

MSDS for #21043 - MARABU FINELNR GRPHX  
 Safety data sheet in accordance with regulation (EC) No 1907/2006



Trade name: Marabu Fineliner Colour Hyp 24pcs MNA azure blue

Version: 2 / GB

Date revised: 24.01.2020

Substance number: 0146900000103-095

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 Fineliner Colour Hyp 24pcs MNA azure blue

### **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 \*\*\***

Ethenediol

CAS No. 107-21-1



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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

**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  $\geq$  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  
Eye Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)  
Skin Corr. 1C H314  $\geq$  0,6  
Eye Irrit. 2 H319  $\geq$  0,06 < 0,6  
Skin Irrit. 2 H315  $\geq$  0,06 < 0,6  
Skin Sens. 1 H317  $\geq$  0,0015  
Aquatic Acute 1 H410 M = 100  
Aquatic Chronic 1 H410 M = 100  
1  
Eye Dam. 1 H318  $\geq$  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 (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

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

##### Ethenediol

|   |      |                   |  |  |
|---|------|-------------------|--|--|
| List  | EH40 |                   |  |  |
| Type  | WEL  |                   |  |  |
| Value                                       | 10   | mg/m <sup>3</sup> |  |  |
| Skin resorption / sensibilisation: Sk: 2011 |      |                   |  |  |

##### Ethenediol

|  |     |                   |    |        |
|--|-----|-------------------|----|--------|
| List   | EU  |                   |    |        |
| Value  | 52  | mg/m <sup>3</sup> | 20 | ppm(V) |
| Short term exposure limit                                    | 104 | mg/m <sup>3</sup> | 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      | Worker                         |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | 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      | Consumer                       |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | 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

|   |                  |     |    |
|---|------------------|-----|----|
| <b>Physical state</b>   | liquid           |     |    |
| <b>Colour</b>   | coloured         |     |    |
| <b>Odour</b>  | odourless        |     |    |
| <b>Melting point</b>  |                  |     |    |
| Remarks   | not determined   |     |    |
| <b>Freezing point</b>   |                  |     |    |
| Remarks   | not determined   |     |    |
| <b>Boiling point or initial boiling point and boiling range</b> |                  |     |    |
| Value   | appr. 100        |     | °C |
| Pressure  | 1.013            | hPa |    |
| Source  | Literature value |     |    |
| <b>Flammability</b>   |                  |     |    |
| 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 ( <i>Pimephales promelas</i> ) |   |      |
| 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 ( <i>Oncorhynchus mykiss</i> ) |   |      |
| 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.



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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 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 Maritime transport in bulk according to IMO instruments

no

## 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 | 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 Fineliner Colour Hyp 24pcs MNA raspberry

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

### **1.1. Product identifier**

Marabu Fineliner Colour Hyp 24pcs MNA raspberry

### **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**

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

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

Aquatic Chronic 3 H412

### **2.2. Label elements**

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

#### **Hazard statements \*\*\***

H412

Harmful to aquatic life with long lasting effects.

#### **Precautionary statements \*\*\***

P273

Avoid release to the environment.

P501.9

Dispose of contents/container as problematic waste.

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.



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

### 3.2. Mixtures

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

##### Ethenediol

|  |                  |   |      |   |
|--|------------------|---|------|---|
| CAS No.  | 107-21-1         |   |      |   |
| 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 |   |

##### 3,4,5,6-tetrachloro-2-(1,4,5,8-tetrabromo-6-hydroxy-3-oxoxanthen-9-yl)benzoic acid

|  |                   |   |      |   |
|--|-------------------|---|------|---|
| CAS No.  | 18472-87-2        |   |      |   |
| EINECS no.                                     | 242-355-6         |   |      |   |
| Concentration                                  | >= 1              | < | 2,5  | % |
| Classification (Regulation (EC) No. 1272/2008) |                   |   |      |   |
|  | Eye Irrit. 2      |   | H319 |   |
|  | Aquatic Chronic 2 |   | H411 |   |

##### 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   |   |
|  | 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



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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; Hydrogen chloride (HCl); Hydrogen bromide (HBr)

#### 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**



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### 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<sup>3</sup> 20 ppm(V)  
 Short term exposure limit 104 mg/m<sup>3</sup> 40 ppm(V)  
 Skin resorption / sensibilisation: Skin; Remarks: 2000/39/EG

##### Glycerol

List EH40  
 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 Long term  
 Route of exposure inhalative  
 Mode of action 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 Consumer  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action 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



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|               |                              |  |       |
|---------------|------------------------------|--|-------|
| 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.

**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**



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

|   |                                 |     |      |
|---|---------------------------------|-----|------|
| <b>Physical state</b>   | liquid                          |     |      |
| <b>Colour</b>   | coloured                        |     |      |
| <b>Odour</b>  | odourless                       |     |      |
| <b>Melting point</b>  |                                 |     |      |
| Remarks   | not determined                  |     |      |
| <b>Freezing point</b>   |                                 |     |      |
| Remarks   | not determined                  |     |      |
| <b>Boiling point or initial boiling point and boiling range</b> |                                 |     |      |
| Value   | appr. 100                       |     | °C   |
| Pressure  | 1.013                           | hPa |      |
| Source  | Literature value                |     |      |
| <b>Flammability</b>   |                                 |     |      |
| Not applicable  |                                 |     |      |
| <b>Upper and lower explosive limits</b>                         |                                 |     |      |
| Lower explosion limit   | appr. 3,2                       |     | %(V) |
| Upper explosion limit   | appr. 53                        |     | %(V) |
| Source  | Literature value                |     |      |
| <b>Flash point</b>  |                                 |     |      |
| Remarks   | Not applicable                  |     |      |
| <b>Ignition temperature</b>                                     |                                 |     |      |
| Value   | appr. 410                       |     | °C   |
| Source  | Literature value                |     |      |
| <b>Viscosity</b>  |                                 |     |      |
| Remarks   |                                 |     |      |
| Remarks   | not determined                  |     |      |
| <b>Vapour pressure</b>  |                                 |     |      |
| Value   | appr. 23                        |     | hPa  |
| Temperature   | 20                              | °C  |      |
| Method  | Value taken from the literature |     |      |
| <b>Density and/or relative density</b>                          |                                 |     |      |
| Remarks   | not determined                  |     |      |
| <b>Relative vapour density</b>                                  |                                 |     |      |
| Remarks   | not determined                  |     |      |
| <b>9.2. Other information</b>                                   |                                 |     |      |
| <b>Odour threshold</b>  |                                 |     |      |
| Remarks   | No data available               |     |      |
| <b>Evaporation rate (ether = 1) :</b>                           |                                 |     |      |
| Remarks   | not determined                  |     |      |
| <b>Solubility in water</b>                                      |                                 |     |      |
| Remarks   | miscible                        |     |      |
| <b>Other information</b>  |                                 |     |      |
| None known  |                                 |     |      |

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

None





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**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 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)**

**Ethenediol**

|         |     |      |       |
|---------|-----|------|-------|
| Species | rat |      |       |
| LD50    |     | 7712 | mg/kg |

**Acute dermal toxicity**

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

**Acute dermal toxicity (Components)**

**Ethenediol**

|         |        |      |       |
|---------|--------|------|-------|
| 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**



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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 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 classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

**Fish toxicity (Components)**

**Ethanediol**

|                      |   |   |      |
|----------------------|---|---|------|
| Species              | Fathead minnow ( <i>Pimephales promelas</i> ) |   |      |
| 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 ( <i>Oncorhynchus mykiss</i> ) |   |      |
| 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**



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**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.

**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 IMDG/GGVSee   | Air transport ICAO/IATA  |
|---|---|--|--|
| <b>14.1. UN number</b>                  | 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.- |
| <b>14.2. UN proper shipping name</b>    | -   | -  | -  |
| <b>14.3. Transport hazard class(es)</b> | -   | -  | -  |
| Subsidiary risk                         |   | -  | -  |
| Label                                   |   |  |  |
| <b>14.4. Packing group</b>              | -   | -  | -  |
| Transport category                      | 0   |  |  |
| <b>14.5. Environmental hazards</b>      | -   | no   | -  |

**Information for all modes of transport**

**14.6. Special precautions for user**

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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

no

### SECTION 15: Regulatory information

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

##### VOC

VOC (EU) 5 %

##### 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.   |
| H319 | Causes serious eye irritation.                                     |
| 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.              |
| 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                                     |
| 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

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

### **1.1. Product identifier**

Marabu Fineliner Colour Hyp 24pcs MNA pink

### **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**

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

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

Aquatic Chronic 3

H412

### **2.2. Label elements**

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

##### **Hazard statements**

H412

Harmful to aquatic life with long lasting effects.

##### **Precautionary statements**

P273

Avoid release to the environment.

P501.9

Dispose of contents/container as problematic waste.

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.



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

### 3.2. Mixtures

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

##### Ethenediol

|  |                  |   |      |   |
|--|------------------|---|------|---|
| CAS No.  | 107-21-1         |   |      |   |
| 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 |   |

##### 3,4,5,6-tetrachloro-2-(1,4,5,8-tetrabromo-6-hydroxy-3-oxoxanthen-9-yl)benzoic acid

|  |                   |   |      |   |
|--|-------------------|---|------|---|
| CAS No.  | 18472-87-2        |   |      |   |
| EINECS no.                                     | 242-355-6         |   |      |   |
| Concentration                                  | >= 2,5            | < | 10   | % |
| Classification (Regulation (EC) No. 1272/2008) |                   |   |      |   |
|  | Eye Irrit. 2      |   | H319 |   |
|  | Aquatic Chronic 2 |   | H411 |   |

##### 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   |   |
|  | 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



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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; Hydrogen chloride (HCl); Hydrogen bromide (HBr)

#### 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**





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### 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<sup>3</sup> 20 ppm(V)  
 Short term exposure limit 104 mg/m<sup>3</sup> 40 ppm(V)  
 Skin resorption / sensibilisation: Skin; Remarks: 2000/39/EG

##### Glycerol

List EH40  
 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 Long term  
 Route of exposure inhalative  
 Mode of action 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 Consumer  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action 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



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|               |                              |  |       |
|---------------|------------------------------|--|-------|
| 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.

