h)-one**

Species	rat	
LD50	4115	mg/kg

**Acute inhalational toxicity**

ATE	>	20	mg/l
Administration/Form	Vapors		
Method	calculated value (Regulation (EC) No. 1272/2008)		

ATE	>	5	mg/l
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Administration/Form	Dust/Mist		
Method	calculated value (Regulation (EC) No. 1272/2008)		

Remarks	Based on available data, the classification criteria are not met.		
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**Acute inhalative toxicity (Components)****Pyrithione zinc**





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ATE	0,14	mg/l
Administration/Form	Dust/Mist	

**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.

**Sensitization (Components)****2-Butoxyethanol**

Route of exposure	dermal
Species evaluation	guinea pig non-sensitizing

**Mutagenicity**

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

**Reproductive toxicity**

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

**Carcinogenicity**

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

**Specific Target Organ Toxicity (STOT)****Single exposure**

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

**Repeated exposure**

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

**Aspiration hazard**

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

**Experience in practice**

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

**Other information**

There are no data available on the mixture itself.

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

Species	rainbow trout (Oncorhynchus mykiss)
LC50	0,14 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



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Duration of exposure 96 h

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

Species rainbow trout (*Oncorhynchus mykiss*)  
 LC50 2,18 mg/l  
 Duration of exposure 96 h

**Daphnia toxicity (Components)****Pyrithione zinc**

Species *Daphnia magna*  
 EC50 0,05 mg/l  
 Duration of exposure 48 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

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

Species *Daphnia magna*  
 EC50 2,94 mg/l  
 Duration of exposure 48 h

**Algae toxicity (Components)****Pyrithione zinc**

Species *Selenastrum capricornutum*  
 IC50 0,067 mg/l  
 Duration of exposure 72 h

**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

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

Species *Pseudokirchneriella subcapitata*  
 ErC50 0,11 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.

**12.6. Other adverse effects****General information**

There are no data available on the mixture itself.

**SECTION 13: Disposal considerations**



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### 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 IMDG/GGVSee	Air transport 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. 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) 2,9 %

#### Other information

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



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### Other information

All components are contained in the TSCA inventory or exempted.  
 All components are contained in the DSL 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.
H310	Fatal in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H360D	May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

### 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
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
Repr. 1B	Reproductive toxicity, Category 1B
Skin Corr. 1C	Skin corrosion, Category 1C
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1A	Skin sensitization, Category 1A
STOT RE 1	Specific target organ toxicity - repeated exposure, Category 1

### 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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