# **MACHEREY-NAGEL**



## **Safety Data Sheet**

## according to Regulations 1907/2006/EC (REACh) and 2015/830/EU

| REF: 931029               | VISOCOLOR ECO Total Hardness | Page: 1/10 |
|---------------------------|------------------------------|------------|
| Printing date: 01.10.2019 | Date of issue: 20.05.2019    |            |

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

| 1.1  | Product identifier<br>REF<br>Product name  | 931029<br>VISOCOLOR ECO Total Hardness  |
|------|--|---|
|      | REACH Registration number(s):<br>A registration number for the subs<br>the substance or its use is exclude                                   | see SECTION 3.1/3.2 or<br>tance(s) does not exist because the annual tonnage does not require registration or<br>ed from registration.                  |
|      |  | 1 x 8 mL GH-1<br>2 x 30 mL GH-2   |
| 1.2  | Relevant identified uses<br>Product for analytical use.  | e substance or mixture and uses advised against<br>cation according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0<br>itegrated into sections 1-16. |
| 1.3  | Details of the supplier of the s<br>Manufactured by:<br>MACHEREY-NAGEL GmbH & Co.<br>Neumann-Neander-Str. 6-8, 52355<br>Tel.: +49 2421 969 0 | KG  |
| 1.4  | Emergency telephone numbe  | r   |
|      | Outside Germany (DE): Call your r<br>DE: Gemeinsames Giftinformations  | egional Poisons Information Service or call local Life Saving Service.<br>szentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730                             |
|      | You find our current versions of SDS (22 lar   | nguages) in Internet: http://www.mn-net.com/SDS   |
| SECT | ON 2: Hazard identificatio   | n   |
| 20   | Classification of the complete   | ) product   |

### 2.0 Classification of the complete product

|                       | GHS02 GHS07               |
|-----------------------|---------------------------|
| Signal word           | WARNING                   |
| Hazard identification | Hazard classes/categories |
| H226                  | Flam. Liq. 3              |
| H315                  | Skin Irrit. 2             |
| H319                  | Eye Irrit. 2              |

.

### 2.1 Classification of the substance or mixture

8 mL GH-1





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## according to Regulations 1907/2006/EC (REACh) and 2015/830/EU

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| Signal word               | WARNING                      |            |
| Hazard identification     | Hazard classes/categories    |            |
| H226                      | Flam. Liq. 3                 |            |
| H315                      | Skin Irrit. 2                |            |
| H319                      | Eye Irrit. 2                 |            |
|                           |                              |            |
| 30 mL GH-2                |                              |            |

Signal word

Do not need labelling as hazardous

No hazard class

### 2.2 Label elements

According CLP directive inner packages must be only labelled with GHS symbol(s) and product identificator(s) (EU 1272/2008 Annex I - 1.5.1.2).

Harmful chemicals/mixtures with signal word: WARNING and highly flammable chemicals/mixtures must not be labelled with H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).

### 8 mL GH-1



Signal word: WARNING

### 30 mL GH-2

Do not need labelling as hazardous Signal word: -

#### 2.3 Other hazards

Possible hazards from physicochemical properties

In the case of pH values are less than 5 or higher than 9 then it is irritant. Flammable properties. ---

Information pertaining to particular risks to human and possible symptoms

Information pertaining to particular risks to the environment

Other hazards

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

### 3.1 Substances or 3.2 Mixtures

8 mL GH-1

| Chemical: trietha | anolamine  | CAS No.: 102-71-6                       |
|-------------------|--|---|
| Classification:   | H315, Skin Irrit. 2, H319, Eye Irrit. 2, H335, STOT SE 3   |   |
| Formula:          | C <sub>6</sub> H <sub>15</sub> NO <sub>3</sub>             |   |
| Pseudonym:        | 2,2',2"-nitrilotriethanol; tris(2-hydroxyethyl)amine       |   |
| TSCA Inventory:   | listed   |   |
| REACH Reg. No.:   | 01-2119486482-31-xxxx                                      |   |
| Dual-use:         | The application of this chemical is exempt from the regula | tion 2017/2268/EU (see IC350 remark 4). |
| EC No.:           | 203-049-8  | · · · · · · · · · · · · · · · · · · ·   |
| RTECS:            | KL9275000  |   |
| KE No.:           | KE-25940   |   |
| Concentration:    | 20 - <45 %   |   |
| acc. CLP (GHS):   | H315, Skin Irrit. 2, H319, Eye Irrit. 2                    |   |

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### according to Regulations 1907/2006/EC (REACh) and 2015/830/EU

| , If  |
|-------|
| y. If |
| •     |

#### 4.1.1 After SKIN Contact

Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use soap.