### 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



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

|   |                                 |     |      |
|---|---------------------------------|-----|------|
| <b>Physical state</b>   | liquid                          |     |      |
| <b>Colour</b>   | coloured                        |     |      |
| <b>Odour</b>  | odourless                       |     |      |
| <b>Melting point</b>  |                                 |     |      |
| Remarks   | not determined                  |     |      |
| <b>Freezing point</b>   |                                 |     |      |
| Remarks   | not determined                  |     |      |
| <b>Boiling point or initial boiling point and boiling range</b> |                                 |     |      |
| Value   | appr. 100                       |     | °C   |
| Pressure  | 1.013                           | hPa |      |
| Source  | Literature value                |     |      |
| <b>Flammability</b>   |                                 |     |      |
| Not applicable  |                                 |     |      |
| <b>Upper and lower explosive limits</b>                         |                                 |     |      |
| Lower explosion limit   | appr. 3,2                       |     | %(V) |
| Upper explosion limit   | appr. 53                        |     | %(V) |
| Source  | Literature value                |     |      |
| <b>Flash point</b>  |                                 |     |      |
| Remarks   | Not applicable                  |     |      |
| <b>Ignition temperature</b>                                     |                                 |     |      |
| Value   | appr. 410                       |     | °C   |
| Source  | Literature value                |     |      |
| <b>Viscosity</b>  |                                 |     |      |
| Remarks   |                                 |     |      |
| Remarks   | not determined                  |     |      |
| <b>Vapour pressure</b>  |                                 |     |      |
| Value   | appr. 23                        |     | hPa  |
| Temperature   | 20                              | °C  |      |
| Method  | Value taken from the literature |     |      |
| <b>Density and/or relative density</b>                          |                                 |     |      |
| Remarks   | not determined                  |     |      |
| <b>Relative vapour density</b>                                  |                                 |     |      |
| Remarks   | not determined                  |     |      |
| <b>9.2. Other information</b>                                   |                                 |     |      |
| <b>Odour threshold</b>  |                                 |     |      |
| Remarks   | No data available               |     |      |
| <b>Evaporation rate (ether = 1) :</b>                           |                                 |     |      |
| Remarks   | not determined                  |     |      |
| <b>Solubility in water</b>                                      |                                 |     |      |
| Remarks   | miscible                        |     |      |
| <b>Other information</b>  |                                 |     |      |
| None known  |                                 |     |      |

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

None



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### 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 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)

##### Ethenediol

|         |     |      |       |
|---------|-----|------|-------|
| Species | rat |      |       |
| LD50    |     | 7712 | mg/kg |

#### Acute dermal toxicity

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

#### Acute dermal toxicity (Components)

##### Ethenediol

|         |        |      |       |
|---------|--------|------|-------|
| 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)

|                        |   |
|------------------------|---|
| <b>Single exposure</b> |   |
| Remarks                | Based on available data, the classification criteria are not met. |

|                          |   |
|--------------------------|---|
| <b>Repeated exposure</b> |   |
| Remarks                  | Based on available data, the classification criteria are not met. |

#### Aspiration hazard



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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 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 classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

**Fish toxicity (Components)**

**Ethanediol**

|                      |   |   |      |
|----------------------|---|---|------|
| Species              | Fathead minnow ( <i>Pimephales promelas</i> ) |   |      |
| 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 ( <i>Oncorhynchus mykiss</i> ) |   |      |
| 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**



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**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.

**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 IMDG/GGVSee   | Air transport ICAO/IATA  |
|---|---|--|--|
| <b>14.1. UN number</b>                  | 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.- |
| <b>14.2. UN proper shipping name</b>    | -   | -  | -  |
| <b>14.3. Transport hazard class(es)</b> | -   | -  | -  |
| Subsidiary risk                         |   | -  | -  |
| Label                                   |   |  |  |
| <b>14.4. Packing group</b>              | -   | -  | -  |
| Transport category                      | 0   |  |  |
| <b>14.5. Environmental hazards</b>      | -   | no   | -  |

**Information for all modes of transport**

**14.6. Special precautions for user**

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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

no

### SECTION 15: Regulatory information

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

##### VOC

VOC (EU) 5 %

##### 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.   |
| H319 | Causes serious eye irritation.                                     |
| 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.              |
| 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                                     |
| 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



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

### **1.1. Product identifier**

Marabu Fineliner Colour Hyp 24pcs MNA rose pink

### **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

Disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl)benzoate, 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



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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

**Disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl)benzoate**

CAS No. 17372-87-1  
 EINECS no. 241-409-6  
 Concentration  $\geq 0,1$  < 1 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Skin Sens. 1 H317  
 Eye Irrit. 2 H319

**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  $\geq 0,001$  < 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  
 Eye Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)  
 Skin Corr. 1C H314  $\geq 0,6$   
 Eye Irrit. 2 H319  $\geq 0,06 < 0,6$   
 Skin Irrit. 2 H315  $\geq 0,06 < 0,6$   
 Skin Sens. 1 H317  $\geq 0,0015$   
 Aquatic Acute 1 H410 M = 100  
 Aquatic Chronic 1 H410 M = 100  
 Eye Dam. 1 H318  $\geq 0,6$  %

**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**



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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**

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  |



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Value 10 mg/m<sup>3</sup>  
 Skin resorption / sensibilisation: Sk: 2011

**Ethanediol**

List EU  
 Value 52 mg/m<sup>3</sup> 20 ppm(V)  
 Short term exposure limit 104 mg/m<sup>3</sup> 40 ppm(V)  
 Skin resorption / sensibilisation: Skin; Remarks: 2000/39/EG

**Glycerol**

List EH40  
 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 Long term  
 Route of exposure inhalative  
 Mode of action 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 Consumer  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action 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



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|               |                              |       |
|---------------|------------------------------|-------|
| 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.

### 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    |
| Colour         | coloured  |
| Odour          | odourless |
| Melting point  |           |



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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

**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.



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#### 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 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)

###### Ethenediol

|         |     |      |       |
|---------|-----|------|-------|
| Species | rat |      |       |
| LD50    |     | 7712 | mg/kg |

##### Acute dermal toxicity

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

##### Acute dermal toxicity (Components)

###### Ethenediol

|         |        |      |       |
|---------|--------|------|-------|
| 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,



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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 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 ( <i>Pimephales promelas</i> ) |   |      |
| 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 ( <i>Oncorhynchus mykiss</i> ) |   |      |
| 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              | Selastrum 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**



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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.

## 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 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 Maritime transport in bulk according to IMO instruments



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no

## SECTION 15: Regulatory information

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

#### VOC

VOC (EU) 5 %

#### 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.   |
| H319 | Causes serious eye irritation.                                     |
| 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                                 |
| Eye Irrit. 2      | Eye irritation, Category 2                                     |
| Skin Corr. 1C     | Skin corrosion, Category 1C                                    |
| Skin Sens. 1      | Skin sensitization, Category 1                                 |
| 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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## **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

### **1.1. Product identifier**

Marabu Fineliner Colour Hyp 24pcs MNA yellow green

### **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 \*\*\***

Ethenediol

CAS No. 107-21-1



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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

**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  $\geq 0,001$  < 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  
Eye Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)  
Skin Corr. 1C H314  $\geq 0,6$   
Eye Irrit. 2 H319  $\geq 0,06 < 0,6$   
Skin Irrit. 2 H315  $\geq 0,06 < 0,6$   
Skin Sens. 1 H317  $\geq 0,0015$   
Aquatic Acute 1 H410 M = 100  
Aquatic Chronic 1 H410 M = 100  
1  
Eye Dam. 1 H318  $\geq 0,6$  %

**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 (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

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 <sup>3</sup> | 20 | ppm(V) |
| Short term exposure limit | 104 | mg/m <sup>3</sup> | 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 Worker  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action 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 Consumer  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action 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**

|   |                  |     |    |
|---|------------------|-----|----|
| <b>Physical state</b>   | liquid           |     |    |
| <b>Colour</b>   | coloured         |     |    |
| <b>Odour</b>  | odourless        |     |    |
| <b>Melting point</b>  |                  |     |    |
| Remarks   | not determined   |     |    |
| <b>Freezing point</b>   |                  |     |    |
| Remarks   | not determined   |     |    |
| <b>Boiling point or initial boiling point and boiling range</b> |                  |     |    |
| Value   | appr. 100        |     | °C |
| Pressure  | 1.013            | hPa |    |
| Source  | Literature value |     |    |
| <b>Flammability</b>   |                  |     |    |
| 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 ( <i>Pimephales promelas</i> ) |   |      |
| 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 ( <i>Oncorhynchus mykiss</i> ) |   |      |
| 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.



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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 IMDG/GGVSee   | Air transport ICAO/IATA  |
|---|---|--|--|
| <b>14.1. UN number</b>                  | 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.- |
| <b>14.2. UN proper shipping name</b>    | -   | -  | -  |
| <b>14.3. Transport hazard class(es)</b> | -   | -  | -  |
| Subsidiary risk                         |   | -  | -  |
| Label                                   |   |  |  |
| <b>14.4. Packing group</b>              | -   | -  | -  |
| Transport category                      | 0   |  |  |
| <b>14.5. Environmental hazards</b>      | -   | 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**

no

**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 | 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.



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

### **1.1. Product identifier**

Marabu Fineliner Colour Hyp 24pcs MNA mint

### **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 \*\*\***

Ethenediol

CAS No.

