

Safety Data Sheet

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

VISOCOLOR HE Total Hardness H 2 Page: 1/10 Date of issue: 19.04.2022 Printing date: 18.07.2022 Version: 2.2.2.2

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

1.1 **Product identifier**

REF 915002

Product name VISOCOLOR HE Total Hardness H 2

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 15 mL Ind. H 2 UFI: FPKU-P3R5-1201-S9CR

1 x 100 mL TL H 2

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 Valencienner Str. 11, 52355 Düren, Germany

Phone: +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 in Internet:

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

SECTION 2: Hazard identification

2.0 Classification of the complete product according to Regulation (EC) 1272/2008





GHS02

Eye Irrit. 2

Signal word WARNING

Hazard identification Hazard classes/categories H226 Flam. Liq. 3 H315 Skin Irrit. 2

Classification for the complete product according to Regulation (EC) 1272/2008 2.1

15 mL Ind. H 2

H319







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> Signal word WARNING

Hazard identification Hazard classes/categories H226 Flam. Liq. 3 Skin Irrit. 2 H315 H319 Eye Irrit. 2

100 mL TL H 2

Do not need labelling as hazardous

Signal word No hazard class

List of H phrases: see section 16.1

2.2 Label elements according regulation (EC) 1272/2008

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).

15 mL Ind. H 2





Signal word: WARNING

100 mL TL H 2

Do not need labelling as hazardous

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

15 mL Ind. H 2

CAS No.: 102-71-6 Chemical: triethanolamine Classification: H315, Skin Irrit. 2, H319, Eye Irrit. 2

 $C_6\,H_{15}\,NO_3$ Formula:

2,2',2"-nitrilotriethanol; tris(2-hydroxyethyl)amine

Pseudonym: 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.: RTECS: KL9275000 KE No.: KE-25940 Concentration: 20 - <45 %

acc. CLP (GHS): H315, Skin Irrit. 2, H319, Eye Irrit. 2



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CAS No.: 64-17-5

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Chemical: ethanol

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

Classification: H225, Flam. Liq. 2 Formula: C₂ H₆ O; C₂ H₅ OH

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: 20 - <35 % acc. CLP (GHS): H226, Flam. Liq. 3

Chemical: tris(hydroxymethyl)aminomethane CAS No.: 77-86-1

Classification: No criteria for classification or naming of chemical not required.

Formula: C₄ H₁₁ NO₃

Pseudonym: Trometamol, 2-amino-2-(hydroxymethyl)-1,3-propanediol

TSCA Inventory: listed

REACH Reg. No.: 01-2119957659-16-0014

EC No.: 201-064-4

RTECS: TY2900000 MFCD: 00004679

KE No.: KE-01403 Concentration: 3 - <10 %

acc. CLP (GHS): The criteria for classification are not fulfilled.

Chemical: indicator dye(s) 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.

100 mL TL H 2

Chemical: ethylendinitrilo tetraacetic acid, di Na-salt (EDTA-Na) CAS No.: 6381-92-6

Classification: H332, Acute Tox. 4 inh., H373, STOT RE 2

Formula: C₁₀ H₁₄ N₂ Na₂ O₈ •2 H₂ O TSCA Inventory: listed (CAS 139-33-3)

TSCA Inventory: listed (CAS 139-33-3 EC No.: 205-358-3

RTECS: AH4410000; AH4375000 MFCD: 00150037

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. ---



Software: M V 4.23.15

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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.

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. No eating, drinking or smoking in work areas. Wash hands after use. Remove contaminated clothing before entering the area where you are eating.

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

15 mL Ind. H 2

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

DNEL: [derm] 6.3; [inh] 5 mg/m³ 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^a

Short-term exposure factor: I, (2)

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



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SUVA(CH) MAK value: [MAK] 5 e/[STEL] 10 e mg/m³

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

DNEL: [derm] 343 mg/kg; [inh] 950 mg/m³ DNEL = Derived No-Effect Level (for workers)

DNEL = Derived No-Effect Level (for workers)

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

TRGS 900 (DE): 200 mL/m³ / 380 mg/m³

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/m³

NIOSH: [TWA] 1000 ppm / 1900 mg/m³

[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/m³

Chemical: tris(hydroxymethyl)aminomethane CAS No.: 77-86-1

DNEL: [derm] 166.7 mg/kg bw/day; [inh] 117.5 mg/m³

DNEL = Derived No-Effect Level (for workers)

PNEC_(fresh water): no data mg/L PNEC = Predicted No Effected Concentration

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

100 mL TL H 2

Chemical: ethylendinitrilo tetraacetic acid, di Na-salt (EDTA-Na) CAS No.: 6381-92-6

DNEL: [inh] 1.5 mg/m³
DNEL = Derived No-Effect Level (for workers)

PNEC(fresh water): 2.2 mg/L
PNEC = Predicted No Effected Concentration

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.

