

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

NANOCOLOR TOC 300 Page: 1/9

Printing date: 01.10.2019 Date of issue: 16.04.2019

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

#### 1.1 **Product identifier**

REF 985078

Product name NANOCOLOR TOC 300

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 0.75 g TOC 300 (R2) 20 x 4 mL TOC 300 (R3)

20 x 4.8 mL TOC 300 (R0 = tube 1)

#### 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

Signal word **DANGER** 

Hazard identification Hazard classes/categories H317 Skin Sens. 1 H319 Eye Irrit. 2 H334 Resp. Sens. 1

#### 2.1 Classification of the substance or mixture

0.75 g TOC 300 (R2)





**GHS08** 

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## CHEREY-NAGE



# **Safety Data Sheet**

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> Signal word **DANGER**

Hazard identification Hazard classes/categories H317 Skin Sens. 1 H334 Resp. Sens. 1

4 mL TOC 300 (R3)

Do not need labelling as hazardous

Signal word

No hazard class

4.8 mL TOC 300 (R0 = tube 1)

Signal word WARNING

Hazard identification Hazard classes/categories

H319 Eye Irrit. 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). This labelling exemption is NOT valid for sensibilizing substances.

## 0.75 g TOC 300 (R2)





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.

### 4 mL TOC 300 (R3)

Do not need labelling as hazardous Signal word: -

### 4.8 mL TOC 300 (R0 = tube 1)



Signal word: WARNING

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### 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 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

### 0.75 g TOC 300 (R2)

Chemical: sodium peroxodisulfate CAS No.: 7775-27-1

Classification: H272, Ox. Liq. 2, H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H317, Skin Sens. 1, H319, Eye Irrit. 2,

H334, Resp. Sens. 1, H335, STOT SE 3
Formula: Na<sub>2</sub> O<sub>8</sub> S<sub>2</sub>
Pseudonym: sodium persulfate

TSCA Inventory: listed REACH Reg. No.: 01-2119495975-15-xxxx

EC No.: 231-892-1 RTECS: SE0525000 KE No.: KE-12369 Concentration: 1 - <10 %

acc. CLP (GHS): H317, Skin Sens. 1, H334, Resp. Sens. 1

Chemical: phosphates (buffer salts) CAS No.: -

Classification: No criteria for classification or naming of chemical not required.

Formula:  $K/Na_{1-3} H_{2-0} PO_4$ 

TSCA Inventory: all listed
KE No.: listed
Concentration: 75 - <100 %

acc. CLP (GHS): The criteria for classification are not fulfilled.

## 4 mL TOC 300 (R3)

Chemical: thymol blue, sodium salt (pH indicator) CAS No.: 62625-21-2

Classification: No criteria for classification or naming of chemical not required.

Formula: C<sub>27</sub> H<sub>29</sub> NaO<sub>5</sub> S

Pseudonym: 4,4'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis[5-methyl-2-(1-methylethyl)-phenol, sodium salt

TSCA Inventory: listed EC No.: 263-650-6

EC No.: 263-650-6 MFCD: 00151093

Concentration: < 1,00 %
acc. CLP (GHS): The criteria for classification are not fulfilled

### 4.8 mL TOC 300 (R0 = tube 1)

Chemical: sodium hydrogensulfate CAS No.: 10034-88-5

Classification: H318, Eye Dam. 1
Formula: NaHSO<sub>4</sub> •H<sub>2</sub> O
TSCA Inventory: listed (CAS 7681-38-1)
REACH Reg. No.: 01-2119552465-36-xxxx

EC No.: 231-665-7 Indice No.: 016-046-00-X

 RTECS:
 VZ1870000

 KE No.:
 not listed

 Concentration:
 1 - <5 %</th>

 acc. CLP (GHS):
 H319, Eye Irrit. 2

### 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

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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. 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

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.

#### 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. ---

#### After ORAL Intake 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

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 --

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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 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): 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

0.75 g TOC 300 (R2)

sodium peroxodisulfate CAS No.: 7775-27-1 Chemical:

not listed NIOSH:

[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

phosphates (buffer salts) CAS No .: -Chemical:

4 mL TOC 300 (R3)

thymol blue, sodium salt (pH indicator) CAS No.: 62625-21-2 Chemical:

4.8 mL TOC 300 (R0 = tube 1)

CAS No.: 10034-88-5 Chemical: sodium hydrogensulfate

#### 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.

### 8.2.1

Use for open access of these substances for example a protection filter, class A/AX. No additional recommendations.