107-21-1



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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

**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  $\geq 0,001$  < 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  
Eye Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)  
Skin Corr. 1C H314  $\geq 0,6$   
Eye Irrit. 2 H319  $\geq 0,06 < 0,6$   
Skin Irrit. 2 H315  $\geq 0,06 < 0,6$   
Skin Sens. 1 H317  $\geq 0,0015$   
Aquatic Acute 1 H410 M = 100  
Aquatic Chronic 1 H410 M = 100  
1  
Eye Dam. 1 H318  $\geq 0,6$  %

**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 (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

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 <sup>3</sup> | 20 | ppm(V) |
| Short term exposure limit | 104 | mg/m <sup>3</sup> | 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      | Worker                         |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | 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      | Consumer                       |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | 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

|   |                  |     |    |
|---|------------------|-----|----|
| <b>Physical state</b>   | liquid           |     |    |
| <b>Colour</b>   | coloured         |     |    |
| <b>Odour</b>  | odourless        |     |    |
| <b>Melting point</b>  |                  |     |    |
| Remarks   | not determined   |     |    |
| <b>Freezing point</b>   |                  |     |    |
| Remarks   | not determined   |     |    |
| <b>Boiling point or initial boiling point and boiling range</b> |                  |     |    |
| Value   | appr. 100        |     | °C |
| Pressure  | 1.013            | hPa |    |
| Source  | Literature value |     |    |
| <b>Flammability</b>   |                  |     |    |
| 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 ( <i>Pimephales promelas</i> ) |   |      |
| 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 ( <i>Oncorhynchus mykiss</i> ) |   |      |
| 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.



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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 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 Maritime transport in bulk according to IMO instruments

no

## 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 | 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.



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

### **1.1. Product identifier**

Marabu Fineliner Colour Hyp 24pcs MNA lilac

### **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 \*\*\***

Ethenediol

CAS No.

107-21-1



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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

**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  $\geq 0,001$  < 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  
Eye Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)  
Skin Corr. 1C H314  $\geq 0,6$   
Eye Irrit. 2 H319  $\geq 0,06 < 0,6$   
Skin Irrit. 2 H315  $\geq 0,06 < 0,6$   
Skin Sens. 1 H317  $\geq 0,0015$   
Aquatic Acute 1 H410 M = 100  
Aquatic Chronic 1 H410 M = 100  
1  
Eye Dam. 1 H318  $\geq 0,6$  %

## **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 <sup>3</sup> | 20 | ppm(V) |
| Short term exposure limit                                    | 104 | mg/m <sup>3</sup> | 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      | Worker                         |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | 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      | Consumer                       |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | 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**

|   |                  |     |    |
|---|------------------|-----|----|
| <b>Physical state</b>   | liquid           |     |    |
| <b>Colour</b>   | coloured         |     |    |
| <b>Odour</b>  | odourless        |     |    |
| <b>Melting point</b>  |                  |     |    |
| Remarks   | not determined   |     |    |
| <b>Freezing point</b>   |                  |     |    |
| Remarks   | not determined   |     |    |
| <b>Boiling point or initial boiling point and boiling range</b> |                  |     |    |
| Value   | appr. 100        |     | °C |
| Pressure  | 1.013            | hPa |    |
| Source  | Literature value |     |    |
| <b>Flammability</b>   |                  |     |    |
| 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, but contains substance(s) dangerous for the environment. See section 3 for further details.

#### Fish toxicity (Components)

##### Ethanediol

|                      |   |
|----------------------|---|
| Species              | Fathead minnow ( <i>Pimephales promelas</i> ) |
| 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 ( <i>Oncorhynchus mykiss</i> ) |
| 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.



Trade name: Marabu Fineliner Colour Hyp 24pcs MNA lilac

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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 IMDG/GGVSee   | Air transport ICAO/IATA  |
|---|---|--|--|
| <b>14.1. UN number</b>                  | 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.- |
| <b>14.2. UN proper shipping name</b>    | -   | -  | -  |
| <b>14.3. Transport hazard class(es)</b> | -   | -  | -  |
| Subsidiary risk                         |   | -  | -  |
| Label                                   |   |  |  |
| <b>14.4. Packing group</b>              | -   | -  | -  |
| Transport category                      | 0   |  |  |
| <b>14.5. Environmental hazards</b>      | -   | 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**

no

**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 Fineliner Colour Hyp 24pcs MNA lilac

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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 | 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 Fineliner Colour Hyp 24pcs MNA antique gree

Version: 2 / GB

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Substance number: 0146900000103-266

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

### **1.1. Product identifier**

Marabu Fineliner Colour Hyp 24pcs MNA antique gree

### **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



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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

**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  $\geq 0,001$  < 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  
Eye Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)  
Skin Corr. 1C H314  $\geq 0,6$   
Eye Irrit. 2 H319  $\geq 0,06 < 0,6$   
Skin Irrit. 2 H315  $\geq 0,06 < 0,6$   
Skin Sens. 1 H317  $\geq 0,0015$   
Aquatic Acute 1 H410 M = 100  
Aquatic Chronic 1 H410 M = 100  
1  
Eye Dam. 1 H318  $\geq 0,6$  %

**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<sup>3</sup> 20 ppm(V)  
 Short term exposure limit 104 mg/m<sup>3</sup> 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 Worker  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action 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 Consumer  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action 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**

|   |                  |     |    |
|---|------------------|-----|----|
| <b>Physical state</b>   | liquid           |     |    |
| <b>Colour</b>   | coloured         |     |    |
| <b>Odour</b>  | odourless        |     |    |
|   |                  |     |    |
| <b>Melting point</b>  |                  |     |    |
| Remarks   | not determined   |     |    |
|   |                  |     |    |
| <b>Freezing point</b>   |                  |     |    |
| Remarks   | not determined   |     |    |
|   |                  |     |    |
| <b>Boiling point or initial boiling point and boiling range</b> |                  |     |    |
| Value   | appr. 100        |     | °C |
| Pressure  | 1.013            | hPa |    |
| Source  | Literature value |     |    |
|   |                  |     |    |
| <b>Flammability</b>   |                  |     |    |
| 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



Trade name: Marabu Fineliner Colour Hyp 24pcs MNA antique gree

Version: 2 / GB

Date revised: 24.01.2020

Substance number: 0146900000103-266

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



Trade name: Marabu Fineliner Colour Hyp 24pcs MNA antique gree

Version: 2 / GB

Date revised: 24.01.2020

Substance number: 0146900000103-266

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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 ( <i>Pimephales promelas</i> ) |   |      |
| 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 ( <i>Oncorhynchus mykiss</i> ) |   |      |
| 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.





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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 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 Maritime transport in bulk according to IMO instruments

no

## 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 Fineliner Colour Hyp 24pcs MNA antique gree

Version: 2 / GB

Date revised: 24.01.2020

Substance number: 0146900000103-266

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 Fineliner Colour Hyp 24pcs MNA light grey

Version: 1 / GB

Date revised: 26.08.2019

Substance number: 0146900000103-278

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 Fineliner Colour Hyp 24pcs MNA light grey

### **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



Trade name: Marabu Fineliner Colour Hyp 24pcs MNA light grey

Version: 1 / GB

Date revised: 26.08.2019

Substance number: 0146900000103-278

Replaces Version: - / 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  
 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  
 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**



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 Version: 1 / GB  
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 Substance number: 0146900000103-278  
 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 <sup>3</sup> | 20 | ppm(V) |
| Short term exposure limit                                    | 104 | mg/m <sup>3</sup> | 40 | ppm(V) |
| Skin resorption / sensibilisation: Skin; Remarks: 2000/39/EG |     |                   |    |        |

**Glycerol**

|      |      |
|------|------|
| List | EH40 |
|------|------|



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Version: 1 / GB

Date revised: 26.08.2019

Substance number: 014690000103-278

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      | Worker                         |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | 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      | Consumer                       |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | 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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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**

|   |                  |     |    |
|---|------------------|-----|----|
| <b>Physical state</b>   | liquid           |     |    |
| <b>Colour</b>   | coloured         |     |    |
| <b>Odour</b>  | odourless        |     |    |
| <b>Melting point</b>  |                  |     |    |
| Remarks   | not determined   |     |    |
| <b>Freezing point</b>   |                  |     |    |
| Remarks   | not determined   |     |    |
| <b>Boiling point or initial boiling point and boiling range</b> |                  |     |    |
| Value   | appr. 100        |     | °C |
| Pressure  | 1.013            | hPa |    |
| Source  | Literature value |     |    |
| <b>Flammability</b>   |                  |     |    |
| 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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Version: 1 / GB

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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 ( <i>Pimephales promelas</i> ) |   |      |
| 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 ( <i>Oncorhynchus mykiss</i> ) |   |      |
| 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.



