

**Trade name:** NanoMagicShampoo**Product no.:** 206999**Current version :** 1.2.0, issued: 23.03.2022**Replaced version:** 1.1.0, issued: 19.04.2021**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

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

Cleaner

**Uses advised against**

No data available.

**1.3 Details of the supplier of the safety data sheet****Address**

Koch-Chemie GmbH

Einsteinstr. 42

D-59423 Unna

Telephone no. +49-2303-9 86 70-0

Fax no. +49-2303-9 86 70-26

**Advice on Safety Data Sheet**

sdb\_info@umco.de

**1.4 Emergency telephone number**

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

For information in the event of an emergency during transport:

+44 1865 407333

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Chronic 3; H412

Eye Irrit. 2; H319

Skin Irrit. 2; H315

**Classification information**

Classification and labelling with respect to Serious eye damage/eye irritation are based on toxicological studies performed on the product (mixture).

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS07

**Signal word**

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Warning

**Hazard statement(s)**

H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H412 Harmful to aquatic life with long lasting effects.

**Precautionary statement(s)**

P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P501 Dispose of contents/container to a facility in accordance with local and national regulations.

**Supplemental label elements**

Regulation (EC) No 648/2004 on detergents (Annex VII):  
 5-15% amphoteric surfactants  
 5-15% non-ionic surfactants  
 <5% cationic surfactants  
 Perfumings  
 LINALOOL

**2.3 Other hazards**

PBT assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.

vPvB assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures****Hazardous ingredients**

| No | Substance name   |   | Additional information |     |
|----|--|---|------------------------|-----|
|    | CAS / EC / Index / REACH no  | Classification (EC) 1272/2008 (CLP)   | Concentration          | %   |
| 1  | <b>1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 (even numbered) acyl derivs., hydroxides, inner salts</b> |   |                        |     |
|    | 97862-59-4<br>931-296-8<br>-<br>01-2119488533-30   | Aquatic Chronic 3; H412<br>Eye Dam. 1; H318   | >= 10.00 - < 25.00     | wt% |
| 2  | <b>2-butoxyethanol</b>   |   |                        |     |
|    | 111-76-2<br>203-905-0<br>603-014-00-0<br>01-2119475108-36  | Acute Tox. 4; H302<br>Acute Tox. 4; H312<br>Acute Tox. 4; H332<br>Eye Irrit. 2; H319<br>Skin Irrit. 2; H315 | >= 5.00 - < 10.00      | wt% |

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|   |  |  |                            |
|---|--|--|----------------------------|
| 3 | <b>Amides, C8-18 (even numbered) and C18- unsatd.,N, N-bis (hydroxyethyl)</b>  |  |                            |
|   | 68155-07-7<br>931-329-6<br>-<br>01-2119490100-53   | Aquatic Chronic 2; H411<br>Eye Dam. 1; H318<br>Skin Irrit. 2; H315 | < 5.00<br>wt%              |
| 4 | <b>1-Propanamine, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, ester with fatty acids, C18 unsaturated, Me sulphates (salts)</b>             |  |                            |
|   | -<br>939-685-4<br>-<br>01-2119983493-26  | Aquatic Chronic 3; H412<br>Eye Dam. 1; H318<br>Skin Irrit. 2; H315 | < 5.00<br>wt%              |
| 5 | <b>Siloxanes and Silicones, di-Me, 3-[3-[(3-coco amidopropyl)dimethylammonio]-2-hydroxypropoxy]propyl group-terminated, acetates (salts)</b> |  |                            |
|   | 134737-05-6<br>-<br>-<br>-   | Aquatic Acute 1; H400<br>Aquatic Chronic 2; H411                   | < 2.50<br>wt%              |
| 6 | <b>octamethylcyclotetrasiloxane</b>  |  | pls. refer to footnote (2) |
|   | 556-67-2<br>209-136-7<br>014-018-00-1<br>01-2119529238-36  | Flam. Liq. 3; H226<br>Repr. 2; H361f<br>Aquatic Chronic 1; H410    | < 0.10<br>wt%              |

