# MACHEREY-NAGEI



## Safety Data Sheet

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

REF: 985080	NANOCOLOR ortho and total Phosphate 15	Page: 1/11
Printing date: 01.10.2019	Date of issue: 26.07.2019	

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

1.1	Product identifier
	REF

Product name

985080 NANOCOLOR ortho and total Phosphate 15

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 20x 27 mg NANOFIX total Phosphate 1-45 (R3) 1 x 20x 35 mg NANOFIX total Phosphate 1-50 (R2) 1 x 5 mL total Phosphate 1-45 (R4) 20 x 5 mL total Phosphate 5/15 (R0)

#### 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. 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



Signal word	DANGER
Hazard identification	Hazard classes/categories
H272 H302 H315 H317 H319 H334 H335	Ox. Sol. 2 Acute Tox. 4 oral Skin Irrit. 2 Skin Sens. 1 Eye Irrit. 2 Resp. Sens. 1 STOT SE 3
	0.0.020

#### 2.1 Classification of the substance or mixture

20x 27 mg NANOFIX total Phosphate 1-45 (R3)

Do not need labelling as hazardous



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# CHEREY-NAGE



## Safety Data Sheet

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

REF: 985080 Printing date: 01.10.2019 NANOCOLOR ortho and total Phosphate 15 Date of issue: 26.07.2019

Page: 2/11

Signal word

No hazard class

20x 35 mg NANOFIX total Phosphate 1-50 (R2)

	GHS03	GHS07	GHS08
Signal word	DANGER		
Hazard identification	Hazard cl	asses/cate	egories
H272	Ox. Sol. 2		
H302	Acute Tox	. 4 oral	
H315	Skin Irrit. 2	2	
H317	Skin Sens	. 1	
H319			
1010	Eye Irrit. 2		
H334	Eye Irrit. 2 Resp. Ser		

### 5 mL total Phosphate 1-45 (R4)

	GHS07
Signal word	WARNING
Hazard identification	Hazard classes/categories
H315	Skin Irrit. 2
H319	Eye Irrit. 2

### 5 mL total Phosphate 5/15 (R0)

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). This labelling exemption is NOT valid for sensibilizing substances. Oxidizing mixtures with signal word: DANGER and H272 must not be labelled with H and P phrases until 125 mL.

### 20x 27 mg NANOFIX total Phosphate 1-45 (R3)

Do not need labelling as hazardous Signal word: -

### 20x 35 mg NANOFIX total Phosphate 1-50 (R2)





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

REF: 985080	NANOCOLOR ortho and total Phosphate 15	Page: 3/11
Printing date: 01.10.2019	Date of issue: 26.07.2019	

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.

### 5 mL total Phosphate 1-45 (R4)



Signal word: WARNING

### 5 mL total Phosphate 5/15 (R0)

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

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

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances or 3.2 Mixtures

### 20x 27 mg NANOFIX total Phosphate 1-45 (R3)

Chemical: L(+)-as	scorbic acid		CAS No.: 50-81-7
Classification:	No criteria for classification or naming of cher	mical not required.	
Formula:	C <sub>6</sub> H <sub>8</sub> O <sub>6</sub>		
Pseudonym:	vitamin C		
TSCA Inventory:	listed		
REACH Reg. No.:	exempt, Annex IV		
EC No.:	200-066-2		
RTECS:	CI7650000	MFCD:	00064328
KE No.:	KE-01947		
Concentration:	90 - <100 %		
acc. CLP (GHS):	The criteria for classification are not fulfilled.		

20x 35 mg NANOFIX total Phosphate 1-50 (R2)