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Date revised: 26.08.2019

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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 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 Maritime transport in bulk according to IMO instruments

no

## 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 | 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 Fineliner Colour Hyp 24pcs MNA aqua green

Version: 2 / GB

Date revised: 24.01.2020

Substance number: 0146900000103-297

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 Fineliner Colour Hyp 24pcs MNA aqua green

### **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



Trade name: Marabu Fineliner Colour Hyp 24pcs MNA aqua green

Version: 2 / GB

Date revised: 24.01.2020

Substance number: 0146900000103-297

Replaces Version: 1 / GB

Print date: 12.05.23

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

**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  $\geq$  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  
 Eye Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)  
 Skin Corr. 1C H314  $\geq$  0,6  
 Eye Irrit. 2 H319  $\geq$  0,06 < 0,6  
 Skin Irrit. 2 H315  $\geq$  0,06 < 0,6  
 Skin Sens. 1 H317  $\geq$  0,0015  
 Aquatic Acute 1 H410 M = 100  
 Aquatic Chronic 1 H410 M = 100  
 1  
 Eye Dam. 1 H318  $\geq$  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 <sup>3</sup> | 20 | ppm(V) |
| Short term exposure limit                                    | 104 | mg/m <sup>3</sup> | 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 Worker  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action 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 Consumer  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action 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**

|   |                  |     |    |
|---|------------------|-----|----|
| <b>Physical state</b>   | liquid           |     |    |
| <b>Colour</b>   | coloured         |     |    |
| <b>Odour</b>  | odourless        |     |    |
| <b>Melting point</b>  |                  |     |    |
| Remarks   | not determined   |     |    |
| <b>Freezing point</b>   |                  |     |    |
| Remarks   | not determined   |     |    |
| <b>Boiling point or initial boiling point and boiling range</b> |                  |     |    |
| Value   | appr. 100        |     | °C |
| Pressure  | 1.013            | hPa |    |
| Source  | Literature value |     |    |
| <b>Flammability</b>   |                  |     |    |
| 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 ( <i>Pimephales promelas</i> ) |   |      |
| 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 ( <i>Oncorhynchus mykiss</i> ) |   |      |
| 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.

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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**

|   | <b>Land transport ADR/RID</b>   | <b>Marine transport IMDG/GGVSee</b>                                      | <b>Air transport ICAO/IATA</b>   |
|---|---|--|--|
| <b>14.1. UN number</b>                  | 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.- |
| <b>14.2. UN proper shipping name</b>    | -   | -  | -  |
| <b>14.3. Transport hazard class(es)</b> | -   | -  | -  |
| Subsidiary risk                         |   | -  | -  |
| Label                                   |   |  |  |
| <b>14.4. Packing group</b>              | -   | -  | -  |
| Transport category                      | 0   |  |  |
| <b>14.5. Environmental hazards</b>      | -   | 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**

no

## **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 | 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.



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

### **1.1. Product identifier**

Marabu Fineliner Colour Hyp 24pcs MNA sand

### **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



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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

**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  $\geq 0,001$  < 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  
Eye Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)  
Skin Corr. 1C H314  $\geq 0,6$   
Eye Irrit. 2 H319  $\geq 0,06 < 0,6$   
Skin Irrit. 2 H315  $\geq 0,06 < 0,6$   
Skin Sens. 1 H317  $\geq 0,0015$   
Aquatic Acute 1 H410 M = 100  
Aquatic Chronic 1 H410 M = 100  
1  
Eye Dam. 1 H318  $\geq 0,6$  %

**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 <sup>3</sup> | 20 | ppm(V) |
| Short term exposure limit                                    | 104 | mg/m <sup>3</sup> | 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      | Worker                         |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | 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      | Consumer                       |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | 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**

|   |                  |     |    |
|---|------------------|-----|----|
| <b>Physical state</b>   | liquid           |     |    |
| <b>Colour</b>   | coloured         |     |    |
| <b>Odour</b>  | odourless        |     |    |
|   |                  |     |    |
| <b>Melting point</b>  |                  |     |    |
| Remarks   | not determined   |     |    |
|   |                  |     |    |
| <b>Freezing point</b>   |                  |     |    |
| Remarks   | not determined   |     |    |
|   |                  |     |    |
| <b>Boiling point or initial boiling point and boiling range</b> |                  |     |    |
| Value   | appr. 100        |     | °C |
| Pressure  | 1.013            | hPa |    |
| Source  | Literature value |     |    |
|   |                  |     |    |
| <b>Flammability</b>   |                  |     |    |
| 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 ( <i>Pimephales promelas</i> ) |   |      |
| 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 ( <i>Oncorhynchus mykiss</i> ) |   |      |
| 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.

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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**

|   | <b>Land transport ADR/RID</b>   | <b>Marine transport IMDG/GGVSee</b>                                      | <b>Air transport ICAO/IATA</b>   |
|---|---|--|--|
| <b>14.1. UN number</b>                  | 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.- |
| <b>14.2. UN proper shipping name</b>    | -   | -  | -  |
| <b>14.3. Transport hazard class(es)</b> | -   | -  | -  |
| Subsidiary risk                         |   | -  | -  |
| Label                                   |   |  |  |
| <b>14.4. Packing group</b>              | -   | -  | -  |
| Transport category                      | 0   |  |  |
| <b>14.5. Environmental hazards</b>      | -   | 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**

no

## **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 | 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.





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

### **1.1. Product identifier**

Marabu Fineliner Colour Hyp 24pcs MNA yellow

### **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 \*\*\***

Ethenediol

CAS No. 107-21-1



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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

**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  $\geq 0,001$  < 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  
Eye Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)  
Skin Corr. 1C H314  $\geq 0,6$   
Eye Irrit. 2 H319  $\geq 0,06 < 0,6$   
Skin Irrit. 2 H315  $\geq 0,06 < 0,6$   
Skin Sens. 1 H317  $\geq 0,0015$   
Aquatic Acute 1 H410 M = 100  
Aquatic Chronic 1 H410 M = 100  
1  
Eye Dam. 1 H318  $\geq 0,6$  %

**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 <sup>3</sup> | 20 | ppm(V) |
| Short term exposure limit                                    | 104 | mg/m <sup>3</sup> | 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      | Worker                         |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | 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      | Consumer                       |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | 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**

|   |                  |     |    |
|---|------------------|-----|----|
| <b>Physical state</b>   | liquid           |     |    |
| <b>Colour</b>   | coloured         |     |    |
| <b>Odour</b>  | odourless        |     |    |
|   |                  |     |    |
| <b>Melting point</b>  |                  |     |    |
| Remarks   | not determined   |     |    |
|   |                  |     |    |
| <b>Freezing point</b>   |                  |     |    |
| Remarks   | not determined   |     |    |
|   |                  |     |    |
| <b>Boiling point or initial boiling point and boiling range</b> |                  |     |    |
| Value   | appr. 100        |     | °C |
| Pressure  | 1.013            | hPa |    |
| Source  | Literature value |     |    |
|   |                  |     |    |
| <b>Flammability</b>   |                  |     |    |
| 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 ( <i>Pimephales promelas</i> ) |   |      |
| 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 ( <i>Oncorhynchus mykiss</i> ) |   |      |
| 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.



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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 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 Maritime transport in bulk according to IMO instruments

no

## 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 | 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.

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

### **1.1. Product identifier**

Marabu Fineliner Colour Hyp 24pcs MNA orange

### **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

Disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl)benzoate, 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



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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

**Disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl)benzoate**

CAS No. 17372-87-1  
 EINECS no. 241-409-6  
 Concentration  $\geq 0,1$  < 1 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Skin Sens. 1 H317  
 Eye Irrit. 2 H319

**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  $\geq 0,001$  < 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  
 Eye Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)  
 Skin Corr. 1C H314  $\geq 0,6$   
 Eye Irrit. 2 H319  $\geq 0,06 < 0,6$   
 Skin Irrit. 2 H315  $\geq 0,06 < 0,6$   
 Skin Sens. 1 H317  $\geq 0,0015$   
 Aquatic Acute 1 H410 M = 100  
 Aquatic Chronic 1 H410 M = 100  
 Eye Dam. 1 H318  $\geq 0,6$  %

**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**

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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>); Sulphur oxides

### **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



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Value 10 mg/m<sup>3</sup>  
 Skin resorption / sensibilisation: Sk: 2011

**Ethanediol**

List EU  
 Value 52 mg/m<sup>3</sup> 20 ppm(V)  
 Short term exposure limit 104 mg/m<sup>3</sup> 40 ppm(V)  
 Skin resorption / sensibilisation: Skin; Remarks: 2000/39/EG

**Glycerol**

List EH40  
 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 Long term  
 Route of exposure inhalative  
 Mode of action 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 Consumer  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action 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



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|               |                              |       |
|---------------|------------------------------|-------|
| 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.

**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**

|                       |           |
|-----------------------|-----------|
| <b>Physical state</b> | liquid    |
| <b>Colour</b>         | coloured  |
| <b>Odour</b>          | odourless |
| <b>Melting point</b>  |           |



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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

**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.





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#### 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 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)

###### Ethenediol

|         |     |      |       |
|---------|-----|------|-------|
| Species | rat |      |       |
| LD50    |     | 7712 | mg/kg |

##### Acute dermal toxicity

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

##### Acute dermal toxicity (Components)

###### Ethenediol

|         |        |      |       |
|---------|--------|------|-------|
| 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,



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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 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 ( <i>Pimephales promelas</i> ) |   |      |
| 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 ( <i>Oncorhynchus mykiss</i> ) |   |      |
| 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              | Selastrum 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**

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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.

## 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 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 Maritime transport in bulk according to IMO instruments

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no

## **SECTION 15: Regulatory information**

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

#### **VOC**

VOC (EU) 5 %

#### **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.   |
| H319 | Causes serious eye irritation.                                     |
| 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                                 |
| Eye Irrit. 2      | Eye irritation, Category 2                                     |
| Skin Corr. 1C     | Skin corrosion, Category 1C                                    |
| Skin Sens. 1      | Skin sensitization, Category 1                                 |
| 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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## **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

### **1.1. Product identifier**

Marabu Fineliner Colour Hyp 24pcs MNA make-up

### **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 \*\*\***

Ethenediol

CAS No. 107-21-1



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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

**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  $\geq 0,001$  < 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  
Eye Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)  
Skin Corr. 1C H314  $\geq 0,6$   
Eye Irrit. 2 H319  $\geq 0,06 < 0,6$   
Skin Irrit. 2 H315  $\geq 0,06 < 0,6$   
Skin Sens. 1 H317  $\geq 0,0015$   
Aquatic Acute 1 H410 M = 100  
Aquatic Chronic 1 H410 M = 100  
1  
Eye Dam. 1 H318  $\geq 0,6$  %

**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 <sup>3</sup> | 20 | ppm(V) |
| Short term exposure limit                                    | 104 | mg/m <sup>3</sup> | 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      | Worker                         |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | 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      | Consumer                       |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | 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**

|   |                  |     |    |
|---|------------------|-----|----|
| <b>Physical state</b>   | liquid           |     |    |
| <b>Colour</b>   | coloured         |     |    |
| <b>Odour</b>  | odourless        |     |    |
| <b>Melting point</b>  |                  |     |    |
| Remarks   | not determined   |     |    |
| <b>Freezing point</b>   |                  |     |    |
| Remarks   | not determined   |     |    |
| <b>Boiling point or initial boiling point and boiling range</b> |                  |     |    |
| Value   | appr. 100        |     | °C |
| Pressure  | 1.013            | hPa |    |
| Source  | Literature value |     |    |
| <b>Flammability</b>   |                  |     |    |
| 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 ( <i>Pimephales promelas</i> ) |   |      |
| 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 ( <i>Oncorhynchus mykiss</i> ) |   |      |
| 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.