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(2) According to the latest state of knowledge and applying the criteria set out in annex I to Regulation (EC) No 1272/2008, the aforementioned classification is required. This classification goes beyond the classification set out in table 3, Annex VI to Regulation (CE) No 1272/2008.

| No | Note | Specific concentration limits                             | M-factor (acute) | M-factor (chronic) |
|----|------|---|------------------|--------------------|
| 1  | -    | Eye Irrit. 2; H319: C >= 4%<br>Eye Dam. 1; H318: C >= 10% | -                | -                  |
| 6  | -    | -   | -                | M = 10             |

**Acute toxicity estimate (ATE) values**

| No | oral                  | dermal | inhalative |
|----|-----------------------|--------|------------|
| 2  | 1746 mg/kg bodyweight |        |            |

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of persisting adverse effects, consult a physician.

**After inhalation**

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air.

**After skin contact**

Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

**After eye contact**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

**After ingestion**

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor immediately.

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

No data available.

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

No data available.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing media**

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

**Unsuitable extinguishing media**

High power water jet

#### 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>); Sulphur oxides (S<sub>x</sub>O<sub>y</sub>); Nitrogen oxides (NO<sub>x</sub>)

#### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear full protective suit. Do not allow run-off from fire fighting to enter drains or water courses.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Use personal protective clothing.

**For emergency responders**

Personal protective equipment (PPE) - see section 8.

#### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. In case of entry into waterways, soil or drains, inform the responsible authorities.

#### 6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

#### 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**

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

**General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing. Have emergency shower available. Provide eye wash fountain in work area.

#### 7.2 Conditions for safe storage, including any incompatibilities

**Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place.

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**Requirements for storage rooms and vessels**

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

**Incompatible products**

Substances to be avoided, see section 10.

**7.3 Specific end use(s)**

No data available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limit values**

| No | Substance name  | CAS no.  | EC no.                   |
|----|---|----------|--------------------------|
| 1  | 2-butoxyethanol   | 111-76-2 | 203-905-0                |
|    | 2000/39/EC  |          |                          |
|    | 2-Butoxyethanol   |          |                          |
|    | WEL short-term (15 min reference period)                        | 246      | mg/m <sup>3</sup> 50 ppm |
|    | WEL long-term (8-hr TWA reference period)                       | 98       | mg/m <sup>3</sup> 20 ppm |
|    | Skin resorption / sensibilisation                               | Skin     |                          |
|    | <b>List of approved workplace exposure limits (WELs) / EH40</b> |          |                          |
|    | 2-Butoxyethanol   |          |                          |
|    | WEL short-term (15 min reference period)                        | 246      | mg/m <sup>3</sup> 50 ppm |
|    | WEL long-term (8-hr TWA reference period)                       | 123      | mg/m <sup>3</sup> 25 ppm |
|    | Comments  | Sk, BMGV |                          |

**DNEL, DMEL and PNEC values****DNEL values (worker)**

| No | Substance name   | CAS / EC no         |          |                           |
|----|--|---------------------|----------|---------------------------|
|    | Route of exposure  | Exposure time       | Effect   | Value                     |
| 1  | <b>1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 (even numbered) acyl derivs., hydroxides, inner salts</b>   |                     |          |                           |
|    | dermal   | Long term (chronic) | systemic | 12.5 mg/kg/day            |
|    | inhalative   | Long term (chronic) | systemic | 44 mg/m <sup>3</sup>      |
| 2  | <b>2-butoxyethanol</b>   |                     |          |                           |
|    | inhalative   | Long term (chronic) | systemic | 98.00 mg/m <sup>3</sup>   |
|    | inhalative   | Short term (acut)   | systemic | 1091.00 mg/m <sup>3</sup> |
|    | inhalative   | Long term (chronic) | local    | 246.00 mg/m <sup>3</sup>  |
| 3  | <b>Amides, C8-18 (even numbered) and C18- unsatd.,N, N-bis (hydroxyethyl)</b>  |                     |          |                           |
|    | dermal   | Long term (chronic) | systemic | 4.16 mg/kg/day            |
|    | dermal   | Long term (chronic) | local    | 0.09 mg/cm <sup>2</sup>   |
|    | inhalative   | Long term (chronic) | systemic | 73.4 mg/m <sup>3</sup>    |
| 4  | <b>1-Propanamine, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, ester with fatty acids, C18 unsaturated, Me sulphates (salts)</b> |                     |          |                           |
|    | dermal   | Long term (chronic) | systemic | 112.5 mg/kg/day           |
|    | inhalative   | Long term (chronic) | systemic | 8.72 mg/m <sup>3</sup>    |

