

Safety Data Sheet

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

REF: 935042 VISOCOLOR alpha total Hardness Page: 1/10 Printing date: 22.11.2022 Date of issue: 19.04.2022 Version: 2.2.2.2

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

1.1 **Product identifier**

REF 935042

no data available VISOCOLOR alpha total 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 30 mL HT UFI: 84QU-X3C1-820T-7XPA

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

1.4 **Emergency telephone number**

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service. Supplier:

DE: Gemeinsames Giffinformationszentrum (GGIZ) Carl Roth GmbH + Co KG

99089 Erfurt tel. +49 361 730 730, https://www.ggiz-erfurt.de

You find our current versions of SDS in Internet:

Carl Roth Gmbri 3-5

Carl Roth Gmbri 4-6

Carl Roth

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

76185 Karlsruhe, Germany +49 721 5606 0 sicherheit@carlroth.de

SECTION 2: Hazard identification

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





GHS02

GHS07

Signal word **WARNING**

Hazard identification Hazard classes/categories

H226 Flam. Liq. 3 H319 Eye Irrit. 2

2.1 Classification of the substance or mixture according to Regulation (EC) 1272/2008

30 mL HT





WARNING Signal word



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

List of H phrases: see section 16.2

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).

30 mL HT





GHS0

Signal word: WARNING

Label elements of the complete product





GHS02

GHS07

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

Possible endocrine disrupting effects

no data available

SECTION 3: Composition / information on ingredients

3.1 Substances or 3.2 Mixtures

30 mL HT

Substance name: ethylendinitrilo tetraacetic acid, di Na-salt (EDTA-Na)

CAS No.: 6381-92-6

Substance rating: H332, Acute Tox. 4 inh., H373, STOT SE 3

Formula: $C_{10} H_{14} N_2 Na_2 O_8 \cdot 2 H_2 O$

Pseudonym (de): Titriplex® III
EC No.: 205-358-3
Concentration: 1 - <5 %

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

Substance name: 2-propanol CAS No.: 2-propanol

Substance rating: H225, Flam. Liq. 2, H319, Eye Irrit. 2, H336, STOT SE 3

Formula: C₃H₈O

Pseudonym (de): Isopropanol, IPA, Propan-2-ol REACH Reg. No.: 01-2119457558-25-XXXX

EC No.: 200-661-7 Indice No.: 603-117-00-0

Concentration: 15 - <20 %

acc. CLP (GHS): H226, Flam. Liq. 3, H319, Eye Irrit. 2



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Substance name: indicator dye(s)

CAS No.:

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

Concentration: 0,01 - <0,1 %

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 16.2.

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

5.1.1 Suitable 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. 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.

5.1.2 Unsuitable extinguishing media

no data available

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.



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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

Safe storage is guaranteed in the original packaging . Storage class (German chemical industry): see chapter 12.1

Storage class (VCI): Water hazard class (DE):

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

30 ml HT

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): Z.Z IIIg/L PNEC = Predicted No Effected Concentration

CAS No.: 67-63-0 Chemical: 2-propanol

[inh] 500 mg/m³ DNEL = Derived No-Effect Level (for workers) PNEC (fresh water): 140.9 mg/L PNEC = Predicted No Effected Concentration

TRGS 900 (DE): 200 ppm / 500 mg/m³

E/e respirable

Short-term exposure factor: 2 (II), Y

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

SUVA(CH) MAK value: 200 ppm / 500 mg/m³ TRGS 903 (DE):

[Aceton B/b, U/b] 25 mg/L B blood, U urine, a no limitation, b end of exposition or shift

[TWA] 400 ppm / 980 mg/m³

NIOSH STEL: 500 ppm / 1225 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] 400 ppm / 980 mg/m³

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

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 Skin protection / 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.



Software: M2 V 6.0.20.60

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8.2.3 Eye / Face 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.

8.2.6 Thermal hazards no data available

8.3 Limitation and monitoring of environmental exposure

Do not release product into environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

30 mL HT

a) State of aggregation:

b) Colour: colourless c) Odor: red d) Melting point: no data available e) Boiling point: no data available f) Flammability: no data available g) Explosive limits (lower / upper): no data available h) Flash point: 28 °C i) Flashing temperature: no data available j) Decomposition temperature: no data available k) pH value: 10-11 I) Kinematic viscosity: no data available

N) Fir value.