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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 IMDG/GGVSee   | Air transport ICAO/IATA  |
|---|---|--|--|
| <b>14.1. UN number</b>                  | 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.- |
| <b>14.2. UN proper shipping name</b>    | -   | -  | -  |
| <b>14.3. Transport hazard class(es)</b> | -   | -  | -  |
| Subsidiary risk                         |   | -  | -  |
| Label                                   |   |  |  |
| <b>14.4. Packing group</b>              | -   | -  | -  |
| Transport category                      | 0   |  |  |
| <b>14.5. Environmental hazards</b>      | -   | 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**

no

**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 | 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.



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

### **1.1. Product identifier**

Marabu Fineliner Colour Hyp 24pcs MNA ruby red

### **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



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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

**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  $\geq 0,001$  < 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  
 Eye Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)  
 Skin Corr. 1C H314  $\geq 0,6$   
 Eye Irrit. 2 H319  $\geq 0,06 < 0,6$   
 Skin Irrit. 2 H315  $\geq 0,06 < 0,6$   
 Skin Sens. 1 H317  $\geq 0,0015$   
 Aquatic Acute 1 H410 M = 100  
 Aquatic Chronic 1 H410 M = 100  
 Eye Dam. 1 H318  $\geq 0,6$  %

**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; Nitrogen oxides (NOx); Sulphur oxides

**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**

**Ethenediol**

|       |      |                   |  |
|-------|------|-------------------|--|
| List  | EH40 |                   |  |
| Type  | WEL  |                   |  |
| Value | 10   | mg/m <sup>3</sup> |  |

Skin resorption / sensibilisation: Sk: 2011

**Ethenediol**

|                           |     |                   |    |        |
|---------------------------|-----|-------------------|----|--------|
| List                      | EU  |                   |    |        |
| Value                     | 52  | mg/m <sup>3</sup> | 20 | ppm(V) |
| Short term exposure limit | 104 | mg/m <sup>3</sup> | 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 Worker  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action 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 Consumer  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action 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**

|   |                  |     |    |
|---|------------------|-----|----|
| <b>Physical state</b>   | liquid           |     |    |
| <b>Colour</b>   | coloured         |     |    |
| <b>Odour</b>  | odourless        |     |    |
|   |                  |     |    |
| <b>Melting point</b>  |                  |     |    |
| Remarks   | not determined   |     |    |
|   |                  |     |    |
| <b>Freezing point</b>   |                  |     |    |
| Remarks   | not determined   |     |    |
|   |                  |     |    |
| <b>Boiling point or initial boiling point and boiling range</b> |                  |     |    |
| Value   | appr. 100        |     | °C |
| Pressure  | 1.013            | hPa |    |
| Source  | Literature value |     |    |
|   |                  |     |    |
| <b>Flammability</b>   |                  |     |    |
| 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 ( <i>Pimephales promelas</i> ) |   |      |
| 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 ( <i>Oncorhynchus mykiss</i> ) |   |      |
| 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.

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



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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**

|   | <b>Land transport ADR/RID</b>   | <b>Marine transport IMDG/GGVSee</b>                                      | <b>Air transport ICAO/IATA</b>   |
|---|---|--|--|
| <b>14.1. UN number</b>                  | 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.- |
| <b>14.2. UN proper shipping name</b>    | -   | -  | -  |
| <b>14.3. Transport hazard class(es)</b> | -   | -  | -  |
| Subsidiary risk                         |   | -  | -  |
| Label                                   |   |  |  |
| <b>14.4. Packing group</b>              | -   | -  | -  |
| Transport category                      | 0   |  |  |
| <b>14.5. Environmental hazards</b>      | -   | 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**

no

## **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 | 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.





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

### **1.1. Product identifier**

Marabu Fineliner Colour Hyp 24pcs MNA cherry red

### **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**

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

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

Aquatic Chronic 3 H412

### **2.2. Label elements**

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

#### **Hazard statements \*\*\***

H412

Harmful to aquatic life with long lasting effects.

#### **Precautionary statements \*\*\***

P273

Avoid release to the environment.

P501.9

Dispose of contents/container as problematic waste.

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.



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

### 3.2. Mixtures

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

##### Ethenediol

|  |                  |   |      |   |
|--|------------------|---|------|---|
| CAS No.  | 107-21-1         |   |      |   |
| 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 |   |

##### 3,4,5,6-tetrachloro-2-(1,4,5,8-tetrabromo-6-hydroxy-3-oxoxanthen-9-yl)benzoic acid

|  |                   |   |      |   |
|--|-------------------|---|------|---|
| CAS No.  | 18472-87-2        |   |      |   |
| EINECS no.                                     | 242-355-6         |   |      |   |
| Concentration                                  | >= 1              | < | 2,5  | % |
| Classification (Regulation (EC) No. 1272/2008) |                   |   |      |   |
|  | Eye Irrit. 2      |   | H319 |   |
|  | Aquatic Chronic 2 |   | H411 |   |

##### 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   |   |
|  | 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



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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>); Sulphur oxides; Hydrogen chloride (HCl); Hydrogen bromide (HBr)

#### 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**



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**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<sup>3</sup> 20 ppm(V)  
 Short term exposure limit 104 mg/m<sup>3</sup> 40 ppm(V)  
 Skin resorption / sensibilisation: Skin; Remarks: 2000/39/EG

**Glycerol**

List EH40  
 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 Long term  
 Route of exposure inhalative  
 Mode of action 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 Consumer  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action 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



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|               |                              |  |       |
|---------------|------------------------------|--|-------|
| 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.

**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**



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

|   |                                 |
|---|---------------------------------|
| <b>Physical state</b>   | liquid                          |
| <b>Colour</b>   | coloured                        |
| <b>Odour</b>  | odourless                       |
| <b>Melting point</b>  |                                 |
| Remarks   | not determined                  |
| <b>Freezing point</b>   |                                 |
| Remarks   | not determined                  |
| <b>Boiling point or initial boiling point and boiling range</b> |                                 |
| Value   | appr. 100 °C                    |
| Pressure  | 1.013 hPa                       |
| Source  | Literature value                |
| <b>Flammability</b>   |                                 |
| Not applicable  |                                 |
| <b>Upper and lower explosive limits</b>                         |                                 |
| Lower explosion limit   | appr. 3,2 %(V)                  |
| Upper explosion limit   | appr. 53 %(V)                   |
| Source  | Literature value                |
| <b>Flash point</b>  |                                 |
| Remarks   | Not applicable                  |
| <b>Ignition temperature</b>                                     |                                 |
| Value   | appr. 410 °C                    |
| Source  | Literature value                |
| <b>Viscosity</b>  |                                 |
| Remarks   |                                 |
| Remarks   | not determined                  |
| <b>Vapour pressure</b>  |                                 |
| Value   | appr. 23 hPa                    |
| Temperature   | 20 °C                           |
| Method  | Value taken from the literature |
| <b>Density and/or relative density</b>                          |                                 |
| Remarks   | not determined                  |
| <b>Relative vapour density</b>                                  |                                 |
| Remarks   | not determined                  |
| <b>9.2. Other information</b>                                   |                                 |
| <b>Odour threshold</b>  |                                 |
| Remarks   | No data available               |
| <b>Evaporation rate (ether = 1) :</b>                           |                                 |
| Remarks   | not determined                  |
| <b>Solubility in water</b>                                      |                                 |
| Remarks   | miscible                        |
| <b>Other information</b>  |                                 |
| None known  |                                 |

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

None



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**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 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)****Ethenediol**

|         |     |      |       |
|---------|-----|------|-------|
| Species | rat |      |       |
| LD50    |     | 7712 | mg/kg |

**Acute dermal toxicity**

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

**Acute dermal toxicity (Components)****Ethenediol**

|         |        |      |       |
|---------|--------|------|-------|
| 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**



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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 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 classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

**Fish toxicity (Components)**

**Ethanediol**

|                      |   |   |      |
|----------------------|---|---|------|
| Species              | Fathead minnow ( <i>Pimephales promelas</i> ) |   |      |
| 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 ( <i>Oncorhynchus mykiss</i> ) |   |      |
| 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**





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**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.

**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 IMDG/GGVSee   | Air transport ICAO/IATA  |
|---|---|--|--|
| <b>14.1. UN number</b>                  | 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.- |
| <b>14.2. UN proper shipping name</b>    | -   | -  | -  |
| <b>14.3. Transport hazard class(es)</b> | -   | -  | -  |
| Subsidiary risk                         |   | -  | -  |
| Label                                   |   |  |  |
| <b>14.4. Packing group</b>              | -   | -  | -  |
| Transport category                      | 0   |  |  |
| <b>14.5. Environmental hazards</b>      | -   | no   | -  |

**Information for all modes of transport**

**14.6. Special precautions for user**

MSDS for #21043 - MARABU FINELNR GRPHX  
 Safety data sheet in accordance with regulation (EC) No 1907/2006



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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

no

### SECTION 15: Regulatory information

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

##### VOC

VOC (EU) 5 %

##### 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.   |
| H319 | Causes serious eye irritation.                                     |
| 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.              |
| 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                                     |
| 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.