**DNEL value (consumer)**

| No | Substance name   | CAS / EC no         |          |               |
|----|--|---------------------|----------|---------------|
|    | Route of exposure  | Exposure time       | Effect   | Value         |
| 1  | <b>1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 (even numbered) acyl derivs., hydroxides, inner salts</b> |                     |          |               |
|    | oral   | Long term (chronic) | systemic | 7.5 mg/kg/day |

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|   |  |                     |          |                                       |                    |
|---|--|---------------------|----------|---------------------------------------|--------------------|
|   | dermal   | Long term (chronic) | systemic | 7.5                                   | mg/kg/day          |
|   | inhalative   | Long term (chronic) | systemic | 13.04                                 | mg/m <sup>3</sup>  |
| 2 | <b>2-butoxyethanol</b>   |                     |          | <b>111-76-2</b><br><b>203-905-0</b>   |                    |
|   | oral   | Long term (chronic) | systemic | 6.30                                  | mg/kg/day          |
|   | oral   | Short term (acut)   | systemic | 26.70                                 | mg/kg/day          |
|   | inhalative   | Long term (chronic) | systemic | 59.00                                 | mg/m <sup>3</sup>  |
|   | inhalative   | Short term (acut)   | systemic | 426.00                                | mg/m <sup>3</sup>  |
|   | inhalative   | Long term (chronic) | local    | 147.00                                | mg/m <sup>3</sup>  |
| 3 | <b>Amides, C8-18 (even numbered) and C18- unsatd.,N, N-bis (hydroxyethyl)</b>  |                     |          | <b>68155-07-7</b><br><b>931-329-6</b> |                    |
|   | oral   | Long term (chronic) | systemic | 6.25                                  | mg/kg/day          |
|   | dermal   | Long term (chronic) | systemic | 2.5                                   | mg/kg/day          |
|   | dermal   | Long term (chronic) | local    | 0.056                                 | mg/cm <sup>2</sup> |
|   | inhalative   | Long term (chronic) | systemic | 21.73                                 | mg/m <sup>3</sup>  |
| 4 | <b>1-Propanamine, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, ester with fatty acids, C18 unsaturated, Me sulphates (salts)</b> |                     |          | <b>-</b><br><b>939-685-4</b>          |                    |
|   | oral   | Long term (chronic) | systemic | 1.25                                  | mg/kg/day          |
|   | dermal   | Long term (chronic) | systemic | 56.25                                 | mg/kg/day          |
|   | inhalative   | Long term (chronic) | systemic | 2.17                                  | mg/m <sup>3</sup>  |

