

Safety Data Sheet

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

VISOCOLOR ECO Nitrite Page: 1/8 Printing date: 06.01.2021 Date of issue: 03.12.2020

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

1.1 **Product identifier**

REF 931044

Product name VISOCOLOR ECO Nitrite

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 NO₂ -1 1 x 5 g NO₂ -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

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

Information not necessary.

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

Hazard identification Hazard classes/categories H290 Met. Corr. 1

2.1 Classification of the substance or mixture

30 mL NO₂ -1

Do not need labelling as hazardous

Signal word

Hazard identification Hazard classes/categories

H290 Met. Corr. 1

5 g NO₂ -2

Do not need labelling as hazardous

Signal word

No hazard class

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2.2 Label elements

Metal corrosive solutions do not have to be labelled with GHS symbol, signal word, H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2.1.3).

30 mL NO₂ -1

Do not need labelling as hazardous

Signal word: -

5 g NO₂ -2

Do not need labelling as hazardous

Signal word: -

2.3 Other hazards

Possible hazards from physicochemical properties

According to our current status of knowledge and experience we state, that this product does not contain any substances, which in accordance with EC regulations 1272/2008/EC, 1907/2006/EC and German Regulations for Hazardous goods - have to be declared as dangerous goods, either because of their applied concentration or because of their total amount in anyone kit. An individual package has considerably less hazardous potential. The sentence H290 "May be corrosive to metals." has only relevance for longer transportation time of larger amounts. The labelling GHS05 would be creating an "OVERLABELLING" (see GHS Directive 1272/2008/EC Annex I, chapter 1.5.2.1.3.). --

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

30 mL NO₂ -1

Chemical: sulfanilamide CAS No.: 63-74-1

Classification: H303, Acute Tox. 5 oral C₆ H₈ N₂ O₂ S Formula: 4-aminobenzene sulfonamide Pseudonym:

TSCA Inventory: listed

EC No.: 200-563-4 RTECS: WO8400000 MFCD:

KE No.: KE-01188 Concentration: 1 - < 10 %

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

Chemical: o-phosphoric acid CAS No.: 7664-38-2

Classification: H290, Met. Corr. 1, H302, Acute Tox. 4 oral, H314, Skin Corr. 1B

H₃ PO₄ •H₂ O Formula: Pseudonym: orthophosphoric acid

TSCA Inventory: listed

REACH Reg. No.: 01-2119485924-24-xxxx

EC No.: 231-633-2 015-011-00-6 Indice No.:

RTECS: TB6300000 KE-27427 KE No.: Concentration: 1 - < 10 % acc. CLP (GHS): H290, Met. Corr. 1

5 g NO₂ -2

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> Chemical: N-(1-naphthyl)-ethylendiamine dihydrochloride CAS No.: 1465-25-4

Classification: H315, Skin Irrit. 2, H319, Eye Irrit. 2

Formula: C₁₂ H₁₆ Cl₂ N₂

Pseudonym: N1-1-naphthalenyl-1,2-ethanediamine, dihydrochloride

TSCA Inventory: listed EC No.: 215-981-2

RTFCS KV5330000 KE No .: not listed

Concentration: 1 - <10 % acc. CLP (GHS): The criteria for classification are not fulfilled

Chemical: citric acid CAS No.: 77-92-9

MFCD:

00012556

H303, Acute Tox. 5 oral, H316, Skin Irrit. 3, H319, Eye Irrit. 2 Classification:

Formula: C₆ H₈ O₇

Pseudonym: 2-hydroxy-1,2,3-propanetricarboxylic acid

TSCA Inventory: listed

REACH Reg. No.: 01-2119457026-42-xxxx

EC No.: 201-069-1

GE7350000/GE7810000 RTECS:

KE No.: KE-20831 Concentration: 1 - < 10 %

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%.

SECTION 4: First aid measures

4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately.

4.1.1 **After SKIN Contact**

Not necessary.

4.1.2 **After EYE Contact**

Not necessary.

After INHALATION of vapours 4.1.3

Not necessary. ---

4.1.4 After ORAL Intake

Not necessary. ---

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

5.3 Advice for firefighters

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

5.4 Additional information

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Not necessary.

6.2 **Environmental precautions**

not necessary

6.3 Methods and material for containment and cleaning up

Clean working area with water. Flush used 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): 8B Water hazard class (DE): 3

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 NO₂ -1

Chemical: sulfanilamide CAS No.: 63-74-1

Chemical: o-phosphoric acid CAS No.: 7664-38-2

2.92 mg/m³ DNEL: DNEL = Derived No-Effect Level (for workers)

EU value: [TWA] 1 /[STEL] 2 mg/m³ TRGS 900 (DE):

[8h] 1 / [15min] 2 mg/m³ 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: 1 mg/m³

NIOSH: TWA 1 / ST 3 mg/m³

NIOSH STFL: 3 mg/m^3

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

OSHA: TWA 1 mg/m³

5 g NO₂ -2

Chemical: N-(1-naphthyl)-ethylendiamine dihydrochloride CAS No.: 1465-25-4

Chemical: citric acid CAS No.: 77-92-9

PNEC (fresh water): 440 IIIg/L PNEC = Predicted No Effected Concentration TRGS 900 (DE): 2 E mg/m³ Short-term exposure factor: 2 (I) Y

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

8.2 **Exposure controls**

Not necessary. Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities.