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

### **1.1. Product identifier**

Marabu Fineliner Colour Hyp 24pcs MNA plum

### **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**

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

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

Aquatic Chronic 3 H412

### **2.2. Label elements**

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

#### **Hazard statements \*\*\***

H412

Harmful to aquatic life with long lasting effects.

#### **Precautionary statements \*\*\***

P273

Avoid release to the environment.

P501.9

Dispose of contents/container as problematic waste.

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.



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

### 3.2. Mixtures

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

##### Ethenediol

|  |                  |   |      |   |
|--|------------------|---|------|---|
| CAS No.  | 107-21-1         |   |      |   |
| 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 |   |

##### Hydrogen

[4-[[4-(diethylamino)phenyl][4-[ethyl(3-sulphonatobenzyl)amino]phenyl]methylene]cyclohexa-2,5-dien-1-ylidene](ethyl)(3-sulphonatobenzyl)ammonium, sodium salt

|  |                   |   |      |   |
|--|-------------------|---|------|---|
| CAS No.  | 4129-84-4         |   |      |   |
| EINECS no.                                     | 223-942-6         |   |      |   |
| Concentration                                  | >= 1              | < | 2,5  | % |
| Classification (Regulation (EC) No. 1272/2008) |                   |   |      |   |
|  | Aquatic Chronic 2 |   | H411 |   |

#### 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   |   |
|  | 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       |
| 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

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



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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

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



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## 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 <sup>3</sup> | 20 | ppm(V) |
| Short term exposure limit                                    | 104 | mg/m <sup>3</sup> | 40 | ppm(V) |
| Skin resorption / sensibilisation: Skin; Remarks: 2000/39/EG |     |                   |    |        |

##### Glycerol

|              |      |                   |
|--------------|------|-------------------|
| List         | EH40 |                   |
| 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 | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | 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      | Consumer                       |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | 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



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|               |                              |       |
|---------------|------------------------------|-------|
| 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.

### 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.





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## **SECTION 9: Physical and chemical properties**

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

|   |                                 |
|---|---------------------------------|
| <b>Physical state</b>   | liquid                          |
| <b>Colour</b>   | coloured                        |
| <b>Odour</b>  | odourless                       |
| <b>Melting point</b>  |                                 |
| Remarks   | not determined                  |
| <b>Freezing point</b>   |                                 |
| Remarks   | not determined                  |
| <b>Boiling point or initial boiling point and boiling range</b> |                                 |
| Value   | appr. 100 °C                    |
| Pressure  | 1.013 hPa                       |
| Source  | Literature value                |
| <b>Flammability</b>   |                                 |
| Remarks   | Not applicable                  |
| <b>Upper and lower explosive limits</b>                         |                                 |
| Lower explosion limit   | appr. 3,2 %(V)                  |
| Upper explosion limit   | appr. 53 %(V)                   |
| Source  | Literature value                |
| <b>Flash point</b>  |                                 |
| Remarks   | Not applicable                  |
| <b>Ignition temperature</b>                                     |                                 |
| Value   | appr. 410 °C                    |
| Source  | Literature value                |
| <b>Viscosity</b>  |                                 |
| Remarks   | not determined                  |
| <b>Vapour pressure</b>  |                                 |
| Value   | appr. 23 hPa                    |
| Temperature   | 20 °C                           |
| Method  | Value taken from the literature |
| <b>Density and/or relative density</b>                          |                                 |
| Remarks   | not determined                  |
| <b>Relative vapour density</b>                                  |                                 |
| Remarks   | not determined                  |

### **9.2. Other information**

|                                       |                   |
|---------------------------------------|-------------------|
| <b>Odour threshold</b>                |                   |
| Remarks                               | No data available |
| <b>Evaporation rate (ether = 1) :</b> |                   |
| Remarks                               | not determined    |
| <b>Solubility in water</b>            |                   |
| Remarks                               | miscible          |
| <b>Other information</b>              |                   |
| Remarks                               | None known        |

## **SECTION 10: Stability and reactivity**



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**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 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)**

**Ethenediol**

|         |     |      |       |
|---------|-----|------|-------|
| Species | rat |      |       |
| LD50    |     | 7712 | mg/kg |

**Acute dermal toxicity**

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

**Acute dermal toxicity (Components)**

**Ethenediol**

|         |        |      |       |
|---------|--------|------|-------|
| 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.



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**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 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 classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

**Fish toxicity (Components)**

**Ethanediol**

|                      |   |   |      |
|----------------------|---|---|------|
| Species              | Fathead minnow ( <i>Pimephales promelas</i> ) |   |      |
| 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 ( <i>Oncorhynchus mykiss</i> ) |   |      |
| 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**

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



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#### **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.

### **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**



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|   | Land transport ADR/RID  | Marine transport IMDG/GGVSee   | Air transport ICAO/IATA  |
|---|---|--|--|
| <b>14.1. UN number</b>                  | 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.- |
| <b>14.2. UN proper shipping name</b>    | -   | -  | -  |
| <b>14.3. Transport hazard class(es)</b> | -   | -  | -  |
| Subsidiary risk                         |   | -  | -  |
| Label                                   |   |  |  |
| <b>14.4. Packing group</b>              | -   | -  | -  |
| Transport category                      | 0   |  |  |
| <b>14.5. Environmental hazards</b>      | -   | 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**

no

**SECTION 15: Regulatory information**

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

**VOC**

VOC (EU) 5 %

**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.



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|      |  |
|------|--|
| 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.              |
| 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                                 |
| 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 Fineliner Colour Hyp 24pcs MNA dark brown

Version: 2 / GB

Date revised: 24.01.2020

Substance number: 0146900000103-045

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

### **1.1. Product identifier**

Marabu Fineliner Colour Hyp 24pcs MNA dark brown

### **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**

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

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

Aquatic Chronic 3 H412

### **2.2. Label elements**

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

##### **Hazard statements**

H412

Harmful to aquatic life with long lasting effects.

##### **Precautionary statements**

P273

Avoid release to the environment.

P501.9

Dispose of contents/container as problematic waste.

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.



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

### 3.2. Mixtures

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

##### Ethenediol

|  |                  |   |      |   |
|--|------------------|---|------|---|
| CAS No.  | 107-21-1         |   |      |   |
| 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 |   |

##### 3,4,5,6-tetrachloro-2-(1,4,5,8-tetrabromo-6-hydroxy-3-oxoxanthen-9-yl)benzoic acid

|  |                   |   |      |   |
|--|-------------------|---|------|---|
| CAS No.  | 18472-87-2        |   |      |   |
| EINECS no.                                     | 242-355-6         |   |      |   |
| Concentration                                  | >= 2,5            | < | 10   | % |
| Classification (Regulation (EC) No. 1272/2008) |                   |   |      |   |
|  | Eye Irrit. 2      |   | H319 |   |
|  | Aquatic Chronic 2 |   | H411 |   |

##### 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   |   |
|  | 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



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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; Hydrogen chloride (HCl); Hydrogen bromide (HBr)

#### 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**



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### 8.1. Control parameters

#### Exposure limit values

##### Ethenediol

List EH40  
 Type WEL  
 Value 10 mg/m<sup>3</sup>  
 Skin resorption / sensibilisation: Sk: 2011

##### Ethenediol

List EU  
 Value 52 mg/m<sup>3</sup> 20 ppm(V)  
 Short term exposure limit 104 mg/m<sup>3</sup> 40 ppm(V)  
 Skin resorption / sensibilisation: Skin; Remarks: 2000/39/EG

##### Glycerol

List EH40  
 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)

##### Ethenediol

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/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 Consumer  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action 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)

##### Ethenediol

Type of value PNEC  
 Type Freshwater  
 Concentration 10 mg/l



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|               |                              |  |       |
|---------------|------------------------------|--|-------|
| 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.

**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**



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

|   |                                 |     |      |
|---|---------------------------------|-----|------|
| <b>Physical state</b>   | liquid                          |     |      |
| <b>Colour</b>   | coloured                        |     |      |
| <b>Odour</b>  | odourless                       |     |      |
| <b>Melting point</b>  |                                 |     |      |
| Remarks   | not determined                  |     |      |
| <b>Freezing point</b>   |                                 |     |      |
| Remarks   | not determined                  |     |      |
| <b>Boiling point or initial boiling point and boiling range</b> |                                 |     |      |
| Value   | appr. 100                       |     | °C   |
| Pressure  | 1.013                           | hPa |      |
| Source  | Literature value                |     |      |
| <b>Flammability</b>   |                                 |     |      |
| Not applicable  |                                 |     |      |
| <b>Upper and lower explosive limits</b>                         |                                 |     |      |
| Lower explosion limit   | appr. 3,2                       |     | %(V) |
| Upper explosion limit   | appr. 53                        |     | %(V) |
| Source  | Literature value                |     |      |
| <b>Flash point</b>  |                                 |     |      |
| Remarks   | Not applicable                  |     |      |
| <b>Ignition temperature</b>                                     |                                 |     |      |
| Value   | appr. 410                       |     | °C   |
| Source  | Literature value                |     |      |
| <b>Viscosity</b>  |                                 |     |      |
| Remarks   |                                 |     |      |
| Remarks   | not determined                  |     |      |
| <b>Vapour pressure</b>  |                                 |     |      |
| Value   | appr. 23                        |     | hPa  |
| Temperature   | 20                              | °C  |      |
| Method  | Value taken from the literature |     |      |
| <b>Density and/or relative density</b>                          |                                 |     |      |
| Remarks   | not determined                  |     |      |
| <b>Relative vapour density</b>                                  |                                 |     |      |
| Remarks   | not determined                  |     |      |
| <b>9.2. Other information</b>                                   |                                 |     |      |
| <b>Odour threshold</b>  |                                 |     |      |
| Remarks   | No data available               |     |      |
| <b>Evaporation rate (ether = 1) :</b>                           |                                 |     |      |
| Remarks   | not determined                  |     |      |
| <b>Solubility in water</b>                                      |                                 |     |      |
| Remarks   | miscible                        |     |      |
| <b>Other information</b>  |                                 |     |      |
| None known  |                                 |     |      |

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

None

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## 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 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)

##### Ethenediol

|         |     |      |       |
|---------|-----|------|-------|
| Species | rat |      |       |
| LD50    |     | 7712 | mg/kg |

#### Acute dermal toxicity

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

#### Acute dermal toxicity (Components)

##### Ethenediol

|         |        |      |       |
|---------|--------|------|-------|
| 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



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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 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 classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

#### Fish toxicity (Components)

##### Ethanediol

|                      |   |   |      |
|----------------------|---|---|------|
| Species              | Fathead minnow ( <i>Pimephales promelas</i> ) |   |      |
| 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 ( <i>Oncorhynchus mykiss</i> ) |   |      |
| 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

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### 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.

