

# Safety Data Sheet

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

REF: 915203

VISOCOLOR HE Carbonate alkalinity C20,refill

Page: 1/11

Printing date: 20.05.2019

Date of issue: 12.02.2019

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

### 1.1 Product identifier

REF 915203  
Product name VISOCOLOR HE Carbonate alkalinity C20,refill

REACH Registration number(s): see SECTION 3.1/3.2 or  
A registration number for the substance(s) does not exist because the annual tonnage does not require registration or the substance or its use is excluded from registration.

1 x 10 mL Indicator m  
1 x 10 mL Indicator p  
1 x 100 mL TL C 20

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

#### Relevant identified uses

Product for analytical use.

Exposure Scenario Classification according REACH, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0

The exposure scenario is integrated into sections 1-16.

#### Uses advised against

not described

### 1.3 Details of the supplier of the safety data sheet

#### Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG  
Neumann-Neander-Str. 6-8, 52355 Dueren, GERMANY  
Tel.: +49 2421 969 0

E-mail: sds@mn-net.com (msds@mn-net.com)

### 1.4 Emergency telephone number

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service.  
DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730

You find our current versions of SDS (22 languages) in Internet:

<http://www.mn-net.com/SDS>

## SECTION 2: Hazard identification

### 2.0 Classification of the complete product



GHS02

Signal word DANGER

**Hazard identification** **Hazard classes/categories**

H225 Flam. Liq. 2

### 2.1 Classification of the substance or mixture

10 mL Indicator m



GHS02

Signal word DANGER

**Hazard identification** **Hazard classes/categories**

H225 Flam. Liq. 2

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# Safety Data Sheet

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

REF: 915203

VISOCOLOR HE Carbonate alkalinity C20,refill

Page: 2/11

Printing date: 20.05.2019

Date of issue: 12.02.2019

## 10 mL Indicator p



GHS02

Signal word

DANGER

### Hazard identification

H225

### Hazard classes/categories

Flam. Liq. 2

## 100 mL TL C 20

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 identifier(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).

## 10 mL Indicator m



GHS02

Signal word: DANGER

## 10 mL Indicator p



GHS02

Signal word: DANGER

## 100 mL TL C 20

Do not need labelling as hazardous

Signal word: -

## 2.3 Other hazards

### Possible hazards from physicochemical properties

Flammable properties. ---

### Information pertaining to particular risks to human and possible symptoms

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### Information pertaining to particular risks to the environment

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### Other hazards

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# Safety Data Sheet

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

REF: 915203

VISOCOLOR HE Carbonate alkalinity C20,refill

Page: 3/11

Printing date: 20.05.2019

Date of issue: 12.02.2019

## SECTION 3: Composition/information on ingredients

### 3.1 Substances or 3.2 Mixtures

#### 10 mL Indicator m

|                 |                                                                    |          |          |
|-----------------|--------------------------------------------------------------------|----------|----------|
| Chemical:       | <i>methyl red (pH indicator)</i>                                   | CAS No.: | 493-52-7 |
| Classification: | No criteria for classification or naming of chemical not required. |          |          |
| Formula:        | $C_{15}H_{15}N_3O_2$                                               |          |          |
| Pseudonym:      | 4-(dimethylamino)-azobenzene-1,2'-carboxylic acid                  |          |          |
| TSCA Inventory: | listed                                                             |          |          |
| EC No.:         | 207-776-1                                                          |          |          |
| RTECS:          | DG8960000                                                          | MFCD:    | 00002425 |
| KE No.:         | KE-06693                                                           |          |          |
| Concentration:  | 0,1 - <1 %                                                         |          |          |
| acc. CLP (GHS): | The criteria for classification are not fulfilled.                 |          |          |