#### 4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open with eye washing bottle, eye douche or running water (protect intact eye).

#### 4.1.3 After INHALATION of vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. ---

#### 4.1.4 After ORAL Intake

After oral intake lots of water should be drunk after it has been ingested. ---



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

4.3 Indication of any immediate medical attention and special treatment needed No additionally recommendations. ---

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

- 5.2 Special hazards arising from the substance or mixture WARNING: Flammable (GHS regulation). May form explosive vapour-air mixtures. Formation of hazardous and caustic vapour-air mixtures possible.
- 5.3 Advice for firefighters

No, for listed product. Product package burns like paper or plastic.

Additional information 5.4

### SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Do not breathe vapours. Regular staff training is necessary.
- 6.2 **Environmental precautions** not necessary
- 6.3 Methods and material for containment and cleaning up Bind any escaping liquid with inert absorbent. Collect small amounts of leaked liquid and flush with water into drains.
- 6.4 **Reference to other sections**

### SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product.

- 7.2 Conditions for safe storage, including any incompatibilities The original product package of MACHEREY-NAGEL allows a safe storage. Storage class (VCI): 3 Water hazard class (DE): 2
- 7.2.1 Requirements for stock rooms and containers Keep original product packages tightly closed during handling and storage.
- 7.3 Specific end use(s) Product for analytical use.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

8 mL GH-1 Chemical: triethanolamine CAS No.: 102-71-6 DNEL: [derm] 6.3; [inh] 5 mg/m<sup>3</sup> DNEL = Derived No-Effect Level (for workers) PNEC (fresh water) : 0.32 mg/L PNEC = Predicted No Effected Concentration TRGS 900 (DE): - DFG: 5 E mg/m<sup>3</sup> E/e respirable Short-term exposure factor: I. (2) skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded SUVA(CH) MAK value: [MAK] 5 e/[STEL] 10 e mg/m<sup>3</sup>



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|---------------------|--|---|--|
|                     | NIOSH:   | not listed  |  |
|                     | [TWA] Time-weighted<br>OSHA:   | l average to a reference period of 8 hours, [STEL] Short-term ex<br>not listed  | xposure limit related to a 15-minute period  |
|                     | Chemical: <i>ethanol</i><br>DNEL:<br>DNEL = Derived No-I                             | [derm] 343 mg/kg; [inh] 950 mg/m³<br>Effect Level (for workers)   | CAS No.: 64-17-5   |
|                     | PNEC(fresh water) :<br>PNEC = Predicted No   | 0.96 mg/L<br>Deffected Concentration  |  |
|                     | TRGS 900 (DE):   | 200 mL/m³ / 380 mg/m³<br>E/e respirable   |  |
|                     |  | respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic  | (Z) not securely excluded / (Y) certainly excluded   |
|                     | SUVA(CH) MAK value:<br>NIOSH:<br>[TWA] Time-weighted<br>OSHA:                        | 500 ppm / 960 mg/m <sup>3</sup><br>[TWA] 1000 ppm / 1900 mg/m <sup>3</sup><br>I average to a reference period of 8 hours, [STEL] Short-term ex<br>[TWA] 1000 ppm / 1900 mg/m <sup>3</sup> | xposure limit related to a 15-minute period  |
|                     | Chemical: indicator of   |   | CAS No.: -   |
|                     | <b>30 mL GH-2</b><br>Chemical: ammonia<br>DNEL:                                      | solution<br>[inh] 14 mg/m³  | CAS No.: 1336-21-6   |
|                     |  | Effect Level (for workers)  |  |
|                     | PNEC = Predicted No<br>EU value:<br>TRGS 900 (DE):                                   | b Effected Concentration<br>20 ppm / 14 mg/m <sup>3</sup><br>20 ppm / 14 mg/m <sup>3</sup><br>E/e respirable  |  |
|                     | Short-term exposure fac<br>skin resorptive (H),                                      |   | (Z) not securely excluded / (Y) certainly excluded   |
|                     | SUVA(CH) MAK value:<br>NIOSH:<br>NIOSH STEL:   | 20 ppm / 14 mg/m³<br>[TWA] 25 ppm / 18 mg/m³<br>35 ppm / 27 mg/m³   |  |
|                     | [TWA] Time-weighted<br>OSHA:   | l average to a reference period of 8 hours, [STEL] Short-term ex<br>Yes (TQ = 15000 lbs) - n/a; [TWA] 50 ppm / 3  |  |
|                     | DNEL:  | <i>itrilo tetraacetic acid, di Na-salt (EDTA-Na)</i><br>[inh] 1.5 mg/m³<br>Effect Level (for workers)   | CAS No.: 6381-92-6   |
|                     | PNEC(fresh water)  | 2.2 mg/L<br>Effected Concentration  |  |
| 8.2                 | Exposure controls<br>Good ventilation and extracti<br>level of cleanliness must be r |   | with floor drainage and washing facilities. The highest  |
| .2.1                | Respiratory protection<br>No additional recommer                                     |   |  |
| .2.2                |  | N 374 (permeation time >30 min - level 2), consist<br>nes chemical resistant latex gloves with code EN 3  | of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansel<br>874-3 level 1.  |
| .2.3                | <b>Eye protection</b><br>Yes, safety glasses acco                                    | ording EN 166 with integrated side shields or wrap-   | around protection.   |
| .2.4                | Skin protection<br>Not necessary.  |   |  |
| .2.5                | <b>Personal hygiene</b><br>Eating, drinking, smokin<br>with the skin, eyes and c     |   | nd at outdoor workplaces is prohibited. Avoid contact<br>e has been spilled, and soak it in water. Wash hands<br>I then apply protective skin cream. |



