

# Safety Data Sheet

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

REF: 985015

NANOCOLOR Carbonate hardness 15

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Printing date: 15.11.2021

Date of issue: 26.07.2018

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

### 1.1 Product identifier

REF

985015

Product name

NANOCOLOR Carbonate hardness 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.

21 x 2.5 mL Carbonate hardness 15 (R0)

1 x 20x 5 mg NANOFIX Carbonate hardness 15 R2

### 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

Valenciennner Str. 11, 52355 Düren, GERMANY

Tel.: +49 2421 969 0

E-mail: [sds@mn-net.com](mailto:sds@mn-net.com) ([msds@mn-net.com](mailto: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

-

### 2.1 Classification of the substance or mixture

2.5 mL Carbonate hardness 15 (R0)

Signal word

Do not need labelling as hazardous

-

No hazard class

20x 5 mg NANOFIX Carbonate hardness 15 R2

Signal word

Do not need labelling as hazardous

-

No hazard class

### 2.2 Label elements

2.5 mL Carbonate hardness 15 (R0)

Do not need labelling as hazardous

Signal word: -

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## 20x 5 mg NANOFIX Carbonate hardness 15 R2

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

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#### Information pertaining to particular risks to the environment

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#### Other hazards

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances or 3.2 Mixtures

#### 2.5 mL Carbonate hardness 15 (R0)

Chemical: *L(+)-tartaric acid*

CAS No.: 87-69-4

Classification:

No criteria for classification or naming of chemical not required.

Formula:

$C_4H_6O_6$

Pseudonym:

2,3-dihydroxy- (2R,3R)-butanedioic acid

TSCA Inventory:

listed

REACH Reg. No.:

01- 2119537204-47-xxxx

EC No.:

201-766-0

RTECS:

WW7875000

MFCD:

00064207

KE No.:

KE-10801

Concentration:

< 0.10 %

acc. CLP (GHS):

The criteria for classification are not fulfilled.

#### 20x 5 mg NANOFIX Carbonate hardness 15 R2

Chemical: *bromophenol blue (pH indicator)*

CAS No.: 115-39-9

Classification:

No criteria for classification or naming of chemical not required.

Formula:

$C_{19}H_{10}Br_4O_5S$

Pseudonym:

Phenol, 4,4'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis[2,6-dibromo-

TSCA Inventory:

listed

EC No.:

204-086-2

RTECS:

SJ74530000

MFCD:

00005875

KE No.:

KE-02746

Concentration:

< 0.10 %

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%.

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## 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.

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- 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**  
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- 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**  
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## 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): 12  
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

**2.5 mL Carbonate hardness 15 (R0)**

Chemical: L(+)-tartaric acid

SUVA(CH) MAK value: [MAK] 2 e/[STEL] 4 e mg/m<sup>3</sup>

CAS No.: 87-69-4

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**20x 5 mg NANOFIX Carbonate hardness 15 R2**

Chemical: *bromophenol blue (pH indicator)*

CAS No.: 115-39-9

## 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.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### 2.5 mL Carbonate hardness 15 (R0)

Appearance: liquid

Colour: colourless

Odor: odorless

pH:

2-3

Solubility in water:

0-100 %

#### 20x 5 mg NANOFIX Carbonate hardness 15 R2

Appearance: solid

Colour: blue

Odor: odorless

pH:

6-8

### 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

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## 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.

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## 2.5 mL Carbonate hardness 15 (R0)

Chemical: *L(+)-tartaric acid*  
TSCA Inventory: listed  
Korea Exist.Chem.Inventory: KE-10801  
LC<sub>50</sub> rat: 7500 mg/kg  
LD<sub>50</sub> rat: 4360 mg/kg

CAS No.: 87-69-4

## 20x 5 mg NANOFIX Carbonate hardness 15 R2

Chemical: *bromophenol blue (pH indicator)*  
TSCA Inventory: listed  
Korea Exist.Chem.Inventory: KE-02746

CAS No.: 115-39-9

## SECTION 12: Ecological information

### 12.1 Toxicity

Following information is valid for pure substances.

#### 2.5 mL Carbonate hardness 15 (R0)

Chemical: *L(+)-tartaric acid*  
Water hazard class (DE): - WGK No.: (5094)  
Dispersion coefficient<sub>(octanol-water)</sub>: -0.76  
Storage class (VCI): 12-13

CAS No.: 87-69-4

#### 20x 5 mg NANOFIX Carbonate hardness 15 R2

Chemical: *bromophenol blue (pH indicator)*  
Water hazard class (DE): 2  
Storage class (VCI): 12-13

CAS No.: 115-39-9

### 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

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

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## 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](http://www.mn-net.com)  
Look for your country-specific regulations.

### 15.2 Chemical safety assessment

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## 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

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, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress

Regulation 849/2021/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

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

#### Revisions/Updates

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