

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

VISOCOLOR alpha Residual hardness Page: 1/8

Date of issue: 26.09.2018 Printing date: 02.06.2020

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

#### 1.1 **Product identifier**

REF 935080

Product name VISOCOLOR alpha Residual hardness

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 12 mL H<sub>R</sub>

### 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)

US:

### 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**

### 2.1 Classification of the substance or mixture

Signal word

12 mL H<sub>R</sub>





GHS07 WARNING

Hazard identification Hazard classes/categories

H226 Flam. Liq. 3 H315 Skin Irrit. 2 H319 Eye Irrit. 2

### 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).

12 mL H<sub>R</sub>

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Signal word: WARNING

#### 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

12 mL H<sub>R</sub>

Chemical: triethanolamine 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 regulation 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

Chemical: CAS No.: 64-17-5

(denatured with 1%IPA/1%MEK, acc.2016/1867/EU)

Classification: H225, Flam. Liq. 2 Formula: C<sub>2</sub> H<sub>6</sub> O; C<sub>2</sub> H<sub>5</sub> OH

ethyl alcohol, methylated spirit Pseudonym:

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

KF No . KE-13217 Concentration: 20 - <35 % acc. CLP (GHS): H226, Flam. Liq. 3

CAS No .: -Chemical: indicator dye(s)

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.

3.3

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

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### **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 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

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.

#### 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

### 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): Water hazard class (DE):

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## **ACHEREY-NAGEI**



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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**

### **Control parameters** 8.1

12 mL H<sub>R</sub>

CAS No.: 102-71-6 Chemical: triethanolamine

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>

NIOSH: not listed

[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

Chemical: ethanol CAS No.: 64-17-5

[derm] 343 mg/kg; [inh] 950 mg/m<sup>3</sup> DNEL: DNEL = Derived No-Effect Level (for workers)

PNEC<sub>(fresh water)</sub>: 0.96 mg/L PNEC = Predicted No Effected Concentration

200 mL/m³ / 380 mg/m³ E/e respirable TRGS 900 (DE):

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

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>

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

[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>

CAS No.: -Chemical: indicator dve(s)

### 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.

### Hand protection 8.2.2

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

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

#### 8.2.4 Skin protection

Not necessary.

### 8.2.5

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.

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## **MACHEREY-NAGEL**



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## **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

12 mL HR

Appearance: liquid Colour: green Odor: aminic

pH: 10-11 Flash point: 29 °C

#### 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** 

### 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.

### 12 mL HR

Chemical: CAS No.: 102-71-6 triethanolamine

TSCA Inventory: listed California Proposition 65 List: not listed Australia NICNAS: Canada CEPA 1999: DSL Yes

Japan CSCL/PRTR: PAC Yes, Japan PDSCL: not listed

Japan ISHL: listed ≥0,1%/≥0,1%, Article 57-2 (SDS required)

South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-25940 LD50<sub>orl rat</sub>: > 5000 mg/kg LD50<sub>drm rbt</sub>: > 2000 mg/kg

CAS No.: 64-17-5 Chemical: ethanol

California Proposition 65 List: not listed TSCA Inventory: 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 ≥0,1%/≥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\_Lowihl gpg: 21.9 g/m<sup>3</sup> LC Loworl hmn 1400 mg/kg LC50<sub>ihl mouse</sub>: [4h] 39 g/m<sup>3</sup>

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# MACHEREY-NAGEL



CAS No.: 102-71-6

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> 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

CAS No .: -Chemical: indicator dye(s)

TSCA Inventory: all listed, <1%

### **SECTION 12: Ecological information**

### 12.1 **Toxicity**

Following information is valid for pure substances.

12 mL H<sub>R</sub>

Chemical: triethanolamine

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 0.32 mg/L

LC50<sub>fish/96h</sub>: >1000 mg/L EC50<sub>daphnia/48h</sub>: >1000<sub>24h</sub> mg/L Water hazard class (DE): WGK No.: 0201

Dispersion coefficient(octanol-water): Storage class (VCI): 12

ethanol CAS No : 64-17-5 Chemical:

PNEC<sub>(fresh water)</sub>:
PNEC = Predicted No Effected Concentration 0.96 mg/L

 $LC50_{daphnia\ magna/48h}$  : >100 mg/L 13400 - 15100 mg/L LC50pimephales promelas/96h:

LC50leuciscus idus/96h: [48h] 8140 mg/L  $LC50_{fish/96h}$ : 13 g/L 9.3-14.2 g/L EC50<sub>daphnia/48h</sub>: [7d] 5000 mg/L IC50<sub>scenedesmus</sub> quadricauda/72h [EC5] 6500 mg/L EC10<sub>pseudomonas putita/16h</sub>: WGK No.: 0096

Water hazard class (DE): Dispersion coefficient(octanol-water): -0.31Storage class (VCI):

indicator dye(s) CAS No .: -

Storage class (VCI):

### 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.

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### **SECTION 14: Transport information**

14.1. UN number: 3316 14.3. Class: 9 14.2. UN proper shipping name: Chemical Kit

14.4. Packing group:

Road transport Classification code: M11 Tunnel restriction code:

Limited Quantity: acc. ADR 3.3.1/251: see LQ in Alternative declaration for transportation

Air transport

PAX: 960 max. weight PAX: 10 KG max. weight CAO: CAO: 960 10 KG

Maritime transport

EmS: F-A, S-P Storage category:

Or use Alternative declaration for transportation:

UN 1993 class 3 III, Excepted Quantities (≤30 mL/∑≤1 L) = ADR/ IATA E1

or

14.2 UN proper shipping name: Flammable liquid, n.o.s. (ethanol mixture) 14.1 UN number:

14.3 Class: 14.4 Packing group:

Road transport

Classification code: Limited Quantity: Tunnel restriction code: 5 I Ε **Excepted Quantity:** E 1 Special instructions: 640E

Air transport

PAX: 355 max. weight PAX: 60 L CAO: 366 max. weight CAO: 220 I

Maritime transport

F-E. S-E Storage category: Α FmS:

#### 14.5 **Environmental hazards**

none, contains only small quantities of hazardous substances

#### Special precautions for user 14.6

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.

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#### 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

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, 4th adaptation of CLP regulation to technical and scientific progress Regulation 669/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress Regulation 1480/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress TRGS 900, German engineering rules governing limits in air at work, updated 03/2019

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

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