

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

NANOCOLOR ortho Phosphate 1, Robot Page: 1/9

Printing date: 06.01.2021 Date of issue: 14.12.2020

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

#### 1.1 **Product identifier**

REF 985607

Product name NANOCOLOR ortho Phosphate 1, Robot

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 5 mL ortho Phosphate (B2) 1 x 6 mL ortho-Phosphat (C) 20 x 1.3 mL ortho-Phosphate (A) 1 x 2 g ortho-Phosphate (B1)

#### 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.

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**

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service. 99089 Erfurt tel. +49 361 730 730 DE: Gemeinsames Giftinformationszentrum (GGIZ)

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



GHS07

Signal word WARNING

Hazard identification Hazard classes/categories

H315 Skin Irrit. 2 H319 Eye Irrit. 2

#### 2.1 Classification of the substance or mixture

5 mL ortho Phosphate (B2)

Do not need labelling as hazardous

Signal word

No hazard class

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# MACHEREY-NAGEI



# **Safety Data Sheet**

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### 6 mL ortho-Phosphat (C)



Signal word WARNING

Hazard identification Hazard classes/categories H315 Skin Irrit. 2 H319 Eye Irrit. 2

### 1.3 mL ortho-Phosphate (A)



Signal word WARNING

Hazard identification Hazard classes/categories H315 Skin Irrit. 2 H319 Eye Irrit. 2

2 g ortho-Phosphate (B1)

Do not need labelling as hazardous

Signal word

No hazard class

#### 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). Inner packages up to 10 mL need max. 2 symbols (Annex I - 1.5.2.4.1 / 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).

### 5 mL ortho Phosphate (B2)

Do not need labelling as hazardous Signal word: -

## 6 mL ortho-Phosphat (C)



GHS07

Signal word: WARNING

### 1.3 mL ortho-Phosphate (A)



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Signal word: WARNING

## 2 g ortho-Phosphate (B1)

Do not need labelling as hazardous

Signal word: -

#### 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. ---

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**

### 5 mL ortho Phosphate (B2)

CAS No.: 7732-18-5 Chemical:

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

Formula:  $H_2O$ TSCA Inventory: listed

REACH Reg. No.: exempt, Annex IV EC No.: 231-791-2 RTFCS: ZC0110000 KE No.: KE-35400 Concentration: 90 - <100 %

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

## 6 mL ortho-Phosphat (C)

Chemical: ammonium heptamolybdate CAS No.: 12054-85-2

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

Formula: H<sub>24</sub> Mo<sub>7</sub> N<sub>6</sub> O<sub>24</sub>

Pseudonym: hexaammonium heptamolybdate TSCA Inventory: listed (CAS 11098-84-3) REACH Reg. No.: 01-2119498057-28-xxxx

EC No.: 234-722-4

QA5076000 / QA4900000 MFCD: 00167059 RTFCS:

KE No.: not listed

Concentration: Correlation factor: x 0.58 (= %Mo) The classification refers to weight percent of the metal (according to CLP Regulation 2008/1272/EC Annex VI, 1.1.3.2 Note 1)

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

Chemical: sulfuric acid (diluted < 5 %) CAS No.: 7664-93-9d

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

Formula: H<sub>2</sub> SO<sub>4</sub> •H<sub>2</sub> O TSCA Inventory: listed

REACH Reg. No.: 01-2119458838-20-xxxx

231-639-5 016-020-00-8 EC No.: Indice No:

RTFCS: WS5600000 KE No .: KE-32570 Concentration: 5 - < 15 %

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

### 1.3 mL ortho-Phosphate (A)

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> Chemical: sulfuric acid CAS No.: 7664-93-9

H314. Skin Corr. 1B Classification: Formula: H<sub>2</sub> SO<sub>4</sub> (•H<sub>2</sub> O)

TSCA Inventory: listed

REACH Reg. No.: 01-2119458838-20-xxxx

EC No.: 231-639-5 Indice No.: 016-020-00-8

WS5600000 RTFCS KE No .:

KE-32570, >10% Toxic 97-1-405, Acc. Precaution Chem. Concentration: 5 - <15 %

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

2 g ortho-Phosphate (B1)

CAS No.: 134-03-2 Chemical: sodium L(+)-ascorbate

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

Formula: C<sub>6</sub> H<sub>7</sub> NaO<sub>6</sub>

Pseudonym: L-ascorbic acid, sodium salt (1:1)

TSCA Inventory: listed EC No.: 205-126-1 Concentration: 90 - <100 %

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

Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use

4.1.2

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

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

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### 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.

#### 64 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. Use a safety bottle when shaking test tubes.

#### 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):

#### 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**

5 mL ortho Phosphate (B2)

CAS No.: 7732-18-5 Chemical: water

6 mL ortho-Phosphat (C)

CAS No.: 12054-85-2 Chemical: ammonium heptamolybdate

TRGS 900 (DE): [Mo] 5 E mg/m<sup>3</sup> E/e respirable

SUVA(CH) MAK value: [Mo] 5 e mg/m<sup>3</sup>

Chemical: sulfuric acid CAS No.: 7664-93-9d

DNEL: 50 μg/m<sup>3</sup> DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 2.3 µy/L
PNEC = Predicted No Effected Concentration

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

Short-term exposure factor: 1 (I)

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

SUVA(CH) MAK value:

i: NTP Report on Carcinogens (RoC) List Yes (Known to be a human carcinogen); TWA 1 mg/m³ [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period NIOSH:

OSHA: [TWA] 1 mg/m<sup>3</sup>

1.3 mL ortho-Phosphate (A)

Chemical: sulfuric acid CAS No.: 7664-93-9

DNEL: [inh] 50 µg/m3 DNEL = Derived No-Effect Level (for workers)  $\begin{array}{ccc} PNEC (\text{fresh water}) : & 2.5 \ \mu\text{g/L} \\ PNEC = \text{Predicted No Effected Concentration} \end{array}$ 

EU value: 0.1 e mg/m<sup>3</sup> TRGS 900 (DE): 0.1 E mg/m3 E/e respirable

Short-term exposure factor: 1 (I), Y

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

SUVA(CH) MAK value: 0,1 e mg/m<sup>3</sup>

NIOSH: NTP Report on Carcinogens (RoC) List Yes (Known to be a human carcinogen); [TWA] 1 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] 1 mg/m<sup>3</sup>

2 g ortho-Phosphate (B1)

Chemical: sodium L(+)-ascorbate CAS No.: 134-03-2

#### 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

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.

Skin protection 8.2.4

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.

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

#### 9.1 Information on basic physical and chemical properties

5 mL ortho Phosphate (B2)

Appearance: liquid Colour: colourless Odor: odorless

6 mL ortho-Phosphat (C)

Appearance: liquid Colour: slightly yellow Odor: odorless

pH:

Specific gravity: 1,11 g/cm<sup>3</sup> Solubility in water: 0-100 %

1.3 mL ortho-Phosphate (A)

Colour: -Odor: -Appearance: -

2 g ortho-Phosphate (B1)

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

[10%] 6-7.5 Solubility in water: 0-38 %

#### 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.

**Chemical stability** 10.2

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## MACHEREY-NAGEL



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No known instability.

10.3 Possibility of hazardous reactions

No further data available

10.4 Conditions to avoid

Observe labeled storage temperature. ---

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.