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27 °C

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| SECTION 9: Physical an          | d chemical properties       |                   |            |
| 9.1 Information on basic        | physical and chemical prope | erties            |            |
| 8 mL GH-1<br>Appearance: liquid | Colour: green               | Odor: alcoholic   |            |

30 mL GH-2 Appearance: liquid pH:

Colour: colourless 10,5

Odor: aminic

#### 9.2 Other information

pH: Flash point:

Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required. **Relevant Properties of Substance Group** 

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

- no further data available.
- 10.2 Chemical stability No known instability.

### 10.3 Possibility of hazardous reactions No further data available.

#### 10.4 Conditions to avoid

10.5 Incompatible materials

Avoid contact with strong acids or alkalines.

### 10.6 Hazardous decomposition products

In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

### SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.

### 8 mL GH-1

| Chemical:                 | triethanolamine   | CAS No.: 102-71-6                          |  |
|---------------------------|-------------------|--|--|
| TSCA Inventory:           | listed            | California Proposition 65 List: not listed |  |
| Australia NICNAS:         | not listed        | Canada CEPA 1999: DSL Yes                  |  |
| Japan CSCL/PRTR:          | PAC Yes, Ja       | pan PDSCL: not listed                      |  |
| Japan ISHL:               | listed ≥0,1%/     | /≥0,1%, Article 57-2 (SDS required)        |  |
| South Korea TCCA:         | not listed        |  |  |
| Korea Exist.Chem.In       | ventory: KE-25940 |  |  |
| LD50 <sub>orl rat</sub> : | > 5000 mg/kg      | g  |  |
| LD50 <sub>drm rbt</sub> : | > 2000 mg/kg      | g  |  |
|                           |                   |  |  |
| Chamiesh                  | - 44 - 4 - 1      |  |  |
| Chemical:                 | ethanol           | CAS No.: 64-17-5                           |  |
| TSCA Inventory:           | listed            | California Proposition 65 List: not listed |  |

| TSCA Inventory:              | listed Cal                   | lifornia Proposition 65 List: not listed                                 |
|------------------------------|------------------------------|--|
| ACGIH:                       | 1000 ppm                     |  |
| Exposure Routes:             | inhalation, ingestion, skin  | and/or eye contact   |
| Target Organs:               | Eyes, skin, respiratory sys  | stem, central nervous system, liver, blood, reproductive system          |
| Symptoms:                    | irritation eyes, skin, nose; | headache, drowsiness, lassitude (weakness, exhaustion), narcosis; cough; |
| liver damage; anemia; reprod | uctive, teratogenic          |  |
| Australia NICNAS:            | not listed                   | Canada CEPA 1999: DSL yes  |
| Japan CSCL/PRTR:             | not listed, Japan PDSCL:     | not listed   |
| Japan ISHL:                  | listed ≥0,1%/≥0,1%, Articl   | le 57-2 (SDS required)   |
| South Korea TCCA:            | not listed                   |  |