## PNEC values

| No | Substance name   | CAS / EC no                           |
|----|--|---------------------------------------|
|    | ecological compartment   | Type                                  |
|    |  | Value                                 |
| 1  | <b>1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 (even numbered) acyl derivs., hydroxides, inner salts</b> | <b>97862-59-4</b><br><b>931-296-8</b> |
|    | water  | fresh water                           |
|    | water  | marine water                          |
|    | water  | fresh water sediment                  |
|    | water  | marine water sediment                 |
|    | soil   | -                                     |
|    | sewage treatment plant   | -                                     |
|    |  | 0.013 mg/L                            |
|    |  | 0.001 mg/L                            |
|    |  | 11.1 mg/kg dry weight                 |
|    |  | 1.11 mg/kg dry weight                 |
|    |  | 0.85 mg/kg dry weight                 |
|    |  | 3000 mg/L                             |
| 2  | <b>2-butoxyethanol</b>   | <b>111-76-2</b><br><b>203-905-0</b>   |
|    | water  | fresh water                           |
|    | water  | marine water                          |
|    | water  | fresh water sediment                  |
|    |  | with reference to: dry weight         |
|    | water  | marine water sediment                 |
|    | water  | Aqua intermittent                     |
|    | soil   | -                                     |
|    | sewage treatment plant   | -                                     |
|    | secondary poisoning  | -                                     |
|    |  | 8.80 mg/L                             |
|    |  | 0.88 mg/L                             |
|    |  | 34.60 mg/kg                           |
|    |  | 3.46 mg/kg                            |
|    |  | 26.4 mg/L                             |
|    |  | 2.33 mg/kg dry weight                 |
|    |  | 463.00 mg/L                           |
|    |  | 0.02 mg/kg food                       |
| 3  | <b>Amides, C8-18 (even numbered) and C18- unsatd.,N, N-bis (hydroxyethyl)</b>  | <b>68155-07-7</b><br><b>931-329-6</b> |
|    | water  | fresh water                           |
|    | water  | marine water                          |
|    | water  | Aqua intermittent                     |
|    | water  | fresh water sediment                  |
|    |  | with reference to: dry weight         |
|    | soil   | -                                     |
|    |  | with reference to: dry weight         |
|    | sewage treatment plant   | -                                     |
|    |  | 7 µg/L                                |
|    |  | 0.7 µg/L                              |
|    |  | 24 µg/L                               |
|    |  | 42.4 µg/kg                            |
|    |  | 18.9 µg/kg                            |
|    |  | 830 mg/L                              |
| 4  | <b>1-Propanamine, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, ester with</b>  | <b>-</b>                              |

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| fatty acids, C18 unsaturated, Me sulphates (salts) |                       | 939-685-4 |                  |
|--|-----------------------|-----------|------------------|
| water  | fresh water           | 0.017     | mg/L             |
| water  | marine water          | 0.002     | mg/L             |
| water  | fresh water sediment  | 1.7       | mg/kg dry weight |
| water  | marine water sediment | 0.17      | mg/kg dry weight |
| soil   | -                     | 0.331     | mg/kg dry weight |
| sewage treatment plant                             | -                     | 10        | mg/L             |

## 8.2 Exposure controls

### Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. If ventilation insufficient, use a respiratory protection apparatus.

Respirator A

#### Eye / face protection

Tightly fitting safety glasses (EN 166).

#### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific workstation suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

|                      |       |     |     |
|----------------------|-------|-----|-----|
| Appropriate Material | butyl |     |     |
| Material thickness   | >     | 0.5 | mm  |
| Breakthrough time    | >     | 120 | min |

#### Other

Chemical-resistant work clothes.

#### Environmental exposure controls

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                      |     |
|--------------------------------------|-----|
| <b>State of aggregation</b>          |     |
| liquid                               |     |
| <b>Form/Colour</b>                   |     |
| liquid                               |     |
| yellow; green                        |     |
| <b>Odour</b>                         |     |
| fruity                               |     |
| <b>pH value</b>                      |     |
| Value                                | 5.5 |
| <b>Boiling point / boiling range</b> |     |
| No data available                    |     |