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

REF: 985080		NANOCOLOR ortho a	nd total Phosphat	e 15 Page: 4/1
Printing date: 01.10.2019	9	Date of issue: 26.07.2	019	
(   	Chemical: sodium Classification: H334, Resp. Sens. 1 Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS): H334, Resp. Sens. 1	, H335, STOT SE 3 Na <sub>2</sub> O <sub>8</sub> S <sub>2</sub> sodium persulfate listed 01-2119495975-15-xxxx 231-892-1 SE0525000 KE-12369 80 - <100 % H272, Ox. Liq. 2, H302, Acute Tox.		CAS No.: 7775-27-1 h Irrit. 2, H317, Skin Sens. 1, H319, Eye Irrit. 2 h Irrit. 2, H317, Skin Sens. 1, H319, Eye Irrit. 2
5 mL tota	I Phosphate 1-45 (I	R4)		
( ( F 7 7 7	Chemical: ammo Classification: Formula: Pseudonym: TSCA Inventory: REACH Reg. No.:	nium heptamolybdate No criteria for classification or naming of cher H <sub>24</sub> Mo <sub>7</sub> N <sub>6</sub> O <sub>24</sub> hexaammonium heptamolybdate listed (CAS 11098-84-3) 01-2119498057-28-xxxx	mical not required.	CAS No.: 12054-85-2
F	EC No.: RTECS:	234-722-4 QA5076000 / QA4900000	MFCD:	00167059
C	KE No.: Concentration: The classification refers to	not listed 2 - <5 % weight percent of the metal (according to CLP	Correlation facto Regulation 2008/1272	or: x 0.58 (= %Mo) 2/EC Annex VI, 1.1.3.2 Note 1)
a	acc. CLP (GHS):	The criteria for classification are not fulfilled.		
C F T F F F C	Chemical: <i>sulfuri</i> Classification: Formula: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	c acid (diluted < 5 %) H315, Skin Irrit. 2, H319, Eye Irrit. 2 H <sub>2</sub> SO <sub>4</sub> +H <sub>2</sub> O listed 01-2119458838-20-xxxx 231-639-5 WS5600000 KE-32570 5 - <15 % H315, Skin Irrit. 2, H319, Eye Irrit. 2	Indice No.:	CAS No.: 7664-93-9d 016-020-00-8
	I Phosphate 5/15 (F Chemical: sulfurio	<b>R0)</b> c acid (diluted < 5 %)		CAS No.: 7664-93-9d
C F T F F F C	Classification: Formula: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	H315, Skin Irrit. 2, H319, Eye Irrit. 2 H2 SO4 $^{+H_2}$ O listed 01-2119458838-20-xxxx 231-639-5 WS5600000 KE-32570 1 - <5 % The criteria for classification are not fulfilled.	Indice No.:	016-020-00-8
.3 Remarks				
	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.

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

REF: 985080	NANOCOLOR ortho and total Phosphate 15	Page: 5/11
Printing date: 01.10.2019	Date of issue: 26.07.2019	

#### 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).

#### After INHALATION of vapours 4.1.3

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. ---

### 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

#### 721 Requirements for stock rooms and containers



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

REF: 98 Printing	85080 ) date: 01.10.2019	NANOCOLOR ortho ar Date of issue: 26.07.20	•	Page: 6/1
7.3		ckages tightly closed during handling and s	torage.	
	<b>Specific end use(s)</b> Product for analytical use.			
SECT	ION 8: Exposure co	ntrols/personal protection		
3.1	Control parameters			
	<b>20x 27 mg NANOFIX to</b> Chemical: <i>L(+)-ascor</i>	tal Phosphate 1-45 (R3) bic acid	CAS No.: 50-81-7	
		tal Phosphate 1-50 (R2) roxodisulfate	CAS No.: 7775-27-1	
	NIOSH:	not listed average to a reference period of 8 hours, [STEL] Sho	rt-term exposure limit related to a 15-minute period	
	OSHA:	not listed		
	5 mL total Phosphate 1 Chemical: ammoniur	-45 (R4) n heptamolybdate	CAS No.: 12054-85-2	
	TRGS 900 (DE):	[Mo] 5 E mg/m <sup>3</sup> E/e respirable	0/10/10/10/00/2	
	SUVA(CH) MAK value:	[Mo] 5 e mg/m <sup>3</sup>		
	Chemical: sulfuric ac DNEL: DNEL Derived No.5	id 50 μg/m³ iffect Level (for workers)	CAS No.: 7664-93-9d	
	PNEC <sub>(fresh water)</sub> :	2.5 μg/L Effected Concentration		
	TRGS 900 (DE):	0.1 E mg/m <sup>3</sup> E/e respirable		
	Short-term exposure fac skin resorptive (H), r	tor: 1 (I)	atogenic (Z) not securely excluded / (Y) certainly excluded	
	SUVA(CH) MAK value: NIOSH: ITWAI Time-weighted	0,1 e mg/m <sup>3</sup> NTP Report on Carcinogens (RoC) Lis		
	OSHA:	[TWA] 1 mg/m <sup>3</sup>		
	5 mL total Phosphate 5			
	Chemical: <i>sulfuric ac</i> DNEL: DNEL = Derived No-B	iα 50 μg/m³ :ffect Level (for workers)	CAS No.: 7664-93-9d	
	PNEC(fresh water) : PNEC = Predicted No	2.5 µg/L Effected Concentration		
	TRGS 900 (DE):	0.1 E mg/m <sup>3</sup> E/e respirable		
	Short-term exposure fac skin resorptive (H), r		atogenic (Z) not securely excluded / (Y) certainly excluded	
	SUVA(CH) MAK value: NIOSH: [TWA] Time-weighted	0,1 e mg/m <sup>3</sup> NTP Report on Carcinogens (RoC) Lis average to a reference period of 8 hours, [STEL] Sho	st Yes (Known to be a human carcinogen); TWA 1 rt-term exposure limit related to a 15-minute period	l mg/m³
	OSHA:	[TWA] 1 mg/m <sup>3</sup>		
3.2	Exposure controls			
	Good ventilation and extraction level of cleanliness must be r		micals with floor drainage and washing facilities.	The highest
3.2.1	<b>Respiratory protection</b> Use for open access of t	hese substances for example a protection fi	Iter, 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



