

# Safety Data Sheet

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

NANOCOLOR Sulfite 10 Page: 1/8

Printing date: 01.10.2019 Date of issue: 21.06.2018

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

#### 1.1 **Product identifier**

REF 985089

Product name NANOCOLOR Sulfite 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.

20 x 1 mL Sulfite 10 (R0) 1 x 5 mL Sulfite 10 (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

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





GHS07

GHS08

WARNING Signal word

Hazard identification Hazard classes/categories

H302 Acute Tox. 4 oral H373 STOT RF 2

#### 2.1 Classification of the substance or mixture

1 mL Sulfite 10 (R0)

Do not need labelling as hazardous

Signal word

No hazard class

5 mL Sulfite 10 (R2)

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Signal word WARNING

Hazard identification Hazard classes/categories

H302 Acute Tox. 4 oral H373 STOT RE 2

#### 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).

### 1 mL Sulfite 10 (R0)

Do not need labelling as hazardous Signal word: -

### 5 mL Sulfite 10 (R2)





Signal word: WARNING

#### 2.3 Other hazards

Possible hazards from physicochemical properties

Information pertaining to particular risks to human and possible symptoms

Cause after oral intake, impairments of health when ingested in small quantities. ---

Information pertaining to particular risks to the environment

Other hazards

## **SECTION 3: Composition/information on ingredients**

#### 3.1 **Substances or 3.2 Mixtures**

1 mL Sulfite 10 (R0)

CAS No.: 10043-35-3 Chemical: boric acid

Classification: H360FD, Repr. 1B

 $H_3 BO_3$ Formula: TSCA Inventory: listed

REACH Reg. No.: 01-2119486683-25-0024 SVHC listed: listed (18/06/2010)

EC No.: 233-139-2 005-007-00-2 Indice No.: RTECS: ED4550000 MFCD: 00011337

KE No.: KE-03499

Concentration: 0,1 - <0,5 % Correlation factor: x 0.17 (= %B) 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

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CAS No : 107-21-1

CAS No .: -

US:

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5 mL Sulfite 10 (R2)

Chemical. ethylene glycol

H302, Acute Tox. 4 oral, H373, STOT RE 2 Classification:

Formula: C<sub>2</sub> H<sub>6</sub> O<sub>2</sub> 1,2-ethanediol Pseudonym:

TSCA Inventory: listed

REACH Reg. No.: 01-2119456816-28-XXXX

603-027-00-1 EC No.: 203-473-3 Indice No.: RTECS: KW2975000 MFCD: 00002885

KE No.: KE-13169 Concentration: 80 - <100 %

acc. CLP (GHS): H302, Acute Tox. 4 oral, H373, STOT RE 2

Chemical: chemicals/mixture < 1%

Classification: No criteria for classification or naming of chemical not required. all listed, <1%

TSCA Inventory: KE No.: listed 0,1 - <1 % Concentration:

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%.

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.

#### 4.1.1 After SKIN Contact

Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use soan

#### 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. ---

#### 4.1.4

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

#### 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

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.

#### 5.4 Additional information

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### **MACHEREY-NAGEL**



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### **SECTION 6: Accidental release measures**

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

Do not breathe vapours. Regular staff training is necessary.

#### 6.2 Environmental precautions

not necessary

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

Bind any escaping liquid with inert absorbent.

Collect small amounts of leaked liquid and flush with 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): 6.1
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

#### 1 mL Sulfite 10 (R0)

Chemical: boric acid CAS No.: 10043-35-3

DNEL: [derm] 392 mg/kg bw/day; [inh] 8.3 mg/m³

DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 2.9 mg/L PNEC = Predicted No Effected Concentration

TRGS 900 (DE): 0.5 E mg/m $^3$  E/e respirable Short-term exposure factor: 2 (I), Y

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: [Bor][MAK] 1,8e/[STEL] 1,8e mg/m³

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

### 5 mL Sulfite 10 (R2)

Chemical: ethylene glycol CAS No.: 107-21-1

DNEL: [inh] 35 mg/m³
DNEL = Derived No-Effect Level (for workers)

TRGS 900 (DE): 10 ppm / 26 mg/m³
E/e respirable

SUVA(CH) MAK value: 10 ppm / 26 mg/m³

SH: [Ceiling] 50 ppm
[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: none

Chemical: chemicals/mixture < 1% CAS No.: -

### 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.

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8.2.1 Respiratory protection

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.