8.3 Limitation and monitoring of environmental exposure

Do not release product into environment.



Software: M V 4.23.15

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

15 mL Ind. H 2

Appearance: liquid Colour: green Odor: aminic

pH: >10 Flash point: 29 °C

100 mL TL H 2

Colour: colourless Odor: aminic Appearance: liquid

9-10 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**

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 the hazard classes according regulation (EC) 1272/2008

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

15 mL Ind. H 2

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

TSCA Inventory: California Proposition 65 List: not listed listed 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_{orl rat}: > 5000 mg/kg LD50_{drm rbt}: > 2000 mg/kg

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

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

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



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> South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-13217 LD50_{orl rat}: 6200 mg/kg LC_Lowihl gpg: 21.9 g/m3 LC_Loworl hmn: LC50_{ihl mouse}: 1400 mg/kg [4h] 39 g/m³ LC50_{ihl rat}: [10h] 20 g/m³ LD50_{drm rbt}: 20 000 mg/kg LD50_{oral mouse}: 3450 mg/kg TRGS 905 (DE): K5, M5, R_F C

CAS No.: 77-86-1 Chemical: tris(hydroxymethyl)aminomethane

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

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

Japan ISHL: not listed South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-01403 5000 mg/kg LD50_{orl rat}:

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

TSCA Inventory: all listed, <1%

100 mL TL H 2

Chemical: ethylendinitrilo tetraacetic acid, di Na-salt (EDTA-Na) CAS No.: 6381-92-6

listed (CAS 139-33-3) TSCA Inventory:

LD50_{orl rat}: 2800 mg/kg

SECTION 12: Ecological information

12.1 **Toxicity**

Following information is valid for pure substances.

15 mL Ind. H 2

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

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

LC50_{fish/96h}: >1000 mg/L >1000_{24h} mg/L 1 WGK No.: 0201 EC50_{daphnia/48h}: Water hazard class (DE):

Dispersion coefficient_(octanol-water): -2.3 Storage class (VCI):

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

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

LC50_{daphnia magna/48h}: >100 mg/L LC50_{pimephales} promelas/96h: 13400 - 15100 mg/L LC50_{leuciscus idus/96h} [48h] 8140 mg/L $LC50_{fish/96h}$: 13 g/L EC50_{daphnia/48h}: 9.3-14.2 g/L IC50scenedesmus quadricauda/72h: [7d] 5000 mg/L EC10_{pseudomonas} putita/16h: Water hazard class (DE): [EC5] 6500 mg/L

WGK No.: 0096 Dispersion coefficient_(octanol-water): -0.31 Storage class (VCI):

tris(hydroxymethyl)aminomethane CAS No.: 77-86-1

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

LC50_{fish/96h}: LD0 (4d): 1-10 g/L EC50_{pseudokirchneriella} subcapitata/72h: 397;48h: 473 mg/L



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> EC10pseudomonas putita/16h: 1_{3h} g/LWater hazard class (DE): Dispersion coefficient(octanol-water): -1.56 Storage class (VCI): 12-13

CAS No : -Chemical: indicator dye(s)

Storage class (VCI): 12-13

100 mL TL H 2

ethylendinitrilo tetraacetic acid, di Na-salt (EDTA-Na) Chemical: CAS No.: 6381-92-6

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 2.2 mg/L

LC50_{fish/96h}: [4d] 41-1592 mg/L EC50_{daphnia/48h}: 140 mg/L

[72h] 2.77-1000 mg/L IC50_{scenedesmus} quadricauda/72h: EC10_{pseudomonas putita/16h} [EC10, 30h] 500 mg/L

Water hazard class (DE): Dispersion coefficient_(octanol-water): -4.3 Storage class (VCI): 12 - 13

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: 14.4. Packing group:

Road transport ADR

Classification code: M11 Tunnel restriction code:

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

Air transport ICAO

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

Maritime transport IMDG

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

14.1 UN number: 1993 14.2 UN proper shipping name: Flammable liquid, n.o.s. (ethanol mixture)

14.3 Class: 14.4 Packing group: III

Road transport

Classification code F1

Limited Quantity: D/F 5 I Tunnel restriction code: **Excepted Quantity:** E 1 Special instructions: 640E Air transport

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



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Maritime transport

EmS: 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

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, 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

Regulation 849/2021/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)

Regulation 878/2020/EU

Revisions/Updates

Reason for Revision: 2016-03 Adaptation of regulation 1221/2015/EU 2022-11 Adaptation of regulation 878/2020/EU



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