

according to Directive 1907/2006/EC (REACh) and 453/2010/EU

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### 1 Identification of the Substance/Mixture and of the Company

#### 1.1 Identification/Product Name

REF Product name 985081 NANOCOLOR total Phosphate 5

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

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

E-mail: msds@mn-net.com

- 1 x 6 mL total Phosphate 1-45 R4
- 20 x 5 mL total Phosphate 5/15 (tubes)

#### 1.2 Use of the Substance/Mixture

Product for analytical use.

Exposure Scenario Classification according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0

#### 1.3 Manufacturer

MACHEREY-NAGEL GmbH & Co. KG Neumann-Neander-Str. 6-8, 52355 Dueren, GERMANY Tel.: +49 2421 969 0

#### 1.4 Emergency Telephone

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

#### 2 Hazard Identification

R

#### 2.1 Hazard Symbols of Product

Directive 1999/45/EC Symbols



GHS Directive 1272/2008/EC

GHS Symbols



Signalword	DANGER
Hazard identification	Hazard classes/categories
H317	Skin Sens. 1A/1B
H334	Resp. Sens. 1A/1B

#### 2.2 **Hazard Description**

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 inhalation of vapours, 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

### Other Hazards



Version: 0.7

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## **Material Safety Data Sheet**

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2.3	Hazard description of the c	omponents		
	20x 27 mg NANOFIX total Phosphate 1-45 R3			
	Directive 1999/45/EC			
	Symbols	- do not need labelling as hazardous		
	GHS Directive 1272/2008/E	-		
	GHS Symbols Signalword	do not need labelling as hazardous do not need labelling as hazardous		
	No hazard class			
	20x 35 mg NANOFIX total Pho	sphate 1-50 R2		
	Directive 1999/45/EC			
	Symbols	R 42/43		
		Xn		
	GHS Directive 1272/2008/E	EC		
	GHS Symbols			
	,			
		GHS03 GHS07 GHS08		
	Signalword	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. 1A/1B Eye Irrit. 2 Resp. Sens. 1A/1B STOT SE 3		
	6 mL total Phosphate 1-45 R4			
	Directive 1999/45/EC			
	Symbols	- do not need labelling as hazardous		
	GHS Directive 1272/2008/E	EC		
	GHS Symbols	•		
		GHS07		
	Signalword	WARNING		
	Hazard identification	Hazard classes/categories		
	H315 H319	Skin Irrit. 2 Eye Irrit. 2		
	5 mL total Phosphate 5/15 (tul			
	Directive 1999/45/EC			
	Symbols	- do not need labelling as hazardous		
	Cymbolo			



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	GHS Directive 1272/2	008/EC		
	GHS Symbols Signalword	do not need labelling as h do not need labelling as h		
	No hazard class			
	Composition/Informati	on on Ingredients		
.1	Hazardous Component	U		
	20x 27 mg NANOFIX tota			
		)-ascorbic acid 90 - 100 % C <sub>6</sub> H <sub>8</sub> O <sub>6</sub> amin C		CAS No.: 50-81-7
	EC No.: RTECS:	200-066-2 C17650000	MFCD:	00064328
	TSCA listed: acc. 1999/45/EC:	listed -	acc. CLP (GHS):	not necessary
	Concentration: Formula:	lium peroxodisulphate 20 - 100 % Na <sub>2</sub> O <sub>8</sub> S <sub>2</sub>		CAS No.: 7775-27-1
	Pseudonym: so EC No.: RTECS: TSCA listed: acc. 1999/45/EC: H335	231-892-1 SE0525000 listed	acc. CLP (GHS):	H272, H302, H315, H317, H319, H334
	6 mL total Phosphate 1-4	5 R4		
	Concentration: Formula: Pseudonym: an	monium heptamolybdate 1 - 5 % $H_{24}$ Mo <sub>7</sub> N <sub>6</sub> O <sub>24</sub> monium molybdate 224 722 4		CAS No.: 12054-85-2
	EC No.: RTECS: TSCA listed:	234-722-4 QA5076000 / QA4900000 listed	MFCD:	MFCD00167059
	acc. 1999/45/EC:		acc. CLP (GHS):	not necessary
	Concentration: Formula:	bhuric acid 5 - 15 % H2 SO4		CAS No.: 7664-93-9
	REACH Reg. No. EC No.: RTECS: TSCA listed:	231-639-5 WS5600000	Indice No.:	016-020-00-8
	acc. 1999/45/EC:	listed R 36/38	acc. CLP (GHS):	H315, H319
	<b>5 mL total Phosphate 5/1</b> Chemical: <i>sul</i> Concentration: Formula:	<b>5 (tubes)</b> ohuric acid 1 - 5 % H₂ SO₄		CAS No.: 7664-93-9
	REACH Reg. No. EC No.: RTECS: TSCA listed:		Indice No.:	016-020-00-8
	acc. 1999/45/EC:		acc. CLP (GHS):	not necessary