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|-------------|---|---|--|------------------|
| Thing duto. | 01.10.2019  |   | Date of issue: 20.05.2019  |                  |
|             | Korea Exist.Chem.l  | nventory: KE-13217  |  |                  |
|             | LD50 <sub>orl rat</sub> :   | 6200 mg/kg  | g  |                  |
|             | LC_Low <sub>ihl gpg</sub> :   | 21.9 g/m³   |  |                  |
|             | LC_Loworl hmn :   | 1400 mg/kg  |  |                  |
|             | LC50 <sub>ihl mouse</sub> :   | [4h] 39 g/m   |  |                  |
|             | LC50 <sub>ihl rat</sub> :   | [10h] 20 g/   |  |                  |
|             | LD50 <sub>drm rbt</sub> :   | 20 000 mg   |  |                  |
|             | LD50 <sub>oral mouse</sub> :  | 3450 mg/kg  | g  |                  |
|             | TRGS 905 (DE):  | K5, M5, R <sub>F</sub>  |  |                  |
|             | Chemical:<br>TSCA Inventory:  | <i>indicator dye(s)</i><br>all listed, <  | CAS No.: -   |                  |
| 30          | mL GH-2   |   |  |                  |
|             | Chemical:   | ammonia solution  | CAS No.: 1336-21-6   |                  |
|             | TSCA Inventory:   | listed  | California Proposition 65 List: not listed   |                  |
|             | Exposure Routes:  | inhalation,   | ingestion (solution), skin and/or eye contact (solution/liquid)  |                  |
|             | Target Organs:  |   | , respiratory system   |                  |
|             | Symptoms:<br>pink frothy sputum;  | skin burns, vesiculati  | yes, nose, throat; dyspnea (breathing difficulty), wheezing, chest pain;<br>ion; I   | pulmonary edema; |
|             | Australia NICNAS: (Item 53.)  | not listed  | Canada CEPA 1999: DSL yes, Toxic Substances  | (Schedule 1) Yes |
|             | Japan CSCL/PRTR   |   | Japan PDSCL: Deleterious Substance   |                  |
|             | Japan ISHL:   | listed ≥0,29  | %/≥0,1%, Article 57-2 (SDS required)   |                  |
|             | South Korea TCCA  |   |  |                  |
|             |   |   | , >10% Toxic 97-1-184  |                  |
|             | LD50 <sub>orl rat</sub> :   | 350 mg/kg   |  |                  |
|             | LC_Low <sub>ihl hmn</sub> :   | 5000 mg/m   |  |                  |
|             | LC50 <sub>ihl rat</sub> :   | [4h] 2000 p   |  |                  |
|             | LD50 <sub>drm</sub> rbt :   | [5min] 500  |  |                  |
|             | Chemical:<br>TSCA Inventory:  |   | aacetic acid, di Na-salt (EDTA-Na) CAS No.: 6381-92-6<br>S 139-33-3)   |                  |
|             |   | 2800 mg/kg  |  |                  |
|             | LD50 <sub>orl rat</sub> :   | 0   |  |                  |
| 2.1 To:     | 12: Ecologic<br>xicity  | al information  |  |                  |
| 2.1 To:     | 12: Ecologic<br>xicity  | al information  |  |                  |
| 2.1 To:     | 12: Ecologic<br>xicity<br>lowing information<br>8 mL GH-1<br>Chemical:  | al information  | bstances.<br>ne CAS No.: 102-7   | 1-6              |
| 2.1 To:     | 12: Ecologic<br>xicity<br>lowing information<br>8 mL GH-1<br>Chemical:  | al information  | bstances.<br>ne CAS No.: 102-7   | 1-6              |
| 2.1 To:     | 12: Ecologic<br>xicity<br>lowing information<br>8 mL GH-1<br>Chemical:<br>PNEC (fresh wate<br>PNEC = Predicted  | al information  | bstances.<br>ne CAS No.: 102-7<br>n 0.32 mg/L  | 1-6              |
| 2.1 To:     | 12: Ecologic<br>xicity<br>lowing information<br>8 mL GH-1<br>Chemical:<br>PNEC (fresh wate<br>PNEC = Predicted<br>LC50fish/96h :  | al information<br>is valid for pure sub<br>triethanolamin<br>Pr) :<br>No Effected Concentration   | bstances.<br>ne CAS No.: 102-7<br>0.32 mg/L<br>>1000 mg/L  | 1-6              |
| 2.1 To:     | 12: Ecologic<br>xicity<br>lowing information<br>8 mL GH-1<br>Chemical:<br>PNEC (fresh wate<br>PNEC = Predicted<br>LC50fish/96h :<br>EC50daphnia/48  | al information<br>is valid for pure sub<br>triethanolamin<br>ar):<br>No Effected Concentration<br>h:  | bstances.<br>ne CAS No.: 102-7<br>0.32 mg/L<br>>1000 mg/L<br>>1000 <sub>24h</sub> mg/L   | 1-6              |
