



Trade name: Marabu Fineliner Colour Rubinrot

Version: 2 / GB

Date revised: 03.03.2017

Substance number: 014600100-03

Replaces Version: 1 / GB

Print date: 13.03.18

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

1.1. Product identifier

Marabu Fineliner Colour Rubinrot

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

Use of the substance/preparation

Paint

Identified Uses

SU21

Consumer uses: Private households (= general public = consumers)

PC9a

Coatings and paints, thinners, paint removers

1.3. Details of the supplier of the safety data sheet

Address

Marabu GmbH & Co. KG

Asperger Strasse 4

71732 Tamm

Germany

Telephone no. +49-7141/691-0

Fax no. +49-7141/691-147

Information provided Department product safety

by / telephone

E-mail address of PRSI@marabu.de

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

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

EUH208 Contains

A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1), May produce an allergic reaction.

Supplemental information

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

Contains a biocidal product. A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1)

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients ***

3.2. Mixtures



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Chemical characterization

Paint based on water

Hazardous ingredients**Ethanediol**

| | | | | |
|------------------|------------------|---|----|---|
| CAS No. | 107-21-1 | | | |
| EINECS no. | 203-473-3 | | | |
| Registration no. | 01-2119456816-28 | | | |
| Concentration | >= 1 | < | 10 | % |

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

| | |
|--------------|------|
| Acute Tox. 4 | H302 |
| STOT RE 2 | H373 |

Bronopol (INN)

| | | | | |
|---------------|-----------|---|-----|---|
| CAS No. | 52-51-7 | | | |
| EINECS no. | 200-143-0 | | | |
| Concentration | >= 0,01 | < | 0,1 | % |

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

| | |
|-------------------|------|
| Eye Dam. 1 | H318 |
| Skin Irrit. 2 | H315 |
| STOT SE 3 | H335 |
| Acute Tox. 4 | H302 |
| Acute Tox. 4 | H312 |
| Aquatic Acute 1 | H400 |
| Aquatic Chronic 1 | H410 |

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

| | | |
|-------------------|------|--------|
| Aquatic Acute 1 | H400 | M = 10 |
| Aquatic Chronic 1 | H410 | M = 1 |

A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1)

| | | | | |
|---------------|------------|---|--------|---|
| CAS No. | 55965-84-9 | | | |
| Concentration | | < | 0,0015 | % |

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

| | |
|-------------------|------|
| Acute Tox. 3 | H331 |
| Aquatic Chronic 1 | H410 |
| Aquatic Acute 1 | H400 |
| Skin Sens. 1 | H317 |
| Skin Corr. 1B | H314 |
| Acute Tox. 3 | H311 |
| Acute Tox. 3 | H301 |

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

| | | |
|---------------|------|---------------|
| Skin Corr. 1B | H314 | >= 0,6 |
| Eye Irrit. 2 | H319 | <= 0,06 < 0,6 |
| Skin Irrit. 2 | H315 | <= 0,06 < 0,6 |
| Skin Sens. 1 | H317 | >= 0,0015 |

Further ingredients *****Glycerol**

| | | | | |
|---------------|-----------|---|----|-------|
| CAS No. | 56-81-5 | | | |
| EINECS no. | 200-289-5 | | | |
| Concentration | >= 10 | < | 25 | % [3] |



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[3] Substance with occupational exposure limits

SECTION 4: First aid measures

4.1. Description of first aid measures

After skin contact

Wash with plenty of water and soap. Do NOT use solvents or thinners.

After eye contact

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

After ingestion

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

4.2. Most important symptoms and effects, both acute and delayed

Until now no symptoms known so far.

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

Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, Foam, Sand, Water

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂); dense black smoke

5.3. Advice for firefighters

Other information

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No particular measures required.

6.2. Environmental precautions

No particular measures required.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage



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7.1. Precautions for safe handling

Advice on safe handling

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

Advice on protection against fire and explosion

No special measures required.

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

Temperature class T2

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in frostfree conditions.

Storage class according to TRGS 510

Storage class according to TRGS 510 12 Non-combustible liquids

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 ³ |
| Skin resorption / sensibilisation: Sk; Status: 2011 | | |

Glycerol

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

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



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| | | |
|----------------------|--------------------------------|-------------------|
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 7 | mg/m ³ |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long term | |
| Route of exposure | dermal | |
| Mode of action | Systemic effects | |
| Concentration | 53 | mg/kg |

Predicted No Effect Concentration (PNEC)

Ethanediol

| | | |
|---------------|------------------------------|-------|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 10 | mg/l |
| Type of value | PNEC | |
| Type | Saltwater | |
| Concentration | 1 | mg/l |
| Type of value | PNEC | |
| Type | Water (intermittent release) | |
| Concentration | 10 | mg/l |
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 199,5 | mg/l |
| Type of value | PNEC | |
| Type | Freshwater sediment | |
| Concentration | 37 | mg/kg |
| Type of value | PNEC | |
| Type | Marine sediment | |
| Concentration | 3,7 | mg/kg |
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 1,53 | mg/kg |

8.2. Exposure controls

Exposure controls

Provide adequate ventilation.

