

# Safety Data Sheet

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

REF: 985676

NANOCOLOR tot.Phosphate1, robot

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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 985676  
Product name NANOCOLOR tot.Phosphate1, 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.

20 x 35 mg NANOFIX total Phosphate 1 (R0)  
1 x 2 g total Phosphate (B1)  
1 x 5 mL total Phosphate (B2)  
1 x 6 mL total Phosphate (C)  
1 x 50 mL total Phosphate 1 Reagent A

### 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

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



GHS03



GHS07



GHS08

Signal word

DANGER

#### Hazard identification

H272  
H302  
H315  
H317  
H319  
H334  
H335

#### Hazard classes/categories

Ox. Sol. 2  
Acute Tox. 4 oral  
Skin Irrit. 2  
Skin Sens. 1  
Eye Irrit. 2  
Resp. Sens. 1  
STOT SE 3

### 2.1 Classification of the substance or mixture

35 mg NANOFIX total Phosphate 1 (R0)

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GHS03



GHS07



GHS08

Signal word

DANGER

## Hazard identification

## Hazard classes/categories

H272	Ox. Sol. 2
H302	Acute Tox. 4 oral
H315	Skin Irrit. 2
H317	Skin Sens. 1
H319	Eye Irrit. 2
H334	Resp. Sens. 1
H335	STOT SE 3

### 2 g total Phosphate (B1)

Signal word

Do not need labelling as hazardous

-

No hazard class

### 5 mL total Phosphate (B2)

Signal word

Do not need labelling as hazardous

-

No hazard class

### 6 mL total Phosphate (C)



GHS07

Signal word

WARNING

## Hazard identification

## Hazard classes/categories

H315	Skin Irrit. 2
H319	Eye Irrit. 2

### 50 mL total Phosphate 1 Reagent A



GHS07

Signal word

WARNING

## Hazard identification

## Hazard classes/categories

H315	Skin Irrit. 2
H319	Eye Irrit. 2

## 2.2 Label elements

According **CLP directive** inner packages must be only labelled with GHS symbol(s) and product identifier(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). This labelling exemption is NOT valid for sensibilizing substances.

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Oxidizing mixtures with signal word: **DANGER** and **H272** must not be labelled with H and P phrases **until 125 mL**.

## 35 mg NANOFIX total Phosphate 1 (R0)



GHS03



GHS07



GHS08

Signal word: DANGER

H317, H334

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

P261sh, P280sh, P342+311

Avoid breathing dust/vapours. Wear protective gloves/eye protection. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

## 2 g total Phosphate (B1)

Do not need labelling as hazardous

Signal word: -

## 5 mL total Phosphate (B2)

Do not need labelling as hazardous

Signal word: -

## 6 mL total Phosphate (C)



GHS07

Signal word: WARNING

## 50 mL total Phosphate 1 Reagent A



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. ---

### Information pertaining to particular risks to human and possible symptoms

Cause after oral intake, inhalation of vapours/dust, skin contact, impairments of health when ingested in small quantities. May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled. -

### Information pertaining to particular risks to the environment

PBT: not applicable

vPvB: not applicable

### Other hazards

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances or 3.2 Mixtures

#### 35 mg NANOFIX total Phosphate 1 (R0)

Chemical: *sodium peroxodisulfate*

CAS No.: 7775-27-1

Classification: H272, Ox. Liq. 2, H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H317, Skin Sens. 1, H319, Eye Irrit. 2,

H334, Resp. Sens. 1, H335, STOT SE 3

Formula:  $\text{Na}_2\text{O}_8\text{S}_2$ 

Pseudonym: sodium persulfate

TSCA Inventory: listed

REACH Reg. No.: 01-2119495975-15-xxxx

EC No.: 231-892-1

RTECS: SE0525000

KE No.: KE-12369

Concentration: 80 - &lt;100 %

acc. CLP (GHS): H272, Ox. Liq. 2, H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H317, Skin Sens. 1, H319, Eye Irrit. 2,