| 2.1 To:     | 12: Ecologic<br>xicity<br>lowing information<br>8 mL GH-1<br>Chemical:<br>PNEC = Predicted<br>LC50fish/96h :<br>EC50daphnia/48<br>Water hazard of   | al information<br>is valid for pure sub<br>triethanolamin<br>sr) :<br>No Effected Concentration<br>h :<br>class (DE):   | bstances.<br>ne CAS No.: 102-7<br>0.32 mg/L<br>>1000 mg/L<br>>1000 <sub>24h</sub> mg/L<br>1 WGK No.: 0201  | 1-6              |
| 2.1 To:     | 12: Ecologic<br>xicity<br>lowing information<br>8 mL GH-1<br>Chemical:<br>PNEC = Predicted<br>LC50fish/96h :<br>EC50daphnia/48<br>Water hazard of   | al information<br>is valid for pure sub<br>triethanolamin<br>er) :<br>No Effected Concentration<br>h :<br>class (DE):<br>officient <sub>(octanol-water)</sub> :   | bstances.<br>ne CAS No.: 102-7<br>0.32 mg/L<br>>1000 mg/L<br>>1000 <sub>24h</sub> mg/L   | 1-6              |
| 2.1 To:     | 12: Ecologic<br>xicity<br>lowing information<br>8 mL GH-1<br>Chemical:<br>PNEC = Predicted<br>LC50fish/96h :<br>EC50daphnia/48<br>Water hazard o<br>Dispersion coe  | al information<br>is valid for pure sub<br>triethanolamin<br>er) :<br>No Effected Concentration<br>h :<br>class (DE):<br>officient <sub>(octanol-water)</sub> :   | bstances.<br>ne CAS No.: 102-7<br>0.32 mg/L<br>>1000 mg/L<br>>1000 <sub>24h</sub> mg/L<br>1 WGK No.: 0201<br>-2.3  |                  |
| 2.1 To:     | 12: Ecologic<br>xicity<br>lowing information<br>8 mL GH-1<br>Chemical:<br>PNEC (fresh water<br>PNEC = Predicted<br>LC50fish/96h :<br>EC50daphnia/48<br>Water hazard of<br>Dispersion coe<br>Storage class<br>Chemical:<br>PNEC(fresh water  | al information<br>is valid for pure sub<br>triethanolamin<br>ar) :<br>No Effected Concentration<br>h :<br>class (DE):<br>officient <sub>(octanol-water)</sub> :<br>(VCI):<br>ethanol  | bstances.<br>ne CAS No.: 102-7<br>0.32 mg/L<br>>1000 mg/L<br>>1000 <sub>24h</sub> mg/L<br>1 WGK No.: 0201<br>-2.3<br>12<br>CAS No.: 64-17<br>0.96 mg/L   |                  |
| 2.1 To:     | 12: Ecologic<br>xicity<br>lowing information<br>8 mL GH-1<br>Chemical:<br>PNEC (fresh watt<br>PNEC = Predicted<br>LC50fish/96h :<br>EC50daphnia/48<br>Water hazard o<br>Dispersion coe<br>Storage class<br>Chemical:<br>PNEC (fresh watt<br>PNEC = Predicted  | al information<br>is valid for pure sub<br>triethanolamin<br>ar):<br>No Effected Concentration<br>h:<br>class (DE):<br>ifficient(octanol-water):<br>(VCI):<br>ethanol<br>ar):<br>No Effected Concentration  | bstances.<br>ne CAS No.: 102-7<br>0.32 mg/L<br>>1000 mg/L<br>>1000 <sub>24h</sub> mg/L<br>1 WGK No.: 0201<br>-2.3<br>12<br>CAS No.: 64-17<br>0.96 mg/L   |                  |
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| 2.1 To:     | 12: Ecologic<br>xicity<br>lowing information<br>8 mL GH-1<br>Chemical:<br>PNEC = Predicted<br>LC50fish/96h :<br>EC50daphnia/48<br>Water hazard d<br>Dispersion coe<br>Storage class<br>Chemical:<br>PNEC (fresh wate<br>PNEC = Predicted<br>LC50daphnia ma<br>LC50opimephales<br>LC50pieuciscus id<br>LC50fish/96h :  | al information<br>is valid for pure sub<br>triethanolamin<br>ar):<br>No Effected Concentration<br>h:<br>class (DE):<br>fficient(octanol-water):<br>(VCI):<br>ethanol<br>ar):<br>No Effected Concentration<br>igna/48h :<br>promelas/96h :<br>us/96h :   | bstances.<br>ne CAS No.: 102-7<br>0.32 mg/L<br>>1000 mg/L<br>>100024h mg/L<br>1 WGK No.: 0201<br>-2.3<br>12<br>CAS No.: 64-17<br>0.96 mg/L<br>13400 - 15100 mg/L<br>[48h] 8140 mg/L<br>13 g/L  |                  |
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| 2.1 To:     | 12: Ecologic<br>xicity<br>lowing information<br>8 mL GH-1<br>Chemical:<br>PNEC (fresh wat<br>PNEC = Predicted<br>LC50fish/96h :<br>EC50daphnia/48<br>Water hazard of<br>Dispersion coe<br>Storage class<br>Chemical:<br>PNEC (fresh wat<br>PNEC = Predicted<br>LC50daphnia ma<br>LC50pimephales<br>LC50pimephales<br>LC50pimephales<br>LC50pimephales<br>LC50pimephales<br>LC50pimephales<br>LC50pimephales<br>LC50gaphnia/48<br>IC50scenedesmu<br>EC10pseudomor<br>Water hazard of | al information<br>is valid for pure sub<br>triethanolamin<br>ar):<br>No Effected Concentration<br>h:<br>class (DE):<br>ifficient(octanol-water):<br>(VCI):<br>ethanol<br>ar):<br>No Effected Concentration<br>igna/48h:<br>promelas/96h:<br>us/96h:<br>h:<br>us quadricauda/72h:<br>has putita/16h: | bstances.<br>ne CAS No.: 102-7<br>0.32 mg/L<br>>1000 mg/L<br>>1000 g/L<br>1 WGK No.: 0201<br>-2.3<br>12<br>CAS No.: 64-17<br>0.96 mg/L<br>13400 - 15100 mg/L<br>[48h] 8140 mg/L<br>13 g/L<br>9.3-14.2 g/L<br>[7d] 5000 mg/L                    |                  |