### 3.2 Remarks

List of R and H phrases: see chapter 16

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4	First Aid Measures		
4.1	General Information		
		zone to fresh air immediately. Ensure quiet, warmth, and provide ake to a doctor, in a raised position if there are breathing difficulti	
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.

#### After EYE Contact 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).

#### 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 Further Medical Treatment/Attention

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.

### 5 Fire-fighting Measures

### 5.1 Suitable 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 Hazards, Combustion Products/Gases

Formation of hazardous and caustic vapour-air mixtures possible. Danger for environment only in the event of a large-scale leakage or formation of hazardous substances.

### 5.3 Special Protective Equipment required

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**

Product package burns like paper or plastic. Spray any vapours released with water. Retent fire water. Use only acid-resistant safety equipment.

### Accidental Release Measures 6

### 6.1 Personal Precautions

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 Methods of Cleaning-up

Bind any escaping liquid with universal binder. 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.

### 7 Handling and Storage

### 7.1 Handling

In accordance with the testing instructions, that comes with the product. Use only in well-ventilated working areas. Use a safety bottle when shaking test tubes.

#### 7.2 Storage

The original product package of MACHEREY-NAGEL allows a safe storage. Storage class (German chemical industry): see chapter 12.1

#### 7.2.1 **Requirements for Stock Rooms and Containers**

Keep original product packages tightly closed during handling and storage.



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8	Exposure Controls/Per	rsonal Protection	
8.1	Exposure Limit Values		
	<b>20x 27 mg NANOFIX tota</b> Chemical: <i>L(+)-ascorbi</i>	•	CAS No.: 50-81-7
	20x 35 mg NANOFIX tota Chemical: sodium pero	I Phosphate 1-50 R2 xodisulphate	CAS No.: 7775-27-1
	6 mL total Phosphate 1-4 Chemical: ammonium I TRGS 900 (DE): SUVA(CH) MAK value:	heptamolybdate 5 <sub>Mo</sub> E mg/m³	CAS No.: 12054-85-2
	Chemical: sulphuric ac. TRGS 900 (DE): TRGS 901 (DE): SUVA(CH) MAK value: TRGS 905 (DE):	id 0.1 E mg/m³ 104 0,1 e mg/m³ R <sub>F</sub> C	CAS No.: 7664-93-9
	5 mL total Phosphate 5/1 Chemical: sulphuric ac. TRGS 900 (DE): TRGS 901 (DE): SUVA(CH) MAK value: TRGS 905 (DE):	· · ·	CAS No.: 7664-93-9
8.2	Exposure Controls Good ventilation and extraction level of cleanliness must be ma		emicals with floor drainage and washing facilities. The highest
8.2.1	<b>Respiratory Protection</b>	ndations in test instruction or packing ins	sert. Use for open access of these substances for example a
8.2.2	Hand Protection Yes, gloves according EN	374. Use for short times all chemical resi	stent gloves (limited).
8.2.3	Eye Protection Yes, safety glasses accord	ing EN 166.	
8.2.4	Skin Protection Recommended, to avoid co	ontamination with these hazards.	
8.2.5	with the skin, eyes and clo	thing. Rinse any clothing on which the su	areas and at outdoor workplaces is prohibited. Avoid contact ibstance has been spilled, and soak it in water. Wash hands ing, and then apply protective skin cream.
9	Physical and Chemica	I Properties	
9.1	General Information		
	20x 27 mg NANOFIX tota	Phosphate 1-45 R3	

