

Safety Data Sheet

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

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

1.1 Product identifier

REF 985052
 Product name NANOCOLOR org. Complexing agents 10

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 org. Complexing Agents 10 (R2)
 20 x 1 mL org. Complexing Agents 10 (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

Information not necessary.

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

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2.1 Classification of the substance or mixture

20x 27 mg NANOFIX org. Complexing Agents 10 (R2)

Signal word Do not need labelling as hazardous
 -

No hazard class

1 mL org. Complexing Agents 10 (R0)

Signal word Do not need labelling as hazardous
 -

No hazard class

2.2 Label elements

20x 27 mg NANOFIX org. Complexing Agents 10 (R2)
 Do not need labelling as hazardous
 Signal word: -



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1 mL org. Complexing Agents 10 (R0)

Do not need labelling as hazardous
Signal word: -

2.3 Other hazards

Possible hazards from physicochemical properties

According to our current status of knowledge and experience we state, that this product does not contain any substances, which - in accordance with EC regulations 1272/2008/EC, 1907/2006/EC and German Regulations for Hazardous goods - have to be declared as dangerous goods, either because of their applied concentration or because of their total amount in anyone kit. An individual package has considerably less hazardous potential. ---

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

20x 27 mg NANOFIX org. Complexing Agents 10 (R2)

Chemical:	<i>L(+)-ascorbic acid</i>	CAS No.:	50-81-7
Classification:	No criteria for classification or naming of chemical not required.		
Formula:	C ₆ H ₈ O ₆		
Pseudonym:	vitamin C		
TSCA Inventory:	listed		
REACH Reg. No.:	exempt, Annex IV		
EC No.:	200-066-2		
RTECS:	C17650000	MFCD:	00064328
KE No.:	KE-01947		
Concentration:	90 - <100 %		
acc. CLP (GHS):	The criteria for classification are not fulfilled.		

1 mL org. Complexing Agents 10 (R0)

Chemical:	<i>bismuth(III) nitrate, basic</i>	CAS No.:	10361-46-3
Classification:	No criteria for classification or naming of chemical not required.		
Formula:	Bi ₅ H ₉ N ₄ O ₂₂		
Pseudonym:	(nitroxy)oxobismuthine, bismuth hydroxide nitrate oxide		
TSCA Inventory:	listed (CAS 1304-85-4)		
REACH Reg. No.:	None 2017		
EC No.:	215-136-8		
RTECS:	EB2984460		
Concentration:	< 0.10 %		
acc. CLP (GHS):	The criteria for classification are not fulfilled.		

Chemical:	<i>xylene orange tetrasodium salt (pH indicator)</i>	CAS No.:	3618-43-7
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Classification:	No criteria for classification or naming of chemical not required.		
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Formula:	C ₃₁ H ₂₈ N ₂ Na ₄ O ₁₃ S		
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Pseudonym:			
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N,N'-[(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis[(6-hydroxy-5-methyl-3,1-phenylene)methylene]]bis[N-(carboxymethyl)-glycine] tetrasodium salt

TSCA Inventory:	listed		
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EC No.:	222-805-8	MFCD:	0044293
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Concentration:	< 1.00 %		
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acc. CLP (GHS):	The criteria for classification are not fulfilled.		
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Chemical:	<i>sulfuric acid</i> (diluted < 5 %)	CAS No.:	7664-93-9d
Classification:	H315, Skin Irrit. 2, H319, Eye Irrit. 2		
Formula:	H ₂ SO ₄ • H ₂ 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:	1 - <5 %		
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%.

SECTION 4: First aid measures

4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately.

4.1.1 After SKIN Contact

Not necessary.

4.1.2 After EYE Contact

Not necessary.

4.1.3 After INHALATION of vapours

Not necessary. ---

4.1.4 After ORAL Intake

Not necessary. ---

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

None.

5.3 Advice for firefighters

No, for listed product. Product package burns like paper or plastic.

5.4 Additional information

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Not necessary.

6.2 Environmental precautions

not necessary

6.3 Methods and material for containment and cleaning up

Clean working area with water. Flush used water into drains.

6.4 Reference to other sections

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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): 8B
Water hazard class (DE): 2

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

20x 27 mg NANOFIX org. Complexing Agents 10 (R2)

Chemical: *L(+)-ascorbic acid*

CAS No.: 50-81-7

1 mL org. Complexing Agents 10 (R0)

Chemical: *bismuth(III) nitrate, basic*

CAS No.: 10361-46-3

Chemical: *xlenol orange tetrasodium salt (pH indicator)*

CAS No.: 3618-43-7

Chemical: *sulfuric acid*

CAS No.: 7664-93-9d

DNEL: 50 µg/m³
DNEL = Derived No-Effect Level (for workers)

PNEC_(fresh water): 2.5 µg/L no hazard identified
PNEC = Predicted No Effect Concentration

TRGS 900 (DE): 0.1 E mg/m³
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/m³

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/m³

8.2 Exposure controls

Not necessary. Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities.

8.2.1 Respiratory protection

Not necessary.

8.2.2 Hand protection

Not necessary.

8.2.3 Eye protection

Not necessary.

8.2.4 Skin protection

Not necessary.

8.2.5 Personal hygiene

Information not necessary.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

20x 27 mg NANOFIX org. Complexing Agents 10 (R2)

Appearance: solid (lyoph.)	Colour: white	Odor: odorless
pH:	5-6	
Solubility in water:	0-25 %	

1 mL org. Complexing Agents 10 (R0)

Appearance: liquid	Colour: yellow	Odor: odorless
pH:	0-1	
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

None

10.2 Chemical stability

No known instability.

10.3 Possibility of hazardous reactions

None.

10.4 Conditions to avoid

Not known. Observe labeled storage temperature. ---

10.5 Incompatible materials

Not known.

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.

20x 27 mg NANOFIX org. Complexing Agents 10 (R2)

Chemical:	<i>L(+)-ascorbic acid</i>	CAS No.: 50-81-7
TSCA Inventory:	listed	
Korea Exist.Chem.Inventory:	KE-01947	
LD50 _{orl rat} :	11900 mg/kg	
LD50 _{ivn mus} :	518 mg/kg	

1 mL org. Complexing Agents 10 (R0)

Chemical:	<i>bismuth(III) nitrate, basic</i>	CAS No.: 10361-46-3
TSCA Inventory:	listed (CAS 1304-85-4)	
LC50 _{fish} :	>500 mg/L	

Chemical:	<i>xylenol orange tetrasodium salt (pH indicator)</i>	CAS No.: 3618-43-7
TSCA Inventory:	listed	

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SECTION 13: Disposal considerations

Not necessary.

13.1 Waste treatment methods

GENERAL: Empty solids into municipal waste, empty liquids diluted into drains.

SECTION 14: Transport information

14.1 - 14.4 Not necessary

14.5 Environmental hazards

none

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
 MN Leaflet/User manual, also see www.mn-net.com
 Look for your country-specific regulations.

15.2 Chemical safety assessment

SECTION 16: Other information

16.1 List of H and P phrases

16.1.1 List of relevant H phrases

16.1.2 List of relevant P phrases

16.2 Training advice

Regular safety training.

16.3 Recommended restriction on use

None

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, 4th adaptation of CLP regulation to technical and scientific progress
 Regulation 669/2018/EU, 4th 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