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### according to Regulations 1907/2006/EC (REACh) and 2015/830/EU

| REF: 931029    |  | VISOCOLOR ECO Total Hardness   | Page: 8/1          |
|----------------|--|--|--------------------|
| Printing date: | 01.10.2019   | Date of issue: 20.05.2019  |                    |
|                | Storage class (VCI):   | 3  |                    |
|                | Chemical: indicator d  |  | CAS No.: -         |
|                | Storage class (VCI):   | 12-13  | CA3 NU             |
|                | 30 mL GH-2   |  |                    |
|                | Chemical: ammonia s<br>PNEC(fresh water) :<br>PNEC = Predicted No Effected Concentri   | 0.0011 mg/L  | CAS No.: 1336-21-6 |
|                | LC50 <sub>fish/96h</sub> :<br>EC50 <sub>daphnia/48h</sub> :<br>Water hazard class (DE):<br>Storage class (VCI):  | 0,89 mg/L<br>101 mg/L<br>2 WGK No.: 0211<br>8 B                                    |                    |
|                | Chemical: ethylendin<br>PNEC(fresh water):<br>PNEC = Predicted No Effected Concentr  | itrilo tetraacetic acid, di Na-salt (EDTA-Na)<br>2.2 mg/L<br><sup>ation</sup>      | CAS No.: 6381-92-6 |
|                | LC50fish/96h :<br>EC50daphnia/48h :<br>IC50scenedesmus quadricauda/72h :<br>EC10pseudomonas putita/16h :<br>Water hazard class (DE):<br>Dispersion coefficient <sub>(octanol-water</sub><br>Storage class (VCI): | [4d] 41-1592 mg/L<br>140 mg/L<br>[72h] 2.77-1000 mg/L<br>[EC10, 30h] 500 mg/L<br>2 |                    |
|                | rsistence and degradability  |  |                    |
|                | paccumulative potential  |  |                    |
|                | <b>bility in soil</b><br>necessary   |  |                    |
|                | sults of PBT and vPvB asses<br>lata available  | ssment   |                    |
|                | ner adverse effects<br>additional data available   |  |                    |