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

REF: 985080	NANOCOLOR ortho and total Phosphate 15	Page: 7/11
Printing date: 01.10.2019	Date of issue: 26.07.2019	

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

20x 27 mg NANOFIX total Phosphate 1-45 (R3)           Appearance: solid (lyoph.)         Colour: white			Odor: odorless
	pH: Solubility in water:	5-6 0-25 %	
	20x 35 mg NANOFIX total Phosph	ate 1-50 (R2)	
	Appearance: solid (lyoph.) pH:	Colour: colourless 5-7	Odor: odorless
	Solubility in water:	0-100 %	
	5 mL total Phosphate 1-45 (R4)		
	Appearance: liquid pH:	Colour: slightly yellow 0	Odor: odorless
	Specific gravity: Solubility in water:	1,11 g/cm³ 0-100 %	
	Solubility in water.	0-100 /0	
	5 mL total Phosphate 5/15 (R0) Appearance: liquid	Colour: colourless	Odor: odorless
	pH:	0-1 1.01 g/gm <sup>3</sup>	
	Specific gravity: Solubility in water:	1,01 g/cm³ 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.



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

Printing	85080 g date: 01.10.2019		NANOCOLOR ortho and total Phosphate 15 Date of issue: 26.07.2019	Page: 8/1	
SECT	ION 11: Toxicologic	al informatio	n		
	-				
11.1	Information on toxicological effects Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.				
	20x 27 mg NANOFIX total Phosphate 1-45 (R3)				
	Chemical: L( TSCA Inventory: Korea Exist.Chem.Inver LD50 <sub>orl rat</sub> : LD50 <sub>ivn mus</sub> :	+)-ascorbic acid listed tory: KE-01947 11900 mg/kg 518 mg/kg	CAS No.: 50-81	-7	
	20x 35 mg NANOFIX 1	otal Phosphate	1-50 (R2)		
	-	dium peroxodisulfate		-27-1	
	TSCA Inventory:	listed	California Proposition 65 List: not listed		
	Australia NICNAS: Japan CSCL/PRTR:	Yes (PEC/18)	Canada CEPA 1999: DSL Yes n PDSCL: not listed		
	Japan ISHL:		),1%, Article 57-2 (SDS required)		
	South Korea TCCA:	not listed			
	Korea Exist.Chem.Inver LD50 <sub>orl rat</sub> :	902 mg/kg			
			tion of vapours/dust, skin contact, impairments of health whe	en ingested in small	
			skin contact, also in repeated contact of small amounts. May	cause allergy or asthma	
	5 mL total Phosphate	1-45 (R4)			
	Chemical: ar TSCA Inventory: Japan ISHL: Korea Exist.Chem.Inver	nmonium heptamolyb listed (CAS 110 listed ≥1,0%/≥0 itory: not listed	098-84-3)	4-85-2	
		lfuric acid	CAS No.: 7664	-93-9d	
	Chemical: su TSCA Inventory: ACGIH:	<i>lfuric acid</i> listed 1 ppm	CAS No.: 7664 California Proposition 65 List: not listed	-93-9d	
	TSCA Inventory: ACGIH: Exposure Routes:	listed 1 ppm inhalation, inge	California Proposition 65 List: not listed stion, skin and/or eye contact	-93-9d	
	TSCA Inventory: ACGIH: Exposure Routes: Target Organs:	listed 1 ppm inhalation, inge Eyes, skin, resp	California Proposition 65 List: not listed stion, skin and/or eye contact piratory system, teeth	-93-9d	
	TSCA Inventory: ACGIH: Exposure Routes:	listed 1 ppm inhalation, inge	California Proposition 65 List: not listed stion, skin and/or eye contact piratory system, teeth	-93-9d	
	TSCA Inventory: ACGIH: Exposure Routes: Target Organs: Symptoms: Australia NICNAS: Japan CSCL/PRTR:	listed 1 ppm inhalation, inge Eyes, skin, resp irritation eyes, s not listed not listed, Japa	California Proposition 65 List: not listed stion, skin and/or eye contact piratory system, teeth skin, nose Canada CEPA 1999: DSL Yes n PDSCL: Deleterious Substance	-93-9d	
	TSCA Inventory: ACGIH: Exposure Routes: Target Organs: Symptoms: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL:	listed 1 ppm inhalation, inge Eyes, skin, resp irritation eyes, s not listed not listed, Japa listed ≥1,0%/≥1	California Proposition 65 List: not listed stion, skin and/or eye contact piratory system, teeth skin, nose Canada CEPA 1999: DSL Yes n PDSCL: Deleterious Substance ,0%, Article 57-2 (SDS required)	-93-9d	