H334, Resp. Sens. 1, H335, STOT SE 3

#### 2 g total Phosphate (B1)

Chemical: *sodium L(+)-ascorbate*

CAS No.: 134-03-2

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

Formula:  $\text{C}_6\text{H}_7\text{NaO}_6$ 

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

TSCA Inventory: listed

EC No.: 205-126-1

Concentration: 90 - &lt;100 %

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

#### 5 mL total Phosphate (B2)

Chemical: *water*

CAS No.: 7732-18-5

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

Formula:  $\text{H}_2\text{O}$ 

TSCA Inventory: listed

REACH Reg. No.: exempt, Annex IV

EC No.: 231-791-2

RTECS: ZC0110000

KE No.: KE-35400

Concentration: 90 - &lt;100 %

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

#### 6 mL total Phosphate (C)

Chemical: *ammonium heptamolybdate*

CAS No.: 12054-85-2

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

Formula:  $\text{H}_{24}\text{Mo}_7\text{N}_6\text{O}_{24}$ 

Pseudonym: hexaammonium heptamolybdate

TSCA Inventory: listed (CAS 11098-84-3)

REACH Reg. No.: 01-2119498057-28-xxxx

EC No.: 234-722-4

RTECS: QA5076000 / QA4900000

MFCD: 00167059

KE No.: not listed

Concentration: 2 - &lt;5 %

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:  $\text{H}_2\text{SO}_4 \cdot \text{H}_2\text{O}$ 

TSCA Inventory: listed

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

EC No.: 231-639-5

Indice No.: 016-020-00-8

RTECS: WS5600000

KE No.: KE-32570

Concentration: 5 - &lt;15 %

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

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## 50 mL total Phosphate 1 Reagent A

Chemical: *sulfuric acid*

CAS No.: 7664-93-9

Classification: H314, Skin Corr. 1B

Formula:  $H_2SO_4 \cdot (H_2O)$ 

TSCA Inventory: listed

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

EC No.: 231-639-5

Indice No.: 016-020-00-8

RTECS: WS5600000

KE No.: KE-32570, &gt;10% Toxic 97-1-405, Acc. Precaution Chem.

Concentration: 5 - &lt;15 %

acc. CLP (GHS): H315, Skin Irrit. 2, H319, Eye Irrit. 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. Take to a doctor, in a raised position if there are breathing difficulties.

#### 4.1.1 After SKIN Contact

Remove contaminated clothing immediately. Rinse the affected skin or mucous membrane thoroughly for min. 15 minutes under running water. (If possible) use soap. Avoid neutralisation. Then apply a loose bandage.

#### 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. Administer a Dexamethasone spray as soon as possible. Ensure quiet, warmth, and provide resuscitation if necessary. In the event of respiratory distress ensure that the patient inhales oxygen. Secure the breathing, heart and circulatory function. ---

#### 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

Chronic Effects: May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled. ---

### 4.3 Indication of any immediate medical attention and special treatment needed

After SKIN CONTACT rinse with water for a long time. Apply glucocorticosteroides following inflammatory reactions. Inform patient respectively further measures and the possibility of long-term damages. ---

## 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. Spray any vapours released with water. Retent fire water. Use only acid-resistant safety equipment.

For great amount - if necessary - protective breathing apparatus which is independent of the ambient air (isolated equipment), and sealed protective clothing is necessary in the event of a large-scale formation of toxic substances.

### 5.4 Additional information

Danger for environment **only in the event of a large-scale leakage** or formation of hazardous substances. ---

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Wear suitable protective gloves (see 8.2.2). Wear eye protection. Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed.

### 6.2 Environmental precautions

not necessary

### 6.3 Methods and material for containment and cleaning up

Bind any escaping liquid with inert absorbent. And dispose in accordance to local regulations for the disposal of hazardous chemicals. Clean any contaminated equipment and floors with plenty of water. Collect small amounts of leaked liquid and flush with water into drains.