20x 27 mg NANOFIX total Phosphate 1-45 R3 Appearance: solid (lyoph.) Color: colourless Odor: odorless 20x 35 mg NANOFIX total Phosphate 1-50 R2 Color: colourless Odor: odorless Appearance: solid (lyoph.) 6 mL total Phosphate 1-45 R4 Color: slightly yellow Appearance: liquid Odor: odorless 5 mL total Phosphate 5/15 (tubes) Color: colourless Appearance: liquid Odor: odorless

### 9.2 Important Health, Safety and Environmental Information

### 9.2.1 Safety relevant Basis Data

20x 27 mg NANOFIX total Phosphate 1-45 R3

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	pH: specific gravi solubility in w			
		ANOFIX total Phosphate 1-50 R2 5-7		
	pH: specific gravi solubility in w	ity: no data available		
	pH:	nosphate 1-45 R4 0		
	specific gravi solubility in w			
	5 mL total Ph pH: specific gravi	nosphate 5/15 (tubes) 0-1 ity: 1,01 g/cm³		
	solubility in w			
9.2.2	Relevant Proper	ties of Substance Group		
9.3	Additional Inform	nation		
10	Stability and Rea	activity		
10.1	Conditions to av	oid		
10.2	Materials to avoi			
	Avoid contact with strong acides or alkalines.			
10.3			nd separated stored. Decompositions are not observ	ved during the expiration
11	Toxicological Inf	ormation		
	Following informatio	n is valid for pure chemicals. Q	antitative data on the toxicity of this product are not	available.
	20x 27 mg NANO	FIX total Phosphate 1-45	R3	
	Chemical: LD50 <sub>orl rat</sub> : LD50 <sub>ivn mus</sub> :	<i>L(+)-ascorbic acid</i> 11900 mg/kg 518 mg/kg	CAS No.: 50-8	1-7
	20x 35 mg NANO	FIX total Phosphate 1-50	R2	
	Chemical: LD50 <sub>orl rat</sub> :	sodium peroxodisulphate no data available	CAS No.: 7775	5-27-1
	6 mL total Phosp	ohate 1-45 R4		
	Chemical: LD50 <sub>orl rat</sub> :	<i>ammonium heptamolybdate</i> no data available	CAS No.: 1205	54-85-2
	Chemical: LD50 <sub>orl rat</sub> : LC50 <sub>ihl mouse</sub> : LC50 <sub>ihl rat</sub> :	sulphuric acid 2140 mg/kg 320 <sub>4h</sub> mg/L 510 mg/m³	CAS No.: 7664	1-93-9
	5 mL total Phosp	ohate 5/15 (tubes)		
	Chemical: LD50 <sub>orl rat</sub> : LC50 <sub>ihl mouse</sub> : LC50 <sub>ihl rat</sub> :	<i>sulphuric acid</i> 2140 mg/kg 320 <sub>4h</sub> mg/L 510 mg/m <sup>3</sup>	CAS No.: 7664	4-93-9