	TSCA Inventory: ACGIH: Exposure Routes: Target Organs: Symptoms: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inver	listed 1 ppm inhalation, inge Eyes, skin, resp irritation eyes, s not listed not listed, Japa listed ≥1,0%/≥1 Accident Preca tory: KE-32570	California Proposition 65 List: not listed stion, skin and/or eye contact piratory system, teeth skin, nose Canada CEPA 1999: DSL Yes n PDSCL: Deleterious Substance	-93-9d	
	TSCA Inventory: ACGIH: Exposure Routes: Target Organs: Symptoms: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inver LD50 <sub>orl rat</sub> :	listed 1 ppm inhalation, inge Eyes, skin, resp irritation eyes, s not listed not listed, Japa listed ≥1,0%/≥1 Accident Preca tory: KE-32570 2140 mg/kg	California Proposition 65 List: not listed stion, skin and/or eye contact piratory system, teeth skin, nose Canada CEPA 1999: DSL Yes n PDSCL: Deleterious Substance ,0%, Article 57-2 (SDS required) ution Chemical Yes	-93-9d	
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REF: 985080 Printing date: 01.10.2019		NANOCOLOR ortho and total Phosphate 15 Date of issue: 26.07.2019		Page: 9/11
SECT	ION 12: Ecological informatio	n		
12.1	Toxicity Following information is valid for pure sul	bstances.		
	<b>20x 27 mg NANOFIX total Phosphate</b> Chemical: <i>L(+)-ascorbic</i> Water hazard class (DE): Storage class (VCI):		CAS No.: 50-81-7	
	20x 35 mg NANOFIX total Phosphate Chemical: sodium perox Water hazard class (DE): Storage class (VCI):		CAS No.: 7775-27-1	
	5 mL total Phosphate 1-45 (R4) Chemical: ammonium he Water hazard class (DE): Storage class (VCI):	eptamolybdate 1 WGK No.: 0637 12-13	CAS No.: 12054-85-2	
	Chemical: sulfuric acid PNEC(fresh water) : PNEC = Predicted No Effected Concentratio	2.5 μg/L	CAS No.: 7664-93-9d	
	LC50 <sub>fish/96h</sub> : EC50 <sub>daphnia/48h</sub> : EC10 <sub>pseudomonas putita/16h</sub> : Water hazard class (DE): Storage class (VCI):	[NOEC, 65d] 25 μg/L 100 mg/L [72h] 100 mg/L 1 WGK No.: 0182 8 Β		
	5 mL total Phosphate 5/15 (R0) Chemical: sulfuric acid PNEC(fresh water) : PNEC = Predicted No Effected Concentratio	2.5 μg/L	CAS No.: 7664-93-9d	
	LC50 <sub>fish/96</sub> h : EC50 <sub>daphnia/48</sub> h : EC10 <sub>pseudomonas</sub> putita/16h : Water hazard class (DE): Storage class (VCI):	[NOEC, 65d] 25 μg/L 100 mg/L [72h] 100 mg/L 1 WGK No.: 0182 8 Β		
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 assessing no data available	ment		
12.6	Other adverse effects no additional data available			
SECT	ION 13: Disposal consideration	ons		

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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REF: 985080NANOCOLOR ortho and total Phosphate 15Page: 10/11Printing date: 01.10.2019Date of issue: 26.07.2019

### **SECTION 14: Transport information**

 14.1 - 14.4: No dangerous goods according the transport regulations because De Minimis (excepted quantities: ≤1 mL/∑≤100 mL) = ADR 3.5.1.4 De Minimis (excepted quantities: ≤1 mL/∑≤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 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				
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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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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REF: 985080	NANOCOLOR ortho and total Phosphate 15	Page: 11/11
Printing date: 01.10.2019	Date of issue: 26.07.2019	

product to which the information refers. Accordingly MACHEREY-NAGEL GmbH & Co. KG will not be responsible for damages resulting from use of or reliance upon this information. See terms and conditions at the end of our price lists for additional information.

#### 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 467/2013/E0, 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 TRGS 900, German engineering rules governing limits in air at work, updated 03/2018 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

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