### 6.4 Reference to other sections

see information in section 5.4 ---

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product. Use only in well-ventilated working areas. 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): 5.1B

Water hazard class (DE): 1

#### 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

#### 35 mg NANOFIX total Phosphate 1 (R0)

Chemical: sodium peroxodisulfate

CAS No.: 7775-27-1

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

#### 2 g total Phosphate (B1)

Chemical: sodium L(+)-ascorbate

CAS No.: 134-03-2

#### 5 mL total Phosphate (B2)

Chemical: water

CAS No.: 7732-18-5

#### 6 mL total Phosphate (C)

Chemical: ammonium heptamolybdate

CAS No.: 12054-85-2

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): 2.5 µg/L

PNEC = Predicted No Effect Concentration

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

E/e respirable

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: 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/m<sup>3</sup>

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

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

## 50 mL total Phosphate 1 Reagent A

Chemical: *sulfuric acid*

CAS No.: 7664-93-9

DNEL: [inh] 50 µg/m<sup>3</sup>

DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 2.5 µg/L

PNEC = Predicted No Effect Concentration

EU value: 0.1 e mg/m<sup>3</sup>

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

E/e respirable

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

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/m<sup>3</sup>

[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>

## 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

Use for open access of these substances for example a protection filter, class A/AX. 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

Recommended to avoid contamination with these hazards.

### 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

#### 35 mg NANOFIX total Phosphate 1 (R0)

Appearance: solid (lyoph.)

Colour: colourless

Odor: odorless

pH:

5-7

Solubility in water:

0-100 %

#### 2 g total Phosphate (B1)

Appearance: powder (solid)

Colour: white

Odor: odorless

pH:

[10%] 6-7.5

Solubility in water:

0-38 %

#### 5 mL total Phosphate (B2)

Appearance: liquid

Colour: colourless

Odor: odorless

#### 6 mL total Phosphate (C)

Appearance: liquid

Colour: slightly yellow

Odor: odorless

pH:

0

Specific gravity:

1,11 g/cm<sup>3</sup>

Solubility in water:

0-100 %

#### 50 mL total Phosphate 1 Reagent A

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Appearance: liquid

Colour: colourless

Odor: odorless

pH:

0-1

Specific gravity:

1,05 g/cm<sup>3</sup>

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

Not necessary. 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.

#### 35 mg NANOFIX total Phosphate 1 (R0)

Chemical: *sodium peroxodisulfate*

CAS No.: 7775-27-1

TSCA Inventory: listed

California Proposition 65 List: not listed

Australia NICNAS: Yes (PEC/18)

Canada CEPA 1999: DSL Yes

Japan CSCL/PRTR:

not listed, Japan PDSCL: not listed

Japan ISHL:

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

South Korea TCCA:

not listed

Korea Exist.Chem.Inventory: KE-12369

LD50<sub>orl rat</sub>: 902 mg/kg

Acute Effects: Cause after oral intake, inhalation of vapours/dust, skin contact, impairments of health when ingested in small quantities.

Chronic Effects: May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### 2 g total Phosphate (B1)

Chemical: *sodium L(+)-ascorbate*

CAS No.: 134-03-2

TSCA Inventory: listed

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

#### 5 mL total Phosphate (B2)

Chemical: *water*

CAS No.: 7732-18-5

TSCA Inventory: listed

Korea Exist.Chem.Inventory: KE-35400



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## 6 mL total Phosphate (C)

Chemical: *ammonium heptamolybdate* CAS No.: 12054-85-2  
TSCA Inventory: listed (CAS 11098-84-3)  
Japan ISHL: listed  $\geq 1,0\%$ / $\geq 0,1\%$ ,  
Korea Exist.Chem.Inventory: not listed