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



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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**

| | | | |
|---|---------------------------------|-----|------|
| Form | liquid | | |
| Colour | coloured | | |
| Odour | odourless | | |
| Odour threshold | | | |
| Remarks | No data available | | |
| Melting point | | | |
| Remarks | not determined | | |
| Freezing point | | | |
| Remarks | not determined | | |
| Initial boiling point and boiling range | | | |
| Value | appr. 100 | | °C |
| Pressure | 1.013 | hPa | |
| Source | Literature value | | |
| Flash point | | | |
| Remarks | Not applicable | | |
| Evaporation rate (ether = 1) : | | | |
| Remarks | not determined | | |
| Flammability (solid, gas) | | | |
| Not applicable | | | |
| Upper/lower flammability or explosive limits | | | |
| Lower explosion limit | appr. 3,2 | | %(V) |
| Upper explosion limit | appr. 53 | | %(V) |
| Source | Literature value | | |
| Vapour pressure | | | |
| Value | appr. 23 | | hPa |
| Temperature | 20 | °C | |
| Method | Value taken from the literature | | |
| Vapour density | | | |
| Remarks | not determined | | |
| Density | | | |
| Remarks | not determined | | |
| Solubility in water | | | |
| Remarks | miscible | | |



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Ignition temperature

| | | |
|--------|------------------|----|
| Value | appr. 410 | °C |
| Source | Literature value | |

Viscosity

| | |
|---------|----------------|
| Remarks | |
| Remarks | not determined |

9.2. Other information

Other information

None known

SECTION 10: Stability and reactivity

10.1. Reactivity

None

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

No hazardous reactions known.

10.5. Incompatible materials

None

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

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

Acute dermal toxicity

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

Acute inhalational toxicity

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

Skin corrosion/irritation

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

Serious eye damage/irritation

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

Sensitization

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

Mutagenicity

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

Reproductive toxicity

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

Carcinogenicity

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



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Specific Target Organ Toxicity (STOT)

Single exposure

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

Repeated exposure

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

Aspiration hazard

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

Experience in practice

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

Other information

There are no data available on the mixture itself.

The mixture has been assessed following the additivity method of the GHS/CLP Regulation (EC) No 1272/2008.

SECTION 12: Ecological information

12.1. Toxicity

General information

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

12.2. Persistence and degradability

General information

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

General information

There are no data available on the mixture itself.

12.4. Mobility in soil

General information

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

General information

There are no data available on the mixture itself.

12.6. Other adverse effects

General information

There are no data available on the mixture itself.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

The product can be placed with other household refuse. Small residues in containers can be washed-out with water and put into the drainage system.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off as product waste.

Completely emptied packagings can be given for recycling.



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SECTION 14: Transport information

Land transport ADR/RID

Non-dangerous goods

14.1. UN number

UN -

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

Class -

Label -

14.4. Packing group

Packing group -

Transport category 0

14.5. Environmental hazards

-

Marine transport IMDG/GGVSee

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

14.1. UN number

UN -

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

Class -

Subsidiary risk -

14.4. Packing group

Packing group -

14.5. Environmental hazards

no

Air transport ICAO/IATA

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

14.1. UN number

UN -

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

Class -

Subsidiary risk -

14.4. Packing group

Packing group -

14.5. Environmental hazards

-

Information for all modes of transport

14.6. Special precautions for user

Transport within the user's premises:

Always transport in closed containers that are upright and secure.

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

Other information

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

no

SECTION 15: Regulatory information ***

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



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or mixture**VOC *****

VOC (EU) 0 %

Other information

All components are contained in the TSCA inventory or exempted.
 All components are contained in the AICS inventory.
 All components are contained in the PICCS inventory.
 All components are contained in the DSL inventory.
 All components are contained in the IECSC inventory.
 All components are contained in the NZIOC inventory.
 All components are contained in the ENCS inventory.
 All components are contained in the ECL inventory.

15.2. Chemical safety assessment

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

SECTION 16: Other information**Hazard statements listed in Chapter 3**

| | |
|------|--|
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H331 | Toxic if inhaled. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure: |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

CLP categories listed in Chapter 3

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

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
 This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.
 The information in this Safety Data Sheet is based on the present state of knowledge and current legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.
 The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

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

The information contained in this safety data sheet does not constitute the user's own assessment of

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



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workplace risks, as required by other health and safety legislation.