823

Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.

8.2.4 Skin protection

Not necessary.

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

1 mL Sulfite 10 (R0)

Appearance: liquid Colour: colourless Odor: odorless

pH: 8,5 0-100 % Solubility in water:

5 mL Sulfite 10 (R2)

Appearance: liquid Colour: colourless Odor: organic

Boiling point: 117 (39 hPa) °C Flash point: 116 °C 1,8 ... 12,8 Vol% **Explosion limits:** Specific gravity: 1,11 g/cm<sup>3</sup> 0-100 % Solubility in water:

Flashing temperature: 410 °C

#### 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

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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### **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.

#### 1 mL Sulfite 10 (R0)

Chemical: boric acid CAS No.: 10043-35-3

TSCA Inventory: listed California Proposition 65 List: not listed Australia NICNAS: not listed Canada CEPA 1999: DSL yes

PRTR: ≥1,0%B class I, Japan PDSCL: not listed Japan CSCL/PRTR:

Japan ISHL: not listed South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-03499 LD50<sub>orl rat</sub>: >3765 mg/kg LC50ihl rat: > 2 mg/m<sup>3</sup> LD50<sub>drm rat</sub>: >2000 mg/kg EU carcinogen: R<sub>D</sub> 1B, R<sub>F</sub> 1B TRGS 905 (DE): R<sub>E</sub> 2, R<sub>F</sub> 2

### 5 mL Sulfite 10 (R2)

Chemical: ethylene glycol CAS No.: 107-21-1 TSCA Inventory: listed California Proposition 65 List: listed, developmental

Korea Exist.Chem.Inventory: KE-13169 LD50<sub>orl rat</sub>: 4700 mg/kg LC\_Loworl hmn: 786 mg/kg LD50<sub>drm rbt</sub>: 2000 mg/kg

Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities. Chronic Effects: May cause damage to organs through prolonged or repeated exposure.

chemicals/mixture < 1% CAS No : -

TSCA Inventory: all listed. <1% Korea Exist.Chem.Inventory: listed

# **SECTION 12: Ecological information**

#### 12.1 **Toxicity**

Following information is valid for pure substances.

1 mL Sulfite 10 (R0)

boric acid CAS No.: 10043-35-3 Chemical:

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 2.9 mg/L

LC50<sub>fish/96h</sub>: [4d] 79.7 ma/L EC50<sub>daphnia/48h</sub>: 91-165 mg/L IC50<sub>scenedesmus</sub> quadricauda/72h [72h] 52.4 mg/L EC10<sub>pseudomonas</sub> putita/16h: Water hazard class (DE): [EC10] 10 mg/L WGK No.: 0315

Dispersion coefficient(octanol-water): -1.09 Storage class (VCI): 6.1 D

5 mL Sulfite 10 (R2)

CAS No.: 107-21-1 Chemical: ethylene glycol

LC50pimephales promelas/96h: [NOEC, 7d] 39.14 g/L LC50leuciscus idus/96h [NOEC, 48h] >10 g/L LC50<sub>fish/96h</sub>: 18.5 g/L EC50<sub>daphnia/48h</sub>: 41 / [24h] 74 mg/L Water hazard class (DE): WGK No.: 0105

Dispersion coefficient(octanol-water): -1.36 Storage class (VCI): 12-13

Chemical: chemicals/mixture < 1% CAS No .: -

Water hazard class (DE): 12-13 Storage class (VCI):

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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

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

### **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

H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure.

16.1.2 List of relevant P phrases

P260sh Do not breathe 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.

P330 Rinse mouth.

#### 16.2 Training advice

Regular safety training.

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#### 16.3 Recommended restriction on use

Only for professional user.

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

#### 16.4

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 790/2009/EU adaptation of CLP regulation 1272/2008/EU to technical and scientific progress 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 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

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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