### SECTION 13: Disposal considerations

Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (waste code number 16 05 06).

#### 13.1 Waste treatment methods

Normally it is possible to empty small amounts (diluted!) into drains.

### SECTION 14: Transport information

14.1. UN number: 3316 14.2. UN proper shipping name: Chemical Kit 14.3. Class: 14.4. Packing group: 9 11 Road transport Classification code: M11 Tunnel restriction code: Е Limited Quantity: acc. ADR 3.3.1/251: see LQ in Alternative declaration for transportation Air transport max. weight PAX: PAX: 960 10 KG CAO: 960 10 KG max. weight CAO: Maritime transport EmS: F-A, S-P Storage category: А

Or use Alternative declaration for transportation: UN 1993 class 3 III, Excepted Quantities (≤30 mL/∑≤1 L) = ADR/ IATA E1 or 1993 14.2 UN proper shipping name: Flammable liquid, n.o.s. (ethanol mixture) 14.1 UN number: 14.3 Class: 3 14.4 Packing group: III Road transport Classification code: F1



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### according to Regulations 1907/2006/EC (REACh) and 2015/830/EU

| REF: 931029 V                       |          | VIS                       | SOCOLOR ECO Total Hardness | Page: 9/10 |
|-------------------------------------|----------|---------------------------|----------------------------|------------|
| inting date: 01.10.2019             |          | Date of issue: 20.05.2019 |                            |            |
| Limited Quantity:                   | 5 L      | Tunnel restriction co     | de: E                      |            |
| Excepted Quantity:<br>Air transport | E 1      | Special instructions:     | 640E                       |            |
| PAX:                                | 355      | max. weight PAX:          | 60 L                       |            |
| CAO:<br>Maritime transport          | 366      | max. weight CAO:          | 220 L                      |            |
| ÉmS:                                | F-E, S-E | Storage category:         | A                          |            |

#### 14.5 Environmental hazards

none, contains only small quantities of hazardous substances

- 14.6 Special precautions for user not necessary
- 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code not applicable

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

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung -GefStoffV), revised on November 2010, according to Directive 98/24/EC TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products, updated October 2011 MN Leaflet/User manual, also see www.mn-net.com Look for your country-specific regulations.

### 15.2 Chemical safety assessment

not necessary for these small amounts ---

### **SECTION 16: Other information**

#### 16.1 List of H and P phrases

#### 16.1.1 List of relevant H phrases

| H226 | Flammable liquid and vapour.   |
|------|--------------------------------|
| H315 | Causes skin irritation.        |
| H319 | Causes serious eye irritation. |

16.1.2 List of relevant P phrases

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P280sh Wear protective gloves/eye protection.

16.2 Training advice

Regular safety training.

#### 16.3 Recommended restriction on use

Only for professional user.

An individual package of this product or test kit has a moderate hazardous potential.

### 16.4 Further information

MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

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#### 16.5 Sources of key data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 487/2013/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress Regulation 669/2018/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress TRGS 900, German engineering rules governing limits in air at work, updated 03/2018 SUVA .CH, Limits in air at work 2009, revised on 01.2009 KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)



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# **MACHEREY-NAGEI**



# **Safety Data Sheet**

## according to Regulations 1907/2006/EC (REACh) and 2015/830/EU

REF: 931029 VISOCOLOR ECO Total Hardness Page: 10/10 Printing date: 01.10.2019 Date of issue: 20.05.2019

**Revisions/Updates** 

Reason for Revision: 2016-03 Adaptation of regulation 1221/2015/EU 2017-08 Adaption of new ethanol denaturation 2016/1867/EU

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