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|  |  |                   |               |
|--|--|-------------------|---------------|
| <b>Melting point/freezing point</b>                      |  |                   |               |
| No data available  |  |                   |               |
| <b>Decomposition temperature</b>                         |  |                   |               |
| No data available  |  |                   |               |
| <b>Flash point</b>                                       |  |                   |               |
| No data available  |  |                   |               |
| <b>Ignition temperature</b>                              |  |                   |               |
| No data available  |  |                   |               |
| <b>Flammability</b>                                      |  |                   |               |
| No data available  |  |                   |               |
| <b>Lower explosion limit</b>                             |  |                   |               |
| No data available  |  |                   |               |
| <b>Upper explosion limit</b>                             |  |                   |               |
| No data available  |  |                   |               |
| <b>Vapour pressure</b>                                   |  |                   |               |
| No data available  |  |                   |               |
| <b>Relative vapour density</b>                           |  |                   |               |
| No data available  |  |                   |               |
| <b>Relative density</b>                                  |  |                   |               |
| No data available  |  |                   |               |
| <b>Density</b>   |  |                   |               |
| Value  | 1.01   | g/cm <sup>3</sup> |               |
| Reference temperature                                    | 20   | °C                |               |
| <b>Solubility</b>  |  |                   |               |
| No data available  |  |                   |               |
| <b>Partition coefficient n-octanol/water (log value)</b> |  |                   |               |
| <b>No</b>  | <b>Substance name</b>  | <b>CAS no.</b>    | <b>EC no.</b> |
| 1  | 2-butoxyethanol  | 111-76-2          | 203-905-0     |
| log Pow  |  | 0.81              |               |
| Reference temperature                                    |  | 20                | °C            |
| Method   |  | calculated        |               |
| Source   |  | ECHA              |               |
| 2  | Amides, C8-18 (even numbered) and C18- unsatd.,N, N-bis (hydroxyethyl) | 68155-07-7        | 931-329-6     |
| log Pow  |  | appr. 1.35        | - 4.84        |
| Reference temperature                                    |  | 20                | °C            |
| Method   |  | OECD 117          |               |
| Source   |  | ECHA              |               |
| <b>Viscosity</b>   |  |                   |               |
| No data available  |  |                   |               |
| <b>Particle characteristics</b>                          |  |                   |               |
| No data available  |  |                   |               |
| <b>9.2 Other information</b>                             |  |                   |               |
| <b>Other information</b>                                 |  |                   |               |
| No data available.                                       |  |                   |               |

**SECTION 10: Stability and reactivity**



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**10.1 Reactivity**

No data available.

**10.2 Chemical stability**

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

**10.3 Possibility of hazardous reactions**

Dangerous reactions are not to be expected when handling product according to its intended use.

**10.4 Conditions to avoid**

None, if handled according to intended use.

**10.5 Incompatible materials**

No data available.

**10.6 Hazardous decomposition products**

None, if handled according to intended use.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

| Acute oral toxicity (result of the ATE calculation for the mixture) |   |
|---|---|
| No  | Product Name  |
| 1   | NanoMagicShampoo  |
| Comments  | The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg). |

| Acute oral toxicity |  |            |                  |
|---------------------|--|------------|------------------|
| No                  | Substance name   | CAS no.    | EC no.           |
| 1                   | 2-butoxyethanol  | 111-76-2   | 203-905-0        |
| LD50                |  | 1746       | mg/kg bodyweight |
| Species             | rat  |            |                  |
| Method              | OECD 401   |            |                  |
| Source              | ECHA   |            |                  |
| 2                   | Amides, C8-18 (even numbered) and C18- unsatd.,N, N-bis (hydroxyethyl) | 68155-07-7 | 931-329-6        |
| LD50                | >  | 2000       | mg/kg bodyweight |
| Species             | rat  |            |                  |
| Method              | OECD 401   |            |                  |
| Source              | ECHA   |            |                  |

| Acute dermal toxicity (result of the ATE calculation for the mixture) |   |
|---|---|
| No  | Product Name  |
| 1   | NanoMagicShampoo  |
| Comments  | The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE dermal > 2000 mg/kg). |

| Acute dermal toxicity |                 |          |                  |
|-----------------------|-----------------|----------|------------------|
| No                    | Substance name  | CAS no.  | EC no.           |
| 1                     | 2-butoxyethanol | 111-76-2 | 203-905-0        |
| LD50                  | >               | 2000     | mg/kg bodyweight |
| Species               | guinea pig      |          |                  |
| Method                | OECD 402        |          |                  |