Chemical: *sulfuric acid* CAS No.: 7664-93-9d  
TSCA Inventory: listed California Proposition 65 List: not listed  
ACGIH: 1 ppm  
Exposure Routes: inhalation, ingestion, skin and/or eye contact  
Target Organs: Eyes, skin, respiratory system, teeth  
Symptoms: irritation eyes, skin, nose  
Australia NICNAS: not listed Canada CEPA 1999: DSL Yes  
Japan CSCL/PRTR: not listed, Japan PDSCL: Deleterious Substance  
Japan ISHL: listed  $\geq 1,0\%$ / $\geq 1,0\%$ , Article 57-2 (SDS required)  
South Korea TCCA: Accident Precaution Chemical Yes  
Korea Exist.Chem.Inventory: KE-32570  
LD50<sub>orl rat</sub>: 2140 mg/kg  
LC50<sub>ihl rat</sub>: [8h] 600/ [4h] 850 mg/m<sup>3</sup>  
TRGS 905 (DE): R<sub>F</sub> C

## 50 mL total Phosphate 1 Reagent A

Chemical: *sulfuric acid* CAS No.: 7664-93-9  
TSCA Inventory: listed California Proposition 65 List: not listed  
ACGIH: 1 ppm  
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  $\geq 1,0\%$ / $\geq 1,0\%$ , 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  
LC50<sub>ihl rat</sub>: [8h] 600/ [4h] 850 mg/m<sup>3</sup>  
TRGS 905 (DE): Kat 4

## SECTION 12: Ecological information

### 12.1 Toxicity

Following information is valid for pure substances.

#### 35 mg NANOFIX total Phosphate 1 (R0)

Chemical: *sodium peroxodisulfate* CAS No.: 7775-27-1  
Water hazard class (DE): 1 WGK No.: 1352  
Storage class (VCI): 5.1 B

#### 2 g total Phosphate (B1)

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

#### 5 mL total Phosphate (B2)

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

#### 6 mL total Phosphate (C)

Chemical: *ammonium heptamolybdate* CAS No.: 12054-85-2  
Water hazard class (DE): 1 WGK No.: 0637  
Storage class (VCI): 12-13

Chemical: *sulfuric acid* CAS No.: 7664-93-9d  
PNEC<sub>(fresh water)</sub>: 2.5 µg/L  
PNEC = Predicted No Effect Concentration  
LC50<sub>fish/96h</sub>: [NOEC, 65d] 25 µg/L

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EC50<sub>daphnia/48h</sub> : 100 mg/L  
 EC10<sub>pseudomonas putita/16h</sub> : [72h] 100 mg/L  
 Water hazard class (DE): 1 WGK No.: 0182  
 Storage class (VCI): 8 B

## 50 mL total Phosphate 1 Reagent A

Chemical: *sulfuric acid*

CAS No.: 7664-93-9

PNEC(fresh water) : 2.5 µg/L

PNEC = Predicted No Effect Concentration

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

EC50<sub>daphnia/48h</sub> : 100 mg/L

EC10<sub>pseudomonas putita/16h</sub> : [72h] 100 mg/L

Water hazard class (DE): 1 WGK No.: 0182

Storage class (VCI): 8 B

## 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

## SECTION 14: Transport information

14.1 - 14.4: No dangerous goods according the transport regulations because

De Minimis (excepted quantities: ≤1 mL/Σ≤100 mL) = ADR 3.5.1.4

De Minimis (excepted quantities: ≤1 mL/Σ≤100 mL) = IATA DRG 2.6.10

## 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](http://www.mn-net.com)

Look for your country-specific regulations.

# Safety Data Sheet

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

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## 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

H272	May intensify fire; oxidizer.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

#### 16.1.2 List of relevant P phrases

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P261sh	Avoid breathing dust/vapours.
P264W	Wash with water thoroughly after handling.
P280sh	Wear protective gloves/eye protection.
P301+312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P330	Rinse mouth.
P342+311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P403+233	Store in a well-ventilated place. Keep container tightly closed.

### 16.2 Training advice

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.

### 16.3 Recommended restriction on use

Only for professional user.

Look about employee restrictions for young people (f. ex. 94/33/EC or DE § 22 JArbSchG)!

Look about employee restrictions for pregnant women and nursing women (f.ex. 92/85/EEC or for DE §§ 11-13 MuSchG 2017)!

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

### 16.4 Further information

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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, 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

TRGS 907, German engineering rules governing listing of substances and causes of sensitizations, updated November 2011

KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

#### Revisions/Updates

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