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8.2.1 Respiratory protection

Not necessary

8.2.2 Hand protection

Not necessary.

8.2.3 Eye protection

Not necessary.

8.2.4 Skin protection

Not necessary

8.2.5 Personal hygiene

Information not necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

30 mL NO₂ -1

Appearance: liquid Colour: colourless Odor: odorless 2-3

pH:

Specific gravity: 1,04 g/cm³

5 g NO₂ -2

Appearance: powder (solid) Colour: colourless Odor: odorless

pH: 2-3

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

None

10.2 Chemical stability

No known instability.

10.3 Possibility of hazardous reactions

None.

10.4 Conditions to avoid

Not known ---

Incompatible materials 10.5

Not known.

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.

30 mL NO₂ -1

Chemical: sulfanilamide CAS No.: 63-74-1

TSCA Inventory: listed Korea Exist.Chem.Inventory: KE-01188 LD50_{orl rat}: 3900 mg/kg

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> Chemical: o-phosphoric acid CAS No.: 7664-38-2

TSCA Inventory: California Proposition 65 List: not listed listed

ACGIH: 1 ppm

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

Target Organs: Eyes, skin, respiratory system

Symptoms: irritation eyes, skin, upper respiratory system; eye, skin, burns; dermatitis

Australia NICNAS: not listed Canada CEPA 1999: DSL Yes

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

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

South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-27427 LD50_{orl rat}: 1530 mg/kg LC50_{ihl rbt}: 1.689 mg/L LD50_{drm rbt}: 2750 mg/kg

TRGS 905 (DE): R_F C

5 g NO₂ -2

Chemical: N-(1-naphthyl)-ethylendiamine dihydrochloride CAS No : 1465-25-4

TSCA Inventory: listed Korea Exist.Chem.Inventory: not listed

CAS No.: 77-92-9 Chemical: citric acid

TSCA Inventory: listed Korea Exist.Chem.Inventory: KE-20831 LD50_{orl rat}: >3000 mg/kg LC50_{ihl rat}: 5800 mg/m³ LD50_{drm rat}: >2000 mg/kg LD50_{orl mus}: 5400 mg/kg LD50_{scu rat}: 5500 mg/kg

SECTION 12: Ecological information

12.1 **Toxicity**

Following information is valid for pure substances.

30 mL NO₂ -1

CAS No.: 63-74-1 Chemical: sulfanilamide

Water hazard class (DE): WGK No.: n.n.

12-13 Storage class (VCI):

Chemical: o-phosphoric acid CAS No.: 7664-38-2

LC50_{fish/96h}: 3-3.5 mg/L Water hazard class (DE): WGK No.: 0392

Storage class (VCI): 8 B

5 g NO₂ -2

Chemical: N-(1-naphthyl)-ethylendiamine dihydrochloride CAS No.: 1465-25-4

Water hazard class (DE): Storage class (VCI): 13

Chemical: citric acid CAS No.: 77-92-9

PNEC(fresh water):
PNEC = Predicted No Effected Concentration 440 mg/L

 $LC50_{leuciscus\ idus/96h}$: 440-760 ma/L EC50_{daphnia/48h}: 1535_{24h} mg/L IC50_{scenedesmus} quadricauda/72h: 7d: 425-640 mg/L

EC10_{pseudomonas} putita/16h : Water hazard class (DE): EC0: >10 g/L WĞK No.: 0057

Dispersion coefficient(octanol-water): -1.72 Storage class (VCI): 12 - 13

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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

Not necessary.

13.1 Waste treatment methods

GENERAL: Empty solids into municipal waste, empty liquids diluted into drains. Normally it is possible to empty small amounts (diluted!)

SECTION 14: Transport information

14.1 - 14.4: No dangerous goods according the transport regulations

14.5 **Environmental hazards**

14.6 Special precautions for user

not necessary

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

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

MN Leaflet/User manual, also see www.mn-net.com

Look for your country-specific regulations.

15.2 Chemical safety assessment

SECTION 16: Other information

16.1 List of H and P phrases

16.1.1 List of relevant H phrases

May be corrosive to metals.

16.1.2 List of relevant P phrases

Absorb spillage to prevent material damage.

16.2 Training advice

Regular safety training.

16.3 Recommended restriction on use

None

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 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

Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

Revisions/Updates

KÜHN, BIRETT

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

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