## 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 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

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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

no

### **SECTION 15: Regulatory information**

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

##### VOC

VOC (EU) 5 %

##### 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.   |
| H319 | Causes serious eye irritation.                                     |
| 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.              |
| 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                                     |
| 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



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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 Fineliner Colour Hyp 24pcs MNA ultramarine

Version: 2 / GB

Date revised: 24.01.2020

Substance number: 0146900000103-055

Replaces Version: 1 / GB

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

### **1.1. Product identifier**

Marabu Fineliner Colour Hyp 24pcs MNA ultramarine

### **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**

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

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

Aquatic Chronic 3 H412

### **2.2. Label elements**

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

#### **Hazard statements \*\*\***

H412 Harmful to aquatic life with long lasting effects.

#### **Precautionary statements \*\*\***

P273 Avoid release to the environment.

P501.9 Dispose of contents/container as problematic waste.

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.



Trade name: Marabu Fineliner Colour Hyp 24pcs MNA ultramarine

Version: 2 / GB

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

#### 3.2. Mixtures

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

###### Ethenediol

|  |                  |   |      |   |
|--|------------------|---|------|---|
| CAS No.  | 107-21-1         |   |      |   |
| 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 |   |

###### Hydrogen

[4-[[4-(diethylamino)phenyl][4-[ethyl(3-sulphonatobenzyl)amino]phenyl]methylene]cyclohexa-2,5-dien-1-ylidene](ethyl)(3-sulphonatobenzyl)ammonium, sodium salt

|  |                   |   |      |   |
|--|-------------------|---|------|---|
| CAS No.  | 4129-84-4         |   |      |   |
| EINECS no.                                     | 223-942-6         |   |      |   |
| Concentration                                  | >= 1              | < | 2,5  | % |
| Classification (Regulation (EC) No. 1272/2008) |                   |   |      |   |
|  | Aquatic Chronic 2 |   | H411 |   |

##### 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   |   |
|  | 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

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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

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



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**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<sup>3</sup> 20 ppm(V)  
 Short term exposure limit 104 mg/m<sup>3</sup> 40 ppm(V)  
 Skin resorption / sensibilisation: Skin; Remarks: 2000/39/EG

**Glycerol**

List EH40  
 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 Long term  
 Route of exposure inhalative  
 Mode of action 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 Consumer  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action 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**



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|               |                              |       |
|---------------|------------------------------|-------|
| 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.

### 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.



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## **SECTION 9: Physical and chemical properties**

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

|   |                                 |
|---|---------------------------------|
| <b>Physical state</b>   | liquid                          |
| <b>Colour</b>   | coloured                        |
| <b>Odour</b>  | odourless                       |
| <b>Melting point</b>  |                                 |
| Remarks   | not determined                  |
| <b>Freezing point</b>   |                                 |
| Remarks   | not determined                  |
| <b>Boiling point or initial boiling point and boiling range</b> |                                 |
| Value   | appr. 100 °C                    |
| Pressure  | 1.013 hPa                       |
| Source  | Literature value                |
| <b>Flammability</b>   |                                 |
| Not applicable  |                                 |
| <b>Upper and lower explosive limits</b>                         |                                 |
| Lower explosion limit   | appr. 3,2 %(V)                  |
| Upper explosion limit   | appr. 53 %(V)                   |
| Source  | Literature value                |
| <b>Flash point</b>  |                                 |
| Remarks   | Not applicable                  |
| <b>Ignition temperature</b>                                     |                                 |
| Value   | appr. 410 °C                    |
| Source  | Literature value                |
| <b>Viscosity</b>  |                                 |
| Remarks   |                                 |
| Remarks   | not determined                  |
| <b>Vapour pressure</b>  |                                 |
| Value   | appr. 23 hPa                    |
| Temperature   | 20 °C                           |
| Method  | Value taken from the literature |
| <b>Density and/or relative density</b>                          |                                 |
| Remarks   | not determined                  |
| <b>Relative vapour density</b>                                  |                                 |
| Remarks   | not determined                  |

### **9.2. Other information**

|                                       |                   |
|---------------------------------------|-------------------|
| <b>Odour threshold</b>                |                   |
| Remarks                               | No data available |
| <b>Evaporation rate (ether = 1) :</b> |                   |
| Remarks                               | not determined    |
| <b>Solubility in water</b>            |                   |
| Remarks                               | miscible          |
| <b>Other information</b>              |                   |
| None known                            |                   |

## **SECTION 10: Stability and reactivity**



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### 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 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)

##### Ethenediol

|         |      |  |       |
|---------|------|--|-------|
| Species | rat  |  |       |
| LD50    | 7712 |  | mg/kg |

#### Acute dermal toxicity

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

#### Acute dermal toxicity (Components)

##### Ethenediol

|         |        |  |       |
|---------|--------|--|-------|
| 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.





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**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 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 classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

**Fish toxicity (Components)**

**Ethanediol**

|                      |   |   |      |
|----------------------|---|---|------|
| Species              | Fathead minnow ( <i>Pimephales promelas</i> ) |   |      |
| 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 ( <i>Oncorhynchus mykiss</i> ) |   |      |
| 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**

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#### 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.

### **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**



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|   | Land transport ADR/RID  | Marine transport IMDG/GGVSee   | Air transport ICAO/IATA  |
|---|---|--|--|
| <b>14.1. UN number</b>                  | 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.- |
| <b>14.2. UN proper shipping name</b>    | -   | -  | -  |
| <b>14.3. Transport hazard class(es)</b> | -   | -  | -  |
| Subsidiary risk                         |   | -  | -  |
| Label                                   |   |  |  |
| <b>14.4. Packing group</b>              | -   | -  | -  |
| Transport category                      | 0   |  |  |
| <b>14.5. Environmental hazards</b>      | -   | 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**

no

**SECTION 15: Regulatory information**

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

**VOC**

VOC (EU) 5 %

**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.



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

### **1.1. Product identifier**

Marabu Fineliner Colour Hyp 24pcs MNA dark green

### **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 \*\*\***

Ethenediol

CAS No.

107-21-1



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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

**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  $\geq 0,001$  < 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  
Eye Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)  
Skin Corr. 1C H314  $\geq 0,6$   
Eye Irrit. 2 H319  $\geq 0,06 < 0,6$   
Skin Irrit. 2 H315  $\geq 0,06 < 0,6$   
Skin Sens. 1 H317  $\geq 0,0015$   
Aquatic Acute 1 H410 M = 100  
Aquatic Chronic 1 H410 M = 100  
1  
Eye Dam. 1 H318  $\geq 0,6$  %

**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 <sup>3</sup> | 20 | ppm(V) |
| Short term exposure limit                                    | 104 | mg/m <sup>3</sup> | 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 Worker  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action 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 Consumer  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action 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**

|   |                  |     |    |
|---|------------------|-----|----|
| <b>Physical state</b>   | liquid           |     |    |
| <b>Colour</b>   | coloured         |     |    |
| <b>Odour</b>  | odourless        |     |    |
| <b>Melting point</b>  |                  |     |    |
| Remarks   | not determined   |     |    |
| <b>Freezing point</b>   |                  |     |    |
| Remarks   | not determined   |     |    |
| <b>Boiling point or initial boiling point and boiling range</b> |                  |     |    |
| Value   | appr. 100        |     | °C |
| Pressure  | 1.013            | hPa |    |
| Source  | Literature value |     |    |
| <b>Flammability</b>   |                  |     |    |
| 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 ( <i>Pimephales promelas</i> ) |   |      |
| 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 ( <i>Oncorhynchus mykiss</i> ) |   |      |
| 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.