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|          |   |                   |                  |
|----------|---|-------------------|------------------|
| Source   | ECHA  |                   |                  |
| <b>2</b> | <b>Amides, C8-18 (even numbered) and C18- unsatd.,N, N-bis (hydroxyethyl)</b> | <b>68155-07-7</b> | <b>931-329-6</b> |
| LD50     | >   | 2000              | mg/kg bodyweight |
| Species  | rabbit  |                   |                  |
| Source   | ECHA  |                   |                  |

**Acute inhalational toxicity (result of the ATE calculation for the mixture)**

| No       | Product Name  |
|----------|---|
| <b>1</b> | <b>NanoMagicShampoo</b>   |
| Comments | The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE for inhalation: > 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists). |

**Acute inhalational toxicity**

| No                   | Substance name         | CAS no.         | EC no.           |
|----------------------|------------------------|-----------------|------------------|
| <b>1</b>             | <b>2-butoxyethanol</b> | <b>111-76-2</b> | <b>203-905-0</b> |
| ATE                  |                        | 1.5             | mg/l             |
| Duration of exposure |                        | 4               | h                |
| State of aggregation | Dust/mist              |                 |                  |
| Species              | rat                    |                 |                  |

**Skin corrosion/irritation**

| No                   | Substance name         | CAS no.         | EC no.           |
|----------------------|------------------------|-----------------|------------------|
| <b>1</b>             | <b>2-butoxyethanol</b> | <b>111-76-2</b> | <b>203-905-0</b> |
| Duration of exposure |                        | 4               | h                |
| Species              | rabbit                 |                 |                  |
| Method               | EU B.4                 |                 |                  |
| Source               | ECHA                   |                 |                  |
| Evaluation           | irritant               |                 |                  |

**Serious eye damage/irritation**

| No         | Product Name            |
|------------|-------------------------|
| <b>1</b>   | <b>NanoMagicShampoo</b> |
| Method     | OECD 437                |
| Evaluation | non-corrosive           |

**Respiratory or skin sensitisation**

| No                | Substance name         | CAS no.         | EC no.           |
|-------------------|------------------------|-----------------|------------------|
| <b>1</b>          | <b>2-butoxyethanol</b> | <b>111-76-2</b> | <b>203-905-0</b> |
| Route of exposure | Skin                   |                 |                  |
| Species           | guinea pig             |                 |                  |
| Method            | OECD 406               |                 |                  |
| Source            | ECHA                   |                 |                  |
| Evaluation        | non-sensitizing        |                 |                  |

**Germ cell mutagenicity**

| No                        | Substance name  | CAS no.         | EC no.           |
|---------------------------|---|-----------------|------------------|
| <b>1</b>                  | <b>2-butoxyethanol</b>  | <b>111-76-2</b> | <b>203-905-0</b> |
| Method                    | OECD 471  |                 |                  |
| Source                    | ECHA  |                 |                  |
| Evaluation/classification | Based on available data, the classification criteria are not met. |                 |                  |

**Reproduction toxicity**

No data available

**Carcinogenicity**

| No | Substance name | CAS no. | EC no. |
|----|----------------|---------|--------|
|----|----------------|---------|--------|

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| 1                         | 2-butoxyethanol   | 111-76-2 | 203-905-0 |
|---------------------------|---|----------|-----------|
| Species                   | rat   |          |           |
| Method                    | OECD 451  |          |           |
| Source                    | ECHA  |          |           |
| Evaluation/classification | Based on available data, the classification criteria are not met. |          |           |

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No data available

**Aspiration hazard**

No data available

**11.2 Information on other hazards****Endocrine disrupting properties**

No data available.

**Other information**

No data available.