|                 |                                                                  |             |              |
|-----------------|------------------------------------------------------------------|-------------|--------------|
| Chemical:       | <i>ethanol</i><br>(denatured with 1%IPA/1%MEK, acc.2016/1867/EU) | CAS No.:    | 64-17-5      |
| Classification: | H225, Flam. Liq. 2                                               |             |              |
| Formula:        | $C_2H_6O$ ; $C_2H_5OH$                                           |             |              |
| Pseudonym:      | ethyl alcohol, methylated spirit                                 |             |              |
| TSCA Inventory: | listed                                                           |             |              |
| REACH Reg. No.: | 01-2119457610-43-xxxx                                            |             |              |
| EC No.:         | 200-578-6                                                        | Indice No.: | 603-002-00-5 |
| RTECS:          | KQ6300000                                                        | MFCD:       | 00003568     |
| KE No.:         | KE-13217                                                         |             |              |
| Concentration:  | 55 - <75 %                                                       |             |              |
| acc. CLP (GHS): | H225, Flam. Liq. 2                                               |             |              |

|                 |                                                                    |          |   |
|-----------------|--------------------------------------------------------------------|----------|---|
| Chemical:       | <i>indicator dye(s)</i>                                            | CAS No.: | - |
| Classification: | No criteria for classification or naming of chemical not required. |          |   |
| TSCA Inventory: | all listed, <1%                                                    |          |   |
| Concentration:  | 0,1 - <1 %                                                         |          |   |
| acc. CLP (GHS): | The criteria for classification are not fulfilled.                 |          |   |

#### 10 mL Indicator p

|                 |                                                                  |             |              |
|-----------------|------------------------------------------------------------------|-------------|--------------|
| Chemical:       | <i>ethanol</i><br>(denatured with 1%IPA/1%MEK, acc.2016/1867/EU) | CAS No.:    | 64-17-5      |
| Classification: | H225, Flam. Liq. 2                                               |             |              |
| Formula:        | $C_2H_6O$ ; $C_2H_5OH$                                           |             |              |
| Pseudonym:      | ethyl alcohol, methylated spirit                                 |             |              |
| TSCA Inventory: | listed                                                           |             |              |
| REACH Reg. No.: | 01-2119457610-43-xxxx                                            |             |              |
| EC No.:         | 200-578-6                                                        | Indice No.: | 603-002-00-5 |
| RTECS:          | KQ6300000                                                        | MFCD:       | 00003568     |
| KE No.:         | KE-13217                                                         |             |              |
| Concentration:  | 55 - <75 %                                                       |             |              |
| acc. CLP (GHS): | H225, Flam. Liq. 2                                               |             |              |

|                     |                                                    |             |              |
|---------------------|----------------------------------------------------|-------------|--------------|
| Chemical:           | <i>phenolphthalein (pH indicator)</i>              | CAS No.:    | 77-09-8      |
| Classification:     | H341, Muta. 2, H350, Carc. 1A, H361f, Repr. 2      |             |              |
| Formula:            | $C_{20}H_{14}O_4$                                  |             |              |
| Pseudonym:          | 3,3-bis(4-hydroxyphenyl)-1(3H)-isobenzofuranone    |             |              |
| TSCA Inventory:     | listed                                             |             |              |
| REACH Reg. No.:     | 01-2119498295-24-0000                              |             |              |
| <b>SVHC listed:</b> | <b>YES (&gt; 1%)</b>                               |             |              |
| EC No.:             | 201-004-7                                          | Indice No.: | 604-076-00-1 |
| RTECS:              | SM8380000                                          | MFCD:       | 00005913     |
| KE No.:             | KE-03234                                           |             |              |
| Concentration:      | 0,1 - <1 %                                         |             |              |
| acc. CLP (GHS):     | The criteria for classification are not fulfilled. |             |              |

#### 100 mL TL C 20

# Safety Data Sheet

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

REF: 915203

VISOCOLOR HE Carbonate alkalinity C20,refill

Page: 4/11

Printing date: 20.05.2019

Date of issue: 12.02.2019

Chemical: *hydrochloric acid* CAS No.: 7647-01-0  
Classification: H290, Met. Corr. 1, H314, Skin Corr. 1B, H331, Acute Tox. 3 inh.  
Formula:  $\text{HCl} \cdot \text{H}_2\text{O}$   
Pseudonym: aqueous hydrogen chloride  
TSCA Inventory: listed  
REACH Reg. No.: 01-2119484862-27-xxxx  
EC No.: 231-595-7 Indice No.: 017-002-01-X  
RTECS: MW4025000  
KE No.: KE-20189, >10% Toxic 97-1-203, Acc. Precaution Chem.  
Concentration: 0,1 - <1 %  
acc. CLP (GHS): The criteria for classification are not fulfilled.