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12	Ecological Informat	ion			
12.1	Ecotoxicity				
	Following information is val	id for pure chemic	als.		
	20x 27 mg NANOFIX Chemical: WGK (DE): storage class (VC	L(+)-ascorbic a 1		CAS No.: 50-81-7	
	20x 35 mg NANOFIX Chemical: WGK (DE): storage class (VC	sodium peroxo 1		CAS No.: 7775-27-1	
	6 mL total Phosphate Chemical: WGK (DE): storage class (VC	<i>ammonium he</i> 1	eptamolybdate WGK No.: 0637	CAS No.: 12054-85-2	
	Chemical: LC50fish/96h : EC50daphnia/48h : WGK (DE): storage class (VC	<i>sulphuric acid</i> 16-29 mg/L 29 <sub>24h</sub> mg/L 1	WGK No.: 0182	CAS No.: 7664-93-9	
	5 mL total Phosphate Chemical: LC50 <sub>fish/96</sub> h : EC50 <sub>daphnia</sub> /48h : WGK (DE): storage class (VC	<b>5/15 (tubes)</b> sulphuric acid 16-29 mg/L 29 <sub>24h</sub> mg/L 1	WGK No.: 0182	CAS No.: 7664-93-9	

## **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). Normally it is possible to empty small amounts (diluted!) into drains. Dispose of contents/container to regulated waste treatment.

## 14 Transport Information

UN No.: (see below) Class 8 II, excepted quantities (≤30 mL/∑≤500 mL) = ADR/ IATA E2 or

## 15 Regulatory Information

### 15.1 International Regulations

According 1999/45/EC small amounts of harmful and highly flammable preparations/mixtures have partly/completely exemption from labelling (no symbols F, O, Xn, Xi, N and no R and S phrases are necessary) until **25-125 mL/g**. This labelling exemption is NOT valid for sensibilizing mixtures.

According **GHS** inner packages must be only labelled with symbol(s) and product identificator. Harmful chemicals/mixtures with signalword: **WARNING** and highly flammable chemicals/mixtures must not be labelled with H and P phrases **until 125 mL** or **125 g.** This labelling exemption is NOT valid for sensibilizing substances. Oxidizing mixtures with signalword: **DANGER** and **H272** must not be labelled with H and P phrases **until 125 mL**.

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

Directive 1999/45/EC Symbols:

-



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GHS Directive 1272/2008/EC GHS Symbols: do not need labelling as hazardous Signalword: -

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

Directive 1999/45/EC Symbols:



Xn R 42/43 May cause sensitization by inhalation and skin contact.

S 22-26-37 Do not breathe dust. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves.

GHS Directive 1272/2008/EC GHS Symbols:



Signalword: DANGER

H317, H334

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

P261S, P280sh, P302+352, P304+341, P333+313, P342+311, P363

Avoid breathing dust. Wear protective gloves/eye protection. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If skin irritation or rash occurs: Get medical advice/attention. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.

### 6 mL total Phosphate 1-45 R4

Directive 1999/45/EC

Symbols:

S 26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

GHS Directive 1272/2008/EC GHS Symbols:



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

Directive 1999/45/EC

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Symbols: --

GHS Directive 1272/2008/EC GHS Symbols: do not need labelling as hazardous Signalword: -

### 15.2 National Regulations

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on May 2008 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 December 2009

Announcement BekGS 220 (DE), Safety Data Sheet, September 2007 updated May 2009

## 16 Other Information

### 16.1 List of R and H phrases

16.1.1	List of relevant R phrases		
	R22	Harmful if swallowed.	
	R36/37/38	Irritating to eyes, respiratory system and skin.	
	R36/38	Irritating to eyes and skin.	
	R42/43	May cause sensitization by inhalation and skin contact.	
	R8	Contact with combustible material may cause fire.	

### 16.1.2 List of relevant H phrases

List of relevant H ph	Irases
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.

### 16.2 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. DE § 22 JArbSchG)! Look about employee restrictions for pregnant women and nursing women (f.ex. DE §§ 4 und 5 MuSchRiV)! 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

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS TRGS 900, German engineering rules governing limits in air at work, updated May 2010 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 October 2002 KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

You find our current versions of MSDS in Internet: http://www.mn-net.com/MSDS



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