**SECTION 12: Ecological information****12.1 Toxicity**

| <b>Toxicity to fish (acute)</b> |  |            |           |
|---------------------------------|--|------------|-----------|
| No                              | Substance name   | CAS no.    | EC no.    |
| 1                               | 2-butoxyethanol  | 111-76-2   | 203-905-0 |
| LC50                            | >  | 1474       | mg/l      |
| Duration of exposure            |  | 96         | h         |
| Species                         | Oncorhynchus mykiss  |            |           |
| Method                          | OECD 203   |            |           |
| Source                          | ECHA   |            |           |
| 2                               | Amides, C8-18 (even numbered) and C18- unsatd.,N, N-bis (hydroxyethyl) | 68155-07-7 | 931-329-6 |
| LC50                            |  | 2.4        | mg/l      |
| Duration of exposure            |  | 96         | h         |
| Species                         | Oncorhynchus mykiss  |            |           |
| Method                          | OECD 203   |            |           |
| Source                          | ECHA   |            |           |

| <b>Toxicity to fish (chronic)</b> |                 |          |           |
|-----------------------------------|-----------------|----------|-----------|
| No                                | Substance name  | CAS no.  | EC no.    |
| 1                                 | 2-butoxyethanol | 111-76-2 | 203-905-0 |
| NOEC                              | >               | 100      | mg/l      |
| Duration of exposure              |                 | 21       | day(s)    |
| Species                           | Danio rerio     |          |           |
| Method                            | OECD 204        |          |           |
| Source                            | ECHA            |          |           |

| <b>Toxicity to Daphnia (acute)</b> |  |            |           |
|------------------------------------|--|------------|-----------|
| No                                 | Substance name   | CAS no.    | EC no.    |
| 1                                  | 2-butoxyethanol  | 111-76-2   | 203-905-0 |
| EC50                               |  | 690        | mg/l      |
| Duration of exposure               |  | 48         | h         |
| Species                            | Daphnia magna  |            |           |
| Method                             | OECD 202   |            |           |
| Source                             | ECHA   |            |           |
| 2                                  | Amides, C8-18 (even numbered) and C18- unsatd.,N, N-bis (hydroxyethyl) | 68155-07-7 | 931-329-6 |

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|                      |               |      |
|----------------------|---------------|------|
| EC50                 | 3.2           | mg/l |
| Duration of exposure | 48            | h    |
| Species              | Daphnia magna |      |
| Method               | OECD 202      |      |
| Source               | ECHA          |      |

| Toxicity to Daphnia (chronic) |                 |          |           |
|-------------------------------|-----------------|----------|-----------|
| No                            | Substance name  | CAS no.  | EC no.    |
| 1                             | 2-butoxyethanol | 111-76-2 | 203-905-0 |
| NOEC                          | 100             | mg/l     |           |
| Duration of exposure          | 21              | day(s)   |           |
| Species                       | Daphnia magna   |          |           |
| Method                        | OECD 211        |          |           |
| Source                        | ECHA            |          |           |

| Toxicity to algae (acute) |                                 |          |           |
|---------------------------|---------------------------------|----------|-----------|
| No                        | Substance name                  | CAS no.  | EC no.    |
| 1                         | 2-butoxyethanol                 | 111-76-2 | 203-905-0 |
| EC50                      | 623                             | mg/l     |           |
| Duration of exposure      | 72                              | h        |           |
| Species                   | Pseudokirchneriella subcapitata |          |           |
| Method                    | OECD 201                        |          |           |
| Source                    | ECHA                            |          |           |

| Toxicity to algae (chronic) |  |  |  |
|-----------------------------|--|--|--|
| No data available           |  |  |  |

| Bacteria toxicity |  |  |  |
|-------------------|--|--|--|
| No data available |  |  |  |