## 3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.

List of H and P phrases: see section 16.1

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice.

#### 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. ---

### 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

DANGER: Highly flammable (GHS regulation). Forms 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.

### 5.4 Additional information

---

## 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

# Safety Data Sheet

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

REF: 915203

VISOCOLOR HE Carbonate alkalinity C20,refill

Page: 5/11

Printing date: 20.05.2019

Date of issue: 12.02.2019

## 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

#### 10 mL Indicator m

Chemical: methyl red (pH indicator)

CAS No.: 493-52-7

Chemical: ethanol

CAS No.: 64-17-5

DNEL: [derm] 343 mg/kg; [inh] 950 mg/m<sup>3</sup>

DNEL = Derived No-Effect Level (for workers)

PNEC<sub>(fresh water)</sub>: 0.96 mg/L

PNEC = Predicted No Effect Concentration

TRGS 900 (DE): 200 mL/m<sup>3</sup> / 380 mg/m<sup>3</sup>

E/e respirable

Short-term exposure factor: 4 (II), Y

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 500 ppm / 960 mg/m<sup>3</sup>

NIOSH: [TWA] 1000 ppm / 1900 mg/m<sup>3</sup>

[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: [TWA] 1000 ppm / 1900 mg/m<sup>3</sup>

Chemical: indicator dye(s)

CAS No.: -

#### 10 mL Indicator p

Chemical: ethanol

CAS No.: 64-17-5

DNEL: [derm] 343 mg/kg; [inh] 950 mg/m<sup>3</sup>

DNEL = Derived No-Effect Level (for workers)

PNEC<sub>(fresh water)</sub>: 0.96 mg/L

PNEC = Predicted No Effect Concentration

TRGS 900 (DE): 200 mL/m<sup>3</sup> / 380 mg/m<sup>3</sup>

E/e respirable

Short-term exposure factor: 4 (II), Y

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 500 ppm / 960 mg/m<sup>3</sup>

NIOSH: [TWA] 1000 ppm / 1900 mg/m<sup>3</sup>

[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: [TWA] 1000 ppm / 1900 mg/m<sup>3</sup>

Chemical: phenolphthalein (pH indicator)

CAS No.: 77-09-8

NIOSH: not listed, NTP Report on Carcinogens (RoC) List Yes (Reasonably anticipated to be a human carcinogen)

[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: not listed

# Safety Data Sheet

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

REF: 915203

VISOCOLOR HE Carbonate alkalinity C20,refill

Page: 6/11

Printing date: 20.05.2019

Date of issue: 12.02.2019

## 100 mL TL C 20

Chemical: *hydrochloric acid*

CAS No.: 7647-01-0

DNEL: [inh] 8 mg/m<sup>3</sup>  
DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 36 µg/L  
PNEC = Predicted No Effect Concentration

EU value: [TWA] 5 ppm / 8 mg/m<sup>3</sup>; [STEL] 10 ppm / 15 mg/m<sup>3</sup>

TRGS 900 (DE): 2 mL/m<sup>3</sup> / 3 mg/m<sup>3</sup>  
E/e respirable

Short-term exposure factor: 2 (I), Y  
skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 2 ppm / 3\* mg/m<sup>3</sup>

NIOSH: [C] 5 ppm / 7 mg/m<sup>3</sup>  
[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: List of highly hazardous chemicals, toxics and reactives Yes (TQ = 5000 lbs) n/a; TWA 5 ppm / 7 mg/m<sup>3</sup>

## 8.2 Exposure controls

Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleanliness must be maintained at the workplace.

### 8.2.1 Respiratory protection

No additional recommendations.

### 8.2.2 Hand protection

Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansell or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.

### 8.2.3 Eye protection

Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.

### 8.2.4 Skin protection

Not necessary.