N) Kinematic viscosity:

n) Solubility in water:

n) Dispersion coefficient (o/w):

n) Vapour pressure (20°C):

p) Specific gravity:

q) Relative vapour density (air=1):

r) Particle size:

no data available

no data available

no data available

no data available

9.2 Other information

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required. **Properties relevant to substance groups**

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

no additional data available



Software: M2 V 6.0.20.60

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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.

30 mL HT

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

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

LD50 orl rat : 2800 mg/kg

Chemical: 2-propanol CAS No.: 67-63-0

TSCA Inventory: California Proposition 65 List: not listed listed

1230 ppm ACGIH:

Exposure Routes: inhalation, ingestion, skin and/or eye contact

Target Organs: Eyes, skin, respiratory system

Symptoms: irritation eyes, nose, throat; drowsiness, dizziness, headache; dry cracking skin; in animals: narcosis

Australia NICNAS: Canada CEPA 1999: DSL yes

PAC yes, Japan PDSCL: -Japan CSCL/PRTR:

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

South Korea TCCA:

Korea Exist.Chem.Inventory: KE-29363 LD50 orl rat: 5045 mg/kg 3570 mg/kg LC_Low orl hmn: LC50 ihl rat: 25 mg/L/4H

TRGS 905 (DE): RFC

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

TSCA Inventory: all listed, <1%

11.2 Other hazards

Possible endocrine disrupting effects

no data available

Other information

no additional data available

SECTION 12: Ecological information

12.1 **Toxicity**

Following information is valid for pure substances.

30 mL HT

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

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, 30h] 500 mg/L EC10 pseudomonas putita/16h:

Water hazard class (DE): Dispersion coefficient (o/w): Storage class (VCI): 12-13

CAS No.: 67-63-0 Chemical: 2-propanol

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 140.9 mg/L

LC50 fish/96h: 1400 mg/L EC50 daphnia/48h: 13.3 g/L >1000 mg/L IC50 scenedesmus quadricauda/72h EC5: 1050 mg/L EC10 pseudomonas putita/16h: WGK No.: 0135 Water hazard class (DE):



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> Dispersion coefficient (o/w): 0.05 Storage class (VCI):

CAS No .: indicator dye(s)

Storage class (VCI): 12-13

Persistence and degradability 12.2

not necessary

12.3 **Bioaccumulative potential**

not necessary

12.4 Mobility in soil

not necessary

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

12.6 **Endocrine disrupting properties**

no data available

12.7 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

3316 14.1. UN number:

14.2. UN proper shipping name: Chemical Kit 14.3. Class: 14.4. Packing group:

Road transport ADR

Classification code: Tunnel restriction code:

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

Air transport ICAO

PAX: 960 max. weight PAX: 10 KG CAO: 960 max. weight CAO: Maritime transport IMDG F-A, S-P Α EmS: Storage category:

Or use Alternative declaration for transportation:

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

14.1 UN number: 1993 14.2 UN proper shipping name: Flammable liquid, n.o.s. (2-propanol mixture)

14.3 Class: 14.4 Packing group: III 3

Road transport ADR Classification code:

Limited Quantity: Tunnel restriction code: **Excepted Quantity:** E 1 Special instructions: 640E

Air transport ICAO

Limited Quantity: LQ 7 **Excepted Quantity:** E 1

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

Maritime transport IMDG

EmS: F-E, S-E Storage category:



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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

Dangerous Substances Protection Act (DE: Chemikaliengesetz - ChemG), Aug 2013, Stand: Okt 2020

Ordinance on protection against dangerous substances (E: Gefahrstoffverordnung - GefStoffV), Nov 2010, Stand: Mrz 2017

TRGS 201, Classification and labeling of activities involving hazardous substances, Feb 2017

TRGS 220, National aspects when preparing safety data sheets, Jan 2017

TRGS 400, Risk assessment for activities involving hazardous substances, Jul 2017

BekGS 408, Application of the GefStoffV and the TRGS with the entry into force of the CLP regulation, December 2009, status: Jan

MN leaflet/instructions for use, also at www.mn-net.com

If necessary, observe other country-specific regulations.

15.2 Chemical safety assessment

not necessary for these small amounts

SECTION 16: Other information

16.1 Changes compared to the last version

in preparation

16.2 List of H and P phrases

16.2.1 List of relevant H phrases

Flammable liquid and vapour. H319 Causes serious eye irritation.