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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**

|   | <b>Land transport ADR/RID</b>   | <b>Marine transport IMDG/GGVSee</b>                                      | <b>Air transport ICAO/IATA</b>   |
|---|---|--|--|
| <b>14.1. UN number</b>                  | 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.- |
| <b>14.2. UN proper shipping name</b>    | -   | -  | -  |
| <b>14.3. Transport hazard class(es)</b> | -   | -  | -  |
| Subsidiary risk                         |   | -  | -  |
| Label                                   |   |  |  |
| <b>14.4. Packing group</b>              | -   | -  | -  |
| Transport category                      | 0   |  |  |
| <b>14.5. Environmental hazards</b>      | -   | 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**

no

## **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 | 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.



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Version: 1 / GB

Date revised: 22.08.2019

Substance number: 0146900000103-073

Replaces Version: - / GB

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

### **1.1. Product identifier**

Marabu Fineliner Colour Hyp 24pcs MNA black

### **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



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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

**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  $\geq$  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  
Eye Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)  
Skin Corr. 1C H314  $\geq$  0,6  
Eye Irrit. 2 H319  $\geq$  0,06 < 0,6  
Skin Irrit. 2 H315  $\geq$  0,06 < 0,6  
Skin Sens. 1 H317  $\geq$  0,0015  
Aquatic Acute 1 H410 M = 100  
Aquatic Chronic 1 H410 M = 100  
1  
Eye Dam. 1 H318  $\geq$  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<sup>3</sup> 20 ppm(V)  
 Short term exposure limit 104 mg/m<sup>3</sup> 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      | Worker                         |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | 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      | Consumer                       |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | 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

|   |                  |     |    |
|---|------------------|-----|----|
| <b>Physical state</b>   | liquid           |     |    |
| <b>Colour</b>   | coloured         |     |    |
| <b>Odour</b>  | odourless        |     |    |
| <b>Melting point</b>  |                  |     |    |
| Remarks   | not determined   |     |    |
| <b>Freezing point</b>   |                  |     |    |
| Remarks   | not determined   |     |    |
| <b>Boiling point or initial boiling point and boiling range</b> |                  |     |    |
| Value   | appr. 100        |     | °C |
| Pressure  | 1.013            | hPa |    |
| Source  | Literature value |     |    |
| <b>Flammability</b>   |                  |     |    |
| 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 ( <i>Pimephales promelas</i> ) |   |      |
| 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 ( <i>Oncorhynchus mykiss</i> ) |   |      |
| 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.

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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**

|   | <b>Land transport ADR/RID</b>   | <b>Marine transport IMDG/GGVSee</b>                                      | <b>Air transport ICAO/IATA</b>   |
|---|---|--|--|
| <b>14.1. UN number</b>                  | 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.- |
| <b>14.2. UN proper shipping name</b>    | -   | -  | -  |
| <b>14.3. Transport hazard class(es)</b> | -   | -  | -  |
| Subsidiary risk                         |   | -  | -  |
| Label                                   |   |  |  |
| <b>14.4. Packing group</b>              | -   | -  | -  |
| Transport category                      | 0   |  |  |
| <b>14.5. Environmental hazards</b>      | -   | 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**

no

## **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 | 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.





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

### **1.1. Product identifier**

Marabu Fineliner Colour Hyp 24pcs MNA grey

### **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



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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  
 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  
 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**

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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

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

##### Ethenediol

|       |      |                   |  |
|-------|------|-------------------|--|
| List  | EH40 |                   |  |
| Type  | WEL  |                   |  |
| Value | 10   | mg/m <sup>3</sup> |  |

Skin resorption / sensibilisation: Sk: 2011

##### Ethenediol

|                           |     |                   |    |        |
|---------------------------|-----|-------------------|----|--------|
| List                      | EU  |                   |    |        |
| Value                     | 52  | mg/m <sup>3</sup> | 20 | ppm(V) |
| Short term exposure limit | 104 | mg/m <sup>3</sup> | 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      | Worker                         |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | 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      | Consumer                       |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | 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**

|   |                  |     |    |
|---|------------------|-----|----|
| <b>Physical state</b>   | liquid           |     |    |
| <b>Colour</b>   | coloured         |     |    |
| <b>Odour</b>  | odourless        |     |    |
|   |                  |     |    |
| <b>Melting point</b>  |                  |     |    |
| Remarks   | not determined   |     |    |
|   |                  |     |    |
| <b>Freezing point</b>   |                  |     |    |
| Remarks   | not determined   |     |    |
|   |                  |     |    |
| <b>Boiling point or initial boiling point and boiling range</b> |                  |     |    |
| Value   | appr. 100        |     | °C |
| Pressure  | 1.013            | hPa |    |
| Source  | Literature value |     |    |
|   |                  |     |    |
| <b>Flammability</b>   |                  |     |    |
| 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 ( <i>Pimephales promelas</i> ) |   |      |
| 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 ( <i>Oncorhynchus mykiss</i> ) |   |      |
| 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.



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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**

|   | <b>Land transport ADR/RID</b>   | <b>Marine transport IMDG/GGVSee</b>                                      | <b>Air transport ICAO/IATA</b>   |
|---|---|--|--|
| <b>14.1. UN number</b>                  | 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.- |
| <b>14.2. UN proper shipping name</b>    | -   | -  | -  |
| <b>14.3. Transport hazard class(es)</b> | -   | -  | -  |
| Subsidiary risk                         |   | -  | -  |
| Label                                   |   |  |  |
| <b>14.4. Packing group</b>              | -   | -  | -  |
| Transport category                      | 0   |  |  |
| <b>14.5. Environmental hazards</b>      | -   | 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**

no

## **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 | 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.

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

### **1.1. Product identifier**

Marabu Fineliner Colour Hyp 24pcs MNA light blue

### **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



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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

**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  $\geq$  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  
Eye Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)  
Skin Corr. 1C H314  $\geq$  0,6  
Eye Irrit. 2 H319  $\geq$  0,06 < 0,6  
Skin Irrit. 2 H315  $\geq$  0,06 < 0,6  
Skin Sens. 1 H317  $\geq$  0,0015  
Aquatic Acute 1 H410 M = 100  
Aquatic Chronic 1 H410 M = 100  
1  
Eye Dam. 1 H318  $\geq$  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 (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

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 <sup>3</sup> | 20 | ppm(V) |
| Short term exposure limit | 104 | mg/m <sup>3</sup> | 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      | Worker                         |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | 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      | Consumer                       |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | 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

|   |                  |     |    |
|---|------------------|-----|----|
| <b>Physical state</b>   | liquid           |     |    |
| <b>Colour</b>   | coloured         |     |    |
| <b>Odour</b>  | odourless        |     |    |
| <b>Melting point</b>  |                  |     |    |
| Remarks   | not determined   |     |    |
| <b>Freezing point</b>   |                  |     |    |
| Remarks   | not determined   |     |    |
| <b>Boiling point or initial boiling point and boiling range</b> |                  |     |    |
| Value   | appr. 100        |     | °C |
| Pressure  | 1.013            | hPa |    |
| Source  | Literature value |     |    |
| <b>Flammability</b>   |                  |     |    |
| 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**





Trade name: Marabu Fineliner Colour Hyp 24pcs MNA light blue

Version: 2 / GB

Date revised: 24.01.2020

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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 ( <i>Pimephales promelas</i> ) |   |      |
| 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 ( <i>Oncorhynchus mykiss</i> ) |   |      |
| 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.

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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**

|   | <b>Land transport ADR/RID</b>   | <b>Marine transport IMDG/GGVSee</b>                                      | <b>Air transport ICAO/IATA</b>   |
|---|---|--|--|
| <b>14.1. UN number</b>                  | 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.- |
| <b>14.2. UN proper shipping name</b>    | -   | -  | -  |
| <b>14.3. Transport hazard class(es)</b> | -   | -  | -  |
| Subsidiary risk                         |   | -  | -  |
| Label                                   |   |  |  |
| <b>14.4. Packing group</b>              | -   | -  | -  |
| Transport category                      | 0   |  |  |
| <b>14.5. Environmental hazards</b>      | -   | 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**

no

## **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 | 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.

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



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

### **1.1. Product identifier**

Marabu Fineliner Colour Hyp 24pcs MNA turquoise

### **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 \*\*\***

Ethenediol

CAS No.

107-21-1



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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

**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  $\geq 0,001$  < 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  
Eye Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)  
Skin Corr. 1C H314  $\geq 0,6$   
Eye Irrit. 2 H319  $\geq 0,06 < 0,6$   
Skin Irrit. 2 H315  $\geq 0,06 < 0,6$   
Skin Sens. 1 H317  $\geq 0,0015$   
Aquatic Acute 1 H410 M = 100  
Aquatic Chronic 1 H410 M = 100  
1  
Eye Dam. 1 H318  $\geq 0,6$  %

**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 (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

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 <sup>3</sup> | 20 | ppm(V) |
| Short term exposure limit                                    | 104 | mg/m <sup>3</sup> | 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      | Worker                         |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | 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      | Consumer                       |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | 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**

|   |                  |     |    |
|---|------------------|-----|----|
| <b>Physical state</b>   | liquid           |     |    |
| <b>Colour</b>   | coloured         |     |    |
| <b>Odour</b>  | odourless        |     |    |
|   |                  |     |    |
| <b>Melting point</b>  |                  |     |    |
| Remarks   | not determined   |     |    |
|   |                  |     |    |
| <b>Freezing point</b>   |                  |     |    |
| Remarks   | not determined   |     |    |
|   |                  |     |    |
| <b>Boiling point or initial boiling point and boiling range</b> |                  |     |    |
| Value   | appr. 100        |     | °C |
| Pressure  | 1.013            | hPa |    |
| Source  | Literature value |     |    |
|   |                  |     |    |
| <b>Flammability</b>   |                  |     |    |
| 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 ( <i>Pimephales promelas</i> ) |   |      |
| 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 ( <i>Oncorhynchus mykiss</i> ) |   |      |
| 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.



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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 IMDG/GGVSee   | Air transport ICAO/IATA  |
|---|---|--|--|
| <b>14.1. UN number</b>                  | 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.- |
| <b>14.2. UN proper shipping name</b>    | -   | -  | -  |
| <b>14.3. Transport hazard class(es)</b> | -   | -  | -  |
| Subsidiary risk                         |   | -  | -  |
| Label                                   |   |  |  |
| <b>14.4. Packing group</b>              | -   | -  | -  |
| Transport category                      | 0   |  |  |
| <b>14.5. Environmental hazards</b>      | -   | 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**

no

**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 | 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.