### 8.2.5 Personal hygiene

Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### 10 mL Indicator m

|                      |                        |                 |
|----------------------|------------------------|-----------------|
| Appearance: liquid   | Colour: red            | Odor: alcoholic |
| pH:                  | 6-8                    |                 |
| Flash point:         | 22,5 °C                |                 |
| Specific gravity:    | 0,89 g/cm <sup>3</sup> |                 |
| Solubility in water: | 0-100 %                |                 |

#### 10 mL Indicator p

|                      |                        |                 |
|----------------------|------------------------|-----------------|
| Appearance: liquid   | Colour: colourless     | Odor: alcoholic |
| pH:                  | 7-8                    |                 |
| Flash point:         | 22,5 °C                |                 |
| Specific gravity:    | 0,89 g/cm <sup>3</sup> |                 |
| Solubility in water: | 0-100 %                |                 |

#### 100 mL TL C 20

|                      |                        |                |
|----------------------|------------------------|----------------|
| Appearance: liquid   | Colour: colourless     | Odor: odorless |
| pH:                  | 1-2                    |                |
| Specific gravity:    | 1,00 g/cm <sup>3</sup> |                |
| Solubility in water: | 0-100 %                |                |

### 9.2 Other information

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

Substances are very volatile and form flammable vapour-air mixtures. ---

# Safety Data Sheet

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

REF: 915203

VISOCOLOR HE Carbonate alkalinity C20,refill

Page: 7/11

Printing date: 20.05.2019

Date of issue: 12.02.2019

## 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

### 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.

#### 10 mL Indicator m

Chemical: *methyl red (pH indicator)*  
TSCA Inventory: listed  
Korea Exist.Chem.Inventory: KE-06693

CAS No.: 493-52-7

Chemical: *ethanol* CAS No.: 64-17-5  
TSCA Inventory: listed California Proposition 65 List: not listed  
ACGIH: 1000 ppm  
Exposure Routes: inhalation, ingestion, skin and/or eye contact  
Target Organs: Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system  
Symptoms: irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; cough;  
liver damage; anemia; reproductive, teratogenic  
Australia NICNAS: not listed Canada CEPA 1999: DSL yes  
Japan CSCL/PRTR: not listed, Japan PDSCL: not listed  
Japan ISHL: listed  $\geq 0,1\%/\geq 0,1\%$ , Article 57-2 (SDS required)  
South Korea TCCA: not listed  
Korea Exist.Chem.Inventory: KE-13217  
LD50<sub>rat</sub>: 6200 mg/kg  
LC<sub>50</sub><sub>rat</sub>: 21.9 g/m<sup>3</sup>  
LC<sub>50</sub><sub>rat</sub>: 1400 mg/kg  
LC50<sub>rat</sub>: [4h] 39 g/m<sup>3</sup>  
LC50<sub>rat</sub>: [10h] 20 g/m<sup>3</sup>  
LD50<sub>rat</sub>: 20 000 mg/kg  
LD50<sub>rat</sub>: 3450 mg/kg

TRGS 905 (DE): K5, M5, R<sub>f</sub> C

Chemical: *indicator dye(s)*  
TSCA Inventory: all listed, <1%

CAS No.: -

#### 10 mL Indicator p

Chemical: *ethanol* CAS No.: 64-17-5  
TSCA Inventory: listed California Proposition 65 List: not listed  
ACGIH: 1000 ppm  
Exposure Routes: inhalation, ingestion, skin and/or eye contact  
Target Organs: Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system  
Symptoms: irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; cough;  
liver damage; anemia; reproductive, teratogenic  
Australia NICNAS: not listed Canada CEPA 1999: DSL yes  
Japan CSCL/PRTR: not listed, Japan PDSCL: not listed