5 mL ortho Phosphate (B2)

Chemical: CAS No.: 7732-18-5

TSCA Inventory: listed Korea Exist.Chem.Inventory: KE-35400

6 mL ortho-Phosphat (C)

Chemical: ammonium heptamolybdate CAS No.: 12054-85-2

TSCA Inventory: listed (CAS 11098-84-3) Japan ISHL: listed ≥1,0%/≥0,1%,

Korea Exist.Chem.Inventory: not listed

sulfuric acid CAS No.: 7664-93-9d Chemical:

TSCA Inventory: listed California Proposition 65 List: not listed

ACGIH: 1 ppm

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

**Target Organs:** Eyes, skin, respiratory system, teeth

Symptoms: irritation eyes, skin, nose

Australia NICNAS: Canada CEPA 1999: DSL Yes not listed

not listed, Japan PDSCL: Deleterious Substance Japan CSCL/PRTR: Japan ISHL: listed ≥1,0%/≥1,0%, Article 57-2 (SDS required)

South Korea TCCA: Accident Precaution Chemical Yes

Korea Exist.Chem.Inventory: KE-32570 2140 mg/kg LD50orl rat:

[8h] 600/ [4h] 850 mg/m<sup>3</sup> LC50<sub>ihl rat</sub>:

TRGS 905 (DE):

1.3 mL ortho-Phosphate (A)

Chemical: sulfuric acid CAS No.: 7664-93-9

TSCA Inventory California Proposition 65 List: not listed

ACGIH:

**Exposure Routes:** inhalation, ingestion, skin and/or eye contact Target Organs: Eyes, skin, respiratory system, teeth

Symptoms: irritation eyes, skin, nose, throat; pulmonary edema, bronchitis; emphysema; conjunctivitis; stomatis;

dental erosion; eye, skin burns; dermatitis

Australia NICNAS: not listed Canada CEPA 1999: DSL Yes

Japan CSCL/PRTR: not listed. Japan PDSCL: Deleterious Substance Japan ISHL: listed ≥1,0%/≥1,0%, Article 57-2 (SDS required)

South Korea TCCA: Accident Precaution Chemical Yes

Korea Exist.Chem.Inventory: KE-32570, >10% Toxic 97-1-405, Acc. Precaution Chem.

LD50<sub>orl rat</sub>: 2140 mg/kg

[8h] 600/ [4h] 850 mg/m<sup>3</sup> LC50ihl rat:

TRGS 905 (DE): Kat 4

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2 g ortho-Phosphate (B1)

Chemical: sodium L(+)-ascorbate CAS No.: 134-03-2

TSCA Inventory: listed LD50<sub>orl rat</sub>: [acid] 11.9 g/kg

**SECTION 12: Ecological information** 

12.1 **Toxicity** 

Following information is valid for pure substances.

5 mL ortho Phosphate (B2)

Chemical: CAS No.: 7732-18-5

6 mL ortho-Phosphat (C)

Chemical: ammonium heptamolybdate CAS No.: 12054-85-2

Water hazard class (DE): 1 WGK No.: 0637

Storage class (VCI):

Chemical: CAS No.: 7664-93-9d sulfuric acid

2.5 µg/L

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

LC50<sub>fish/96h</sub>: [NOEC, 65d] 25 µg/L

 $EC50_{daphnia/48h}$ : 100 mg/L EC10pseudomonas putita/16h [72h] 100 mg/L

WGK No.: 0182 Water hazard class (DE):

Storage class (VCI): 8 B

1.3 mL ortho-Phosphate (A)

CAS No.: 7664-93-9 Chemical: sulfuric acid

PNEC (fresh water):
PNEC = Predicted No Effected Concentration  $2.5 \mu g/L$ 

LC50<sub>fish/96h</sub>: [NOEC, 65d] 25 µg/L EC50<sub>daphnia/48h</sub>: 100 mg/L EC10<sub>pseudomonas putita/16h</sub>: Water hazard class (DE): [72h] 100 mg/L

WGK No.: 0182

Storage class (VCI): 8 B

2 g ortho-Phosphate (B1)

sodium L(+)-ascorbate Chemical: CAS No : 134-03-2

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

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### **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

#### 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

H315 Causes skin irritation. Causes serious eye irritation.

16.1.2 List of relevant P phrases

Wear protective gloves/eye protection.

#### **Training advice** 16.2

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

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, 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, 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

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