



Trade name: Marabu-Fixiermittel, 25 ml

Version: 4 / GB

Date revised: 21.01.2015

Substance number: 173722000

Replaces Version: 3 / GB

Print date: 12.07.16

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

1.1. Product identifier

Marabu-Fixiermittel, 25 ml

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

Use of the substance/preparation

Fixing medium for batik and dyeing

Identified Uses

SU21

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

PC34

Textile dyes, finishing and impregnating products; including bleaches and other processing aids

1.3. Details of the supplier of the safety data sheet

Address

Marabu GmbH & Co. KG

Asperger Strasse 4

71732 Tamm

Germany

Telephone no.

+49-7141/691-0

Fax no.

+49-7141/691-147

Information provided
by / telephone

Department product safety

E-mail address of

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

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.

SECTION 3: Composition/information on ingredients ***

Chemical characterization

Water-borne solution of a polyamine derivative

Hazardous ingredients ***

n-(2-Aminoethyl)ethane-1,2-diamine; 2-cyanoguanidine; hydrochloride



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Cyanamide derivative/polyamine-condensation product

CAS No. 70893-01-5

Concentration \geq 2,5 < 10 %Classification (Regulation (EC) No. 1272/2008)
Aquatic Chronic 2 H411**Polydiallylmethylammoniumchloride**

CAS No. 26062-79-3

Concentration \geq 1 < 10 %Classification (Regulation (EC) No. 1272/2008)
Aquatic Chronic 3 H412**2,2'-Oxybisethanol**

CAS No. 111-46-6

EINECS no. 203-872-2

Registration no. 01-2119457857-21

Concentration \geq 1 < 10 %Classification (Regulation (EC) No. 1272/2008)
Acute Tox. 4 H302
STOT RE 2 H373**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated clothing immediately and dispose of safely.

After inhalation

In the event of symptoms take medical treatment.

After skin contact

After contact with skin, wash immediately with plenty of water and soap.

After eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

After ingestion

Take medical treatment. Do not induce vomiting.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Extinguishing measures to suit surroundings, Carbon dioxide, Foam, Dry chemical extinguisher, Water spray jet

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixtureIn the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂); dense black smoke; Nitrogen oxides (NO_x); Hydrogen halide**5.3. Advice for firefighters**



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Special protective equipment for fire-fighting

protective clothing. Use self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in Sections 7 and 8. Ensure adequate ventilation.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water.

6.3. Methods and material for containment and cleaning up

Prevent spread over a wide area (by containment with sand or earth). Take up with absorbent material (eg sand, kieselguhr, universal binder). When picked up, treat material as prescribed under Section 13 "Disposal".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Comply with the health and safety at work laws. For personal protection see Section 8.

Advice on protection against fire and explosion

No special measures required.

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

Temperature class T6

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in accordance with national regulation

Further information on storage conditions

Keep container tightly closed. Protect from frost. Keep at temperature not exceeding 30 °C. Protect from heat and direct sunlight.

7.3. Specific end use(s)

Fixing medium for batik and dyeing

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

2,2'-Oxybisethanol

| | | | | |
|--------------|------|-------------------|----|--------|
| List | EH40 | | | |
| Type | WEL | | | |
| Value | 101 | mg/m ³ | 23 | ppm(V) |
| Status: 2011 | | | | |

Other information

There are not known any further control parameters.

Derived No/Minimal Effect Levels (DNEL/DMEL)

2,2'-Oxybisethanol

| | |
|----------------------|--------------------------------|
| Type of value | Derived No Effect Level (DNEL) |
| Reference group | Worker |
| Duration of exposure | Long term |



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| | | |
|----------------------|--------------------------------|-------------------|
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 60 | 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/d |
| 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 | 12 | 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/d |

Predicted No Effect Concentration (PNEC)

2,2'-Oxybisethanol

| | | |
|---------------|------------------------------|-------|
| 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 | 20,9 | mg/kg |
| Type of value | PNEC | |
| Type | Marine sediment | |
| Concentration | 2,09 | mg/kg |
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 1,53 | mg/kg |

8.2. Exposure controls



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Exposure controls

Provide adequate ventilation.

General protective and hygiene measures

Avoid contact with skin and eyes. Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and after work. Use barrier skin cream. Do not eat, drink or smoke during work time.

Respiratory protection

Not necessary, but do not inhale vapours.

Hand protection

Protective gloves

Appropriate Material nitrile

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

Tightly fitting safety glasses

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Form** liquid**Colour** yellowish**Odour** weak**Odour threshold**

Remarks No data available

pH value

| | | | |
|--------------------------------|-------|-----|-----|
| Value | appr. | 6 | |
| Concentration/H ₂ O | | 100 | g/l |
| Temperature | | 20 | °C |

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 determined



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Upper/lower flammability or explosive limits

Remarks not determined

Vapour pressure

| | | | |
|-------------|----|----|-----|
| Value | 23 | | hPa |
| Temperature | 20 | °C | |

Vapour density

Remarks not determined

Density

| | | | |
|-------------|-----------------|----|-------------------|
| Value | appr. 1,0 | | g/cm ³ |
| Temperature | 20 | °C | |
| Method | DIN EN ISO 2811 | | |

Solubility in water

Remarks miscible

Ignition temperature

Value > 100 °C

Decomposition temperature

Remarks No decomposition if used as prescribed.

Viscosity

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

9.2. Other information**Other information**

None known

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Stable under recommended storage and handling conditions (see section 7).

Decomposition temperature

Remarks No decomposition if used as prescribed.

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

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



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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 conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Dispose of waste according to applicable legislation.

Disposal recommendations for packaging

Completely emptied packagings can be given for recycling.

SECTION 14: Transport information

Land transport ADR/RID

Non-dangerous goods

14.1. UN number

UN -

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

Class -

Label -

14.4. Packing group

Packing group -

Transport category 0

14.5. Environmental hazards

-

Marine transport IMDG/GGVSee

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

14.1. UN number

UN -

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

Class -

Subsidiary risk -

14.4. Packing group

Packing group -

14.5. Environmental hazards

no

Air transport ICAO/IATA

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

14.1. UN number

UN -

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)



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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 MARPOL73/78 and the IBC Code

no

SECTION 15: Regulatory information

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

VOC

VOC (EU) 1,9 % 19 g/l

Other information

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

Other information

All components are contained in the TSCA inventory or exempted.

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 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

| | |
|------|--|
| H302 | Harmful if swallowed. |
| H373 | May cause damage to organs through prolonged or repeated exposure: |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

CLP categories listed in Chapter 3

| | |
|-------------------|--|
| Acute Tox. 4 | Acute toxicity, Category 4 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment, chronic, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment, chronic, Category 3 |
| 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.

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



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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.