

# **Safety Data Sheet**

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

VISOCOLOR ECO Nitrate Page: 1/8

Printing date: 09.03.2022 Date of issue: 03.12.2020

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

### 1.1 **Product identifier**

REF 931041

Product name VISOCOLOR ECO Nitrate

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 NO<sub>3</sub>-1 1 x 5 g NO<sub>3</sub> -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

E-mail: sds@mn-net.com (msds@mn-net.com) Tel.: +49 2421 969 0

### 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



GHS09

Signal word

Hazard identification Hazard classes/categories

H411 Aquatic Chronic 2

### 2.1 Classification of the substance or mixture

30 mL NO<sub>3</sub> -1

Do not need labelling as hazardous

Signal word No hazard class

5 g NO<sub>3</sub> -2



Version: M V 4.23.9

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Signal word Do not need labelling as hazardous

Hazard identificationHazard classes/categoriesH411Aquatic Chronic 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** must not be labelled with H and P phrases **until 125 mL** (EU 1272/2008 Annex I - 1.5.2).

30 mL NO<sub>3</sub> -1

Do not need labelling as hazardous

5 g NO<sub>3</sub> -2



GHS09

Signal word: -

### 2.3 Other hazards

Possible hazards from physicochemical properties

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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

---

## **SECTION 3: Composition/information on ingredients**

## 3.1 Substances or 3.2 Mixtures

30 mL NO<sub>3</sub> -1

Chemical: *m-phenylenediammonium dichloride* CAS No.: 541-69-5

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

Formula:  $C_6 H_{10} Cl_2 N_2$ 

Pseudonym: 1,3-benzenediamine, dihydrochloride

TSCA Inventory: listed

EC No.: 208-790-0 Indice No.: 612-148-00-9 RTECS: SS9800000 MFCD: 00012975

KE No.: KE-05-1004, >25% Toxic 97-1-334

Concentration: < 0,10 %

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



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Chemical: citric acid CAS No.: 77-92-9 Classification: H303, Acute Tox. 5 oral, H316, Skin Irrit. 3, H319, Eye Irrit. 2, H335, STOT SE 3

Formula: C<sub>6</sub> H<sub>8</sub> O<sub>7</sub>

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

TSCA Inventory: listed

REACH Reg. No.: 01-2119457026-42-xxxx EC No.: 201-069-1 RTECS: GE7350000/GE7810000

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

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

5 g NO<sub>3</sub> -2

Chemical: zinc powder (stabilizied) CAS No.: 7440-66-6

Classification: H410, Aquatic Chronic 1

Formula: Zn

TSCA Inventory: listed

REACH Reg. No.: 01-2119467174-37-xxxx

EC No.: 231-175-3 Indice No.: 030-002-01-9

RTECS: ZG8600000 KE No.: KE-35518 Concentration: 2,5 - <10 %

acc. CLP (GHS): H411, Aquatic Chronic 2

### 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

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.



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#### 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, contains only small amounts of these substances

#### 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): 6.1D 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 NO<sub>3</sub> -1

m-phenylenediammonium dichloride CAS No : 541-69-5 Chemical:

TRGS 900 (DE): - (0.1Ealt) mg/m3

E/e respirable

Short-term exposure factor: 2 (II)

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

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

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

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

Short-term exposure factor: 2 (I) Y

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

5 g NO<sub>3</sub> -2

zinc powder (stabilizied) CAS No.: 7440-66-6

DNEL: 1<sub>inh</sub> mg/m<sup>3</sup> DNEL = Derived No-Effect Level (for workers) 0.1A / 2E mg/m<sup>3</sup> TRGS 900 (DE): E/e respirable

### 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.



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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

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

8.2.4 Skin protection

Not necessary.

Personal hygiene 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.

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

### 9.1 Information on basic physical and chemical properties

30 mL NO<sub>3</sub> -1

Appearance: liquid Colour: rose Odor: odorless

pH: 2-3

5 g NO<sub>3</sub> -2

Appearance: powder (solid) Colour: slightly grey Odor: odorless

6.5 - 7.5

#### 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

#### 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 NO<sub>3</sub> -1

Chemical: m-phenylenediammonium dichloride

TSCA Inventory: listed

Korea Exist.Chem.Inventory: KE-05-1004, >25% Toxic 97-1-334

LD50<sub>orl rat</sub>: 280 mg/kg

EU carcinogen: mut. 3 TRGS 905 (DE): K3B, M3



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> TRGS 907 (DE): Sh

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

TSCA Inventory: listed Korea Exist.Chem.Inventory: KE-20831 LD50<sub>orl rat</sub>: >3000 mg/kg LC50<sub>ihl rat</sub>: 5800 mg/m<sup>3</sup> LD50<sub>drm rat</sub>: >2000 mg/kg LD50<sub>orl mus</sub>: 5400 mg/kg 5500 mg/kg LD50<sub>scu rat</sub>:

5 g NO<sub>3</sub> -2

Chemical: zinc powder (stabilizied) CAS No.: 7440-66-6

TSCA Inventory: listed Korea Exist.Chem.Inventory: KE-35518 LD50<sub>orl rat</sub>: >2000 mg/kg 124<sub>50min</sub> mg/m<sup>3</sup> LC\_Lowinh hmn: LC50<sub>ihl rat</sub>: >5.4<sub>4h</sub> mg/m<sup>3</sup>

## **SECTION 12: Ecological information**

### 12.1 **Toxicity**

Following information is valid for pure substances.

30 mL NO<sub>3</sub> -1

Chemical: m-phenylenediammonium dichloride CAS No.: 541-69-5

Water hazard class (DE): WGK No.: 1312

Storage class (VCI): 6.1 D

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

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

LC50<sub>leuciscus idus/96h</sub>: 440-760 mg/L EC50<sub>daphnia/48h</sub>: 1535<sub>24h</sub> mg/L 7d: 425-640 mg/L IC50<sub>scenedesmus</sub> quadricauda/72h: EC0: >10 g/L EC10<sub>pseudomonas putita/16h</sub>: WGK No.: 0057

Water hazard class (DE):

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

5 g NO<sub>3</sub> -2

zinc powder (stabilizied) CAS No.: 7440-66-6

Toxic to aquatic life with long lasting effects. Avoid contact of substance/mixture to environment. Environmental hazards must not be labelled with H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).

LC50<sub>fish/96h</sub>: 2.01 mg/L EC50<sub>daphnia/48h</sub>: 0.131 mg/L

EC50pseudokirchneriella subcapitata/72h: IC50: 0.713 mg/L Water hazard class (DE): 2 WGK No.: WGK No.: 7325

Storage class (VCI): 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



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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 - 14.4: No dangerous goods according the transport regulations

#### 14.5 **Environmental hazards**

none, contains only small quantities of hazardous substances, contains only small amounts of these 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

Toxic to aquatic life with long lasting effects.

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



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Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

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 Regulation 1480/2018/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress Regulation 849/2021/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 03/2019 SUVA .CH, Limits in air at work 2009, revised on 01.2009

Revisions/Updates

KÜHN, BIRETT

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

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