16.2.2 List of relevant P phrases

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

P280sh Wear protective gloves/eye protection.

16.3 Recommended restriction on use

Only for professional user.

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

16.4 Sources of key data

KÜHN, BIRETT leaflets on dangerous working materials

Directive 1999/92/EG Minimum requirements to improve the safety and health protection of workers at risk from potentially explosive atmospheres

SUVA .CH, limit values in the air at work 2009, revised on 01/2009

Regulation 790/2009/EU Adaptation of the CLP Regulation 1272/2008/EU to technical and scientific progress

Regulation 453/2010/EU REACH – REQUIREMENTS FOR THE PREPARATION OF SAFETY DATA SHEET

Regulation 487/2013/EU, 4. Adaptation of the CLP regulation to technical and scientific progress

Regulation 669/2018/EU, 4. Adaptation of the CLP regulation to technical and scientific progress Regulation 1480/2018/EU, 4. Adaptation of the CLP regulation to technical and scientific progress

TRGS 900, German engineering rules on limit values in the air at work, as of 03/2019

Regulation 878/2020/EU

Regulation 849/2021/EU, 4. Adaptation of the CLP regulation to technical and scientific progress

Revisions/Updates

2014-02 Corrected structure of the sections according to Regulation 453/2010/EU, if necessary Reason for revision:

> 2014-04 Adjustment of Regulation 487/2013/EU 2016-03 Adjustment of Regulation 1221/2015/EU

2017-11 adaptation of the ECHA registration dossier 2022-11 Adjustment of Regulation 878/2020/EU



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16.5 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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16.6 Legend / Abbreviations

according

ADR: Convention concerning the International Carriage of Dangerous Goods by Road

Act:

BAT: biological workplace tolerance value

Cargo Aircraft Only CAO.

Carc: carcinogen

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging regulation

CMR: carcinogen, mutagen, reproduction toxic

corrosive Corr:

COD: chemical oxigen demand

CSCL: Chemical Substance Control Law (Jp) Dam:

Derived No-Effect Level (for workers) DNEL:

dermal derm: dog: dog

EC10: Concentration causing a toxic effect in 10% of the test organisms

EC: **European Community**

EC-Nr: Substance number of the EC substance inventory EmS: Guide to accident management measures on ships

FU: **Furopean Union** fish: fish (not spezified)

GHS: Global Harmonized System of Classification and Labeling of Chemicals

qpq:

ĬĊĂO: International Civil Aviation Organization

inhaled ihl:

IMDG: International Maritime Dangerous Goods Code

intrav: intravenous intraperitonaeal ipt:

ISHL: Industrial Safety and Health Law (Jp)

LC50: letale concentration 50% letale dosis 50% I D50:

leuciscus idus: fisch, ide, orfe MAK: maximum workplace concentration

Met: Metall mus: mouse Muta: mutagen

National Institute for Occupational Safety and Health (US) NIOSH:

NRD: Non-rapidly degradable

onchorhynchus mykiss: fish, rainbow trout

orl:

OSHA: Occupational Safety and Health Administration PAX. transport on passenger planes allowed PBT. persistent, bioaccumulating, toxic substance

pH: pH value

pimephales promelas: fish, fathead minnow Predicted No Effected Concentration PNEC: PROC 15: Process category 'for laboratory use'

Law for PRTR and Promotion of Chemical Management (Jp) PRTR:

PVC: polyvinyl chloride quail: bird, quail rat: rat rabbit rbt:

RD: rapidly degradable

RF.

REACh: Registration, Evaluation, Authorisation and Restriction of Chemicals

item number, reference number RFF

Reg.No.: rRegistration number



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Repr: harmful to reproduction

Resp: respiratory

RIP: REACH Implementations Projects

scu: sub cutan
SDS: safety data sheet
Sens: sensitisation

STEL: short term exposure limit
STOT: Specific Target Organ Toxicity
SVHC: Substance of Very High Concern

t/a: tons per year

TCCA: Toxic Chemicals Control Act (S. Korea)

Tox: toxic

TSCA: The Toxic Substances Control Act (US)

TWA: time weighted average TRGS: technical regulations (DE)

vPvB: very persistent, very bioaccumulating substance

16.7 Training advice

Regular safety training. Multiple safety training of staffs about danger and protection by using hazards in working area. Additionally training and introduction of staffs for using these products.