## 8.2.2

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

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

### 8.2.4

Recommended to avoid contamination with these hazards.

### 8.2.5

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

0.75 g TOC 300 (R2)

Appearance: solid Colour: colourless Odor: odorless 8-9

4 mL TOC 300 (R3)

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> Colour: blue Odor: odorless Appearance: liquid

10 Solubility in water: 0-100 %

4.8 mL TOC 300 (R0 = tube 1)

Appearance: liquid Colour: colourless Odor: odorless

#### 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.

### 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.

## 0.75 g TOC 300 (R2)

Chemical: sodium peroxodisulfate CAS No.: 7775-27-1

TSCA Inventory: listed California Proposition 65 List: not listed Australia NICNAS: Yes (PEC/18) Canada CEPA 1999: DSL Yes

not listed, Japan PDSCL: not listed Japan CSCL/PRTR:

Japan ISHL: listed ≥1,0%/≥0,1%, Article 57-2 (SDS required)

South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-12369 902 mg/kg LD50<sub>orl rat</sub>:

Acute Effects: Cause after skin contact, impairments of health when ingested in small quantities.

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.

Chemical: phosphates (buffer salts) CAS No : -

TSCA Inventory: all listed Korea Exist.Chem.Inventory: listed > 2000 mg/kg LD50<sub>orl rat</sub>:

### 4 mL TOC 300 (R3)

Chemical: CAS No.: 62625-21-2 thymol blue, sodium salt (pH indicator)

TSCA Inventory: listed

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4.8 mL TOC 300 (R0 = tube 1)

sodium hydrogensulfate listed (CAS 7681-38-1) Chemical: CAS No.: 10034-88-5

TSCA Inventory:

Korea Exist.Chem.Inventory: not listed LD50<sub>orl rat</sub>: 2490 mg/kg

## **SECTION 12: Ecological information**

#### 12.1 **Toxicity**

Following information is valid for pure substances.

0.75 g TOC 300 (R2)

Čhemical: sodium peroxodisulfate CAS No.: 7775-27-1

Water hazard class (DE): 1 WGK No.: 1352

Storage class (VCI):

CAS No : -Chemical: phosphates (buffer salts)

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

4 mL TOC 300 (R3)

Chemical: thymol blue, sodium salt (pH indicator) CAS No.: 62625-21-2

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

4.8 mL TOC 300 (R0 = tube 1)

sodium hydrogensulfate Chemical: CAS No.: 10034-88-5

LC50<sub>fish/96h</sub>: [24h] 82 mg/L [24h] 6.9 g/L EC50daphnia/48h: Water hazard class (DE): Storage class (VCI): 12-13

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. UN number: 3316 14.2. UN proper shipping name: Chemical Kit

14.3. Class: 14.4. Packing group:

Road transport

Classification code: M11 Tunnel restriction code:

acc. ADR 3.3.1/251: see LQ in Alternative declaration for transportation Limited Quantity:

Air transport

PAX: max. weight PAX: 10 KG CAO 960 max. weight CAO: 10 KG

Maritime transport

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F-A. S-P FmS: Α Storage category:

Or use Alternative declaration for transportation:

UN No.: (see below) class 5.1 III, Excepted Quantities (≤30 mL/∑≤1 L) = ADR/ IATA E1

14.1 UN number: 1505 14.2 UN proper shipping name: Sodium persulphate

14.3 Class: 14.4 Packing group:

Road transport

Classification code: 02

5 Kg Limited Quantity: Tunnel restriction code:

**Excepted Quantity** E 1

Air transport

EmS:

559 PAX: 563

max. weight PAX: 25 Kg CAO: max. weight CAO: 100 Kg Maritime transport F-A, S-Q

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

Storage category:

## **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**

#### List of H and P phrases 16.1

16.1.1 List of relevant H phrases

May cause an allergic skin reaction H317 H319 Causes serious eve irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

16.1.2 List of relevant P phrases

Avoid breathing dust/vapours. P261sh

P280sh Wear protective gloves/eye protection.

P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342+311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

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/EÉC or for DE §§ 11-13 MuSchG 2017)! An individual package of this product or test kit has a moderate hazardous potential.

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#### 16.4 **Further information**

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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, 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

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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