## 12.2 Persistence and degradability

| Biodegradability |  |            |           |
|------------------|--|------------|-----------|
| No               | Substance name   | CAS no.    | EC no.    |
| 1                | 2-butoxyethanol  | 111-76-2   | 203-905-0 |
| Type             | aerobic biodegradation   |            |           |
| Value            | 90.4   | %          |           |
| Duration         | 28   | day(s)     |           |
| Method           | OECD 301 B   |            |           |
| Source           | ECHA   |            |           |
| Evaluation       | readily biodegradable  |            |           |
| 2                | Amides, C8-18 (even numbered) and C18- unsatd.,N, N-bis (hydroxyethyl) | 68155-07-7 | 931-329-6 |
| Value            | appr. 92.5   | %          |           |
| Duration         | 28   | day(s)     |           |
| Method           | OECD 301 B   |            |           |
| Source           | ECHA   |            |           |
| Evaluation       | readily biodegradable  |            |           |

## 12.3 Bioaccumulative potential

| Partition coefficient n-octanol/water (log value) |  |            |           |
|---|--|------------|-----------|
| No  | Substance name   | CAS no.    | EC no.    |
| 1   | 2-butoxyethanol  | 111-76-2   | 203-905-0 |
| log Pow   | 0.81   |            |           |
| Reference temperature                             | 20   | °C         |           |
| Method  | calculated   |            |           |
| Source  | ECHA   |            |           |
| 2   | Amides, C8-18 (even numbered) and C18- unsatd.,N, N-bis (hydroxyethyl) | 68155-07-7 | 931-329-6 |
| log Pow   | appr. 1.35 - 4.84  |            |           |
| Reference temperature                             | 20   | °C         |           |

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|        |          |
|--------|----------|
| Method | OECD 117 |
| Source | ECHA     |

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

| Results of PBT and vPvB assessment |  |
|------------------------------------|--|
| PBT assessment                     | According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.  |
| vPvB assessment                    | According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB. |

**12.6 Endocrine disrupting properties**

No data available.

**12.7 Other adverse effects**

No data available.

**12.8 Other information**

| Other information   |
|---|
| Do not discharge into drains or waters and do not dispose of in public landfills. |

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility. Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

**SECTION 14: Transport information****14.1 Transport ADR/RID/ADN**

The product is not subject to ADR/RID/ADN regulations.

**14.2 Transport IMDG**

The product is not subject to IMDG regulations.

**14.3 Transport ICAO-TI / IATA**

The product is not subject to ICAO-TI / IATA regulations.

**14.4 Other information**

No data available.

**14.5 Environmental hazards**

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

**14.6 Special precautions for user**

No data available.

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**14.7 Maritime transport in bulk according to IMO instruments**

Not relevant

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

**REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

|  |      |
|--|------|
| The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. | No 3 |
|--|------|

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

| No | Substance name               | CAS no.   | EC no.    | No |
|----|------------------------------|-----------|-----------|----|
| 1  | 2-butoxyethanol              | 111-76-2  | 203-905-0 | 75 |
| 2  | Acetic acid                  | 64-19-7   | 200-580-7 | 75 |
| 3  | citral                       | 5392-40-5 | 226-394-6 | 75 |
| 4  | linalool                     | 78-70-6   | 201-134-4 | 75 |
| 5  | octamethylcyclotetrasiloxane | 556-67-2  | 209-136-7 | 75 |

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is not subject to Part 1 or 2 of Annex I.

**Other regulations**

Adhere to the national sanitary and occupational safety regulations when using this product. Employment restrictions, according to the regulations for protection of expectant and nursing mothers and the youth health and safety regulations, serving to protect against hazardous materials, should be observed. The surfactants contained in this product comply with the DetVO 648/2004/EC.

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out for this mixture.

**SECTION 16: Other information****Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

**Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

|      |                               |
|------|-------------------------------|
| H226 | Flammable liquid and vapour.  |
| H302 | Harmful if swallowed.         |
| H312 | Harmful in contact with skin. |
| H318 | Causes serious eye damage.    |

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|       |   |
|-------|---|
| H332  | Harmful if inhaled.                                   |
| H361f | Suspected of damaging fertility.                      |
| 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.      |

**Creation of the safety data sheet**

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

**Alterations/supplements:**

Alterations to the previous edition are marked in the left-hand margin.

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