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# Safety Data Sheet

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

REF: 915203

VISOCOLOR HE Carbonate alkalinity C20,refill

Page: 8/11

Printing date: 20.05.2019

Date of issue: 12.02.2019

Japan ISHL: listed  $\geq 0,1\%$ / $\geq 0,1\%$ , Article 57-2 (SDS required)  
 South Korea TCCA: not listed  
 Korea Exist.Chem.Inventory: KE-13217  
 LD50<sub>orl rat</sub>: 6200 mg/kg  
 LC<sub>Lowihl gpg</sub>: 21.9 g/m<sup>3</sup>  
 LC<sub>Loworl hmn</sub>: 1400 mg/kg  
 LC50<sub>ihl mouse</sub>: [4h] 39 g/m<sup>3</sup>  
 LC50<sub>ihl rat</sub>: [10h] 20 g/m<sup>3</sup>  
 LD50<sub>drm rbt</sub>: 20 000 mg/kg  
 LD50<sub>oral mouse</sub>: 3450 mg/kg

TRGS 905 (DE): K5, M5, R<sub>F</sub> C

Chemical: *phenolphthalein (pH indicator)* CAS No.: 77-09-8  
 TSCA Inventory: listed California Proposition 65 List: listed, cancer  
 Australia NICNAS: not listed Canada CEPA 1999: DSL yes  
 Japan CSCL/PRTR: PRTR - Class II Designated Chemical Substance, Japan PDSCL: not listed  
 Japan ISHL: not listed  
 South Korea TCCA: not listed  
 Korea Exist.Chem.Inventory: KE-03234  
 LD50<sub>orl rat</sub>: >1000 mg/kg

EU carcinogen: Carcinogenicity cat. 2, Germ Cell Mutagenicity cat. 3, >5% Reproductive Toxicity cat. 3  
 TRGS 905 (DE): Karzinogenität Kat. 2

## 100 mL TL C 20

Chemical: *hydrochloric acid* CAS No.: 7647-01-0  
 TSCA Inventory: listed California Proposition 65 List: not listed  
 Exposure Routes: inhalation, ingestion (solution), skin and/or eye contact  
 Target Organs: Eyes, skin, respiratory system  
 Symptoms: irritation nose, throat, larynx; cough, choking; dermatitis; solution: eye, skin burns; liquid: frostbite; in  
 animals: laryngeal spasm; pulmonary ede  
 Australia NICNAS: not listed Canada CEPA 1999: DSL Yes  
 Japan CSCL/PRTR: not listed, Japan PDSCL: Deleterious Substance  
 Japan ISHL: listed  $\geq 0,2\%$ / $\geq 0,1\%$ , Article 57-2 (SDS required)  
 South Korea TCCA: Accident Precaution Chemical Yes  
 Korea Exist.Chem.Inventory: KE-20189, >10% Toxic 97-1-203, Acc. Precaution Chem.  
 LD50<sub>orl rat</sub>: 900 mg/kg  
 LC50<sub>drm rbt</sub>: >5010 mg/kg

## SECTION 12: Ecological information

### 12.1 Toxicity

Following information is valid for pure substances.

#### 10 mL Indicator m

Chemical: *methyl red (pH indicator)* CAS No.: 493-52-7  
 Water hazard class (DE): 2  
 Storage class (VCI): 12-13

Chemical: *ethanol* CAS No.: 64-17-5  
 PNEC (fresh water): 0.96 mg/L  
 PNEC = Predicted No Effected Concentration  
 LC50<sub>daphnia magna/48h</sub>: >100 mg/L  
 LC50<sub>pimephales promelas/96h</sub>: 13400 - 15100 mg/L  
 LC50<sub>leuciscus idus/96h</sub>: [48h] 8140 mg/L  
 LC50<sub>fish/96h</sub>: 13 g/L  
 EC50<sub>daphnia/48h</sub>: 9.3-14.2 g/L  
 IC50<sub>scenedesmus quadricauda/72h</sub>: [7d] 5000 mg/L  
 EC10<sub>pseudomonas putida/16h</sub>: [EC5] 6500 mg/L  
 Water hazard class (DE): 1 WGK No.: 0096  
 Dispersion coefficient (octanol-water): -0.31  
 Storage class (VCI): 3

# Safety Data Sheet

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

REF: 915203

VISOCOLOR HE Carbonate alkalinity C20,refill

Page: 9/11

Printing date: 20.05.2019

Date of issue: 12.02.2019

Chemical: *indicator dye(s)*  
Storage class (VCI): 12-13

CAS No.: -

## 10 mL Indicator p

Chemical: *ethanol*  
PNEC (fresh water) : 0.96 mg/L  
PNEC = Predicted No Effect Concentration  
LC50<sub>daphnia magna/48h</sub> : >100 mg/L  
LC50<sub>pimephales promelas/96h</sub> : 13400 - 15100 mg/L  
LC50<sub>leuciscus idus/96h</sub> : [48h] 8140 mg/L  
LC50<sub>fish/96h</sub> : 13 g/L  
EC50<sub>daphnia/48h</sub> : 9.3-14.2 g/L  
IC50<sub>scenedesmus quadricauda/72h</sub> : [7d] 5000 mg/L  
EC10<sub>pseudomonas putida/16h</sub> : [EC5] 6500 mg/L  
Water hazard class (DE): 1 WGK No.: 0096  
Dispersion coefficient<sub>(octanol-water)</sub> : -0.31  
Storage class (VCI): 3

CAS No.: 64-17-5

Chemical: *phenolphthalein (pH indicator)*  
Water hazard class (DE): 1  
Dispersion coefficient<sub>(octanol-water)</sub> : 0.9  
Storage class (VCI): 12-13

CAS No.: 77-09-8

## 100 mL TL C 20

Chemical: *hydrochloric acid*  
PNEC (fresh water) : 36 µg/L  
PNEC = Predicted No Effect Concentration  
LC50<sub>fish/96h</sub> : 24.6 mg/L  
EC50<sub>daphnia/48h</sub> : 0.492 mg/L  
EC50<sub>pseudokirchneriella subcapitata/72h</sub> : 0.78 mg/L  
Water hazard class (DE): 1 WGK No.: 0238  
Storage class (VCI): 8 B

CAS No.: 7647-01-0

## 12.2 Persistence and degradability

not necessary

## 12.3 Bioaccumulative potential

not necessary

## 12.4 Mobility in soil

not necessary

## 12.5 Results of PBT and vPvB assessment

no data available

## 12.6 Other adverse effects

no 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: 9 14.4. Packing group: II  
Road transport  
Classification code: M11 Tunnel restriction code: E  
Limited Quantity: acc. ADR 3.3.1/251: see LQ in Alternative declaration for transportation  
Air transport  
PAX: 960 max. weight PAX: 10 KG  
CAO: 960 max. weight CAO: 10 KG  
Maritime transport  
EmS: F-A, S-P Storage category: A

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# Safety Data Sheet

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

REF: 915203

VISOCOLOR HE Carbonate alkalinity C20,refill

Page: 10/11

Printing date: 20.05.2019

Date of issue: 12.02.2019

Or use **Alternative declaration for transportation:**

UN 1993 class 3 II, **Excepted Quantities** ( $\leq 30 \text{ mL} / \sum \leq 500 \text{ mL}$ ) = ADR/ IATA E2

or

**14.1 UN number:** 1992 **14.2 UN proper shipping name:** Flammable liquid, toxic, n.o.s. (ethanol solution)

**14.3 Class:** 3 **Additionally class:** 6.1 **14.4 Packing group:** II

*Road transport*

Classification code: FT1

Limited Quantity: 1 L

Excepted Quantity: E 2

*Air transport*

PAX: 352

CAO: 364

*Maritime transport*

EmS: F-E, S-D

Tunnel restriction code: E

Special instructions: 274

max. weight PAX: 1 L

max. weight CAO: 60 L

Storage category: B

## 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](http://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

H225 Highly flammable liquid and vapour.

#### 16.1.2 List of relevant P phrases

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

### 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

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REF: 915203

VISOCOLOR HE Carbonate alkalinity C20,refill

Page: 11/11

Printing date: 20.05.2019

Date of issue: 12.02.2019

## 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)

### Revisions/Updates

Reason for Revision: 2016-03 Adaptation of regulation 1221/2015/EU

2017-08 Adaption of new ethanol denaturation 2016/1867/EU