# **MACHEREY-NAGEL**



# Safety Data Sheet

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

REF: 985075	NANOCOLOR TOC 30	Page: 1/10
Printing date: 01.10.2019	Date of issue: 16.04.2019	

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

REF Product name 985075 NANOCOLOR TOC 30

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 5 mL Blank (NULL) 20 x 0.75 g TOC 30 (R2) 20 x 4 mL TOC 30 (R3) 20 x 0.3 mL TOC 30 (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



Signal word	DANGER
Hazard identification	Hazard classes/categories
H317 H318 H334	Skin Sens. 1 Eye Dam. 1 Resp. Sens. 1

### 2.1 Classification of the substance or mixture

### 5 mL Blank (NULL)

Signal word

Do not need labelling as hazardous

No hazard class

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0.75 g TOC 30 (R2)		
	$\wedge \wedge$	
	GHS07 GHS08	
Signal word	DANGER	
Hazard identification	Hazard classes/categories	
H317 H334	Skin Sens. 1 Resp. Sens. 1	
4 mL TOC 30 (R3)		
Signal word	Do not need labelling as hazardous -	
No hazard class		
0.3 mL TOC 30 (R0 = tube 1)		
	GHS05	
Signal word	DANGER	
Hazard identification	Hazard classes/categories	
H318	Eye Dam. 1	

#### 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.

### 5 mL Blank (NULL)

Do not need labelling as hazardous Signal word: -

### 0.75 g TOC 30 (R2)



GHS07 GHS08

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.



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# Safety Data Sheet

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### 4 mL TOC 30 (R3)

Do not need labelling as hazardous Signal word: -

### 0.3 mL TOC 30 (R0 = tube 1)



Signal word: DANGER

H318 Causes serious eye damage.

P280sh, P305+351+338, P310

Wear protective gloves/eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

#### 2.3 Other hazards

### Possible hazards from physicochemical properties

Generally in the case of pH values are less than 2 or higher than 11.5 then it is corrosive. ---

### Information pertaining to particular risks to human and possible symptoms

Causes varying degrees of acid burns on the skin, to the eyes and to the mucous membranes and wounds which do not heal quickly depending on the concentration, temperature and the exposure time. Vapours especially which steam from hot liquids and mist can have a severe irritant effect upon the eyes and the respiratory organs.

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

Other hazar	ds	
vPvB:	not applicable	
PBT:	not applicable	

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances or 3.2 Mixtures

## 5 mL Blank (NIII I)

L Blank (NULL)	
Chemical: water	CAS No.: 7732-18-5
Classification:	No criteria for classification or naming of chemical not required.
Formula:	H <sub>2</sub> O
TSCA Inventory:	listed
REACH Reg. No.:	exempt, Annex IV
EC No.:	231-791-2
RTECS:	ZC0110000
KE No.:	KE-35400
Concentration:	90 - <100 %
acc. CLP (GHS):	The criteria for classification are not fulfilled.

### 0.75 g TOC 30 (R2)

Chemical: CAS No.: 7775-27-1 sodium peroxodisulfate . H272, Ox. Liq. 2, H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H317, Skin Sens. 1, H319, Eye Irrit. 2, Classification: 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-12369 KF No<sup>+</sup> Concentration: 1 - <10 % acc. CLP (GHS): H317, Skin Sens. 1, H334, Resp. Sens. 1

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Chemical: phos	phates (buffer salts)		CAS No.: -
Classification:	No criteria for classification or namin	g of chemical not required.	
Formula:	K/Na <sub>1-3</sub> H <sub>2-0</sub> PO <sub>4</sub>		
TSCA Inventory:	all listed		
KE No.:	listed		
Concentration:	75 - <100 %		
acc. CLP (GHS):	The criteria for classification are not	ulfilled.	
4 mL TOC 30 (R3)			
Chemical: thym	ol blue, sodium salt (pH indicato	r)	CAS No.: 62625-21-2
Classification:	No criteria for classification or namin	g of chemical not required.	
Formula:	C <sub>27</sub> H <sub>29</sub> NaO <sub>5</sub> S		
Pseudonym:		oxathiol-3-ylidene)bis[5-	methyl-2-(1-methylethyl)-phenol, sodium salt
TSCA Inventory: EC No.:	listed 263-650-6	MFCD:	00151093
Concentration:	< 1.00 %	MFCD.	00151095
acc. CLP (GHS):	The criteria for classification are not	ulfilled.	
0.3 mL TOC 30 (R0 = tube			040 Ni 40004 00 F
Chemical: sodi Classification:	um hydrogensulfate H318, Eye Dam. 1		CAS No.: 10034-88-5
Formula:	NaHSO4 •H2 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:	10 - <25 %		
acc. CLP (GHS):	H318, Eye Dam. 1		

### 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. Remove contaminated clothing. Show product package, packing insert and this material safety data sheet to the doctor. Take to a doctor, in a raised position if there are breathing difficulties.

### 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.

### 4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open for min. 10 minutes with eye washing bottle, eye douche or running water (protect intact eye). Before (if possible) apply eye drops Proxymetacaine 0.5%, if the opening the eyelid convulsion is painful. Further treatment to be carried out by an eye specialist.

### 4.1.3 After INHALATION of vapours

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 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. After EYE CONTACT rinse immediately with plenty of water for a long time. Eyelid convulsion measures. Name the corrosive chemical. Further treatment must to be carried out by an eye specialist. Inform patient respectively further measures and the possibility of long-term damages. ---

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### 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, respectively face 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 necessarv

#### 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 ---

## 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

7.2.1	Requirements for stock rooms and	containers
	Storage class (VCI): Water hazard class (DE):	5.1B 2
	The original product package of MACHER	0

Requirements for stock rooms and containers Keep original product packages tightly closed during handling and storage. Use inbreakable container for transport of glass bottles.

#### 7.3 Specific end use(s)

Product for analytical use.

### SECTION 8: Exposure controls/personal protection

#### 8.1 **Control parameters**

5 mL Blank Chemical:	(NULL) water	CAS No.: 7732-18-5
0.75 g TOC	30 (R2)	
Chemical:	sodium peroxodisulfate	CAS No.: 7775-27-1
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	



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	Chemical:	phosphates (buffer salts)	CAS No.: -
	<b>4 mL TOC</b> : Chemical:	<b>30 (R3)</b> thymol blue, sodium salt (pH indicator)	CAS No.: 62625-21-2
	<b>0.3 mL TOO</b> Chemical:	C 30 (R0 = tube 1) sodium hydrogensulfate	CAS No.: 10034-88-5
8.2			nicals with floor drainage and washing facilities. The highest
8.2.1		spiratory protection e for open access of these substances for example a protection filter, class A/AX. 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 Ansel or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.		
8.2.3	<b>Eye protection</b> Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection or face protection.		
8.2.4	Skin protection Recommended to avoid contamination with these hazards.		
8.2.5	<b>Personal hygiene</b> 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.		stance has been spilled, and soak it in water. Wash hands

## SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

<b>5 mL Blank (NULL)</b> Appearance: liquid pH: Specific gravity:	Colour: colourless 6-8 1,00 g/cm³	Odor: odorless
<b>0.75 g TOC 30 (R2)</b> Appearance: solid pH:	Colour: colourless 8-9	Odor: odorless
<b>4 mL TOC 30 (R3)</b> Appearance: liquid pH: Solubility in water:	Colour: blue 10 0-100 %	Odor: odorless
<b>0.3 mL TOC 30 (R0 = tube 1)</b> Appearance: liquid pH:	Colour: colourless <1	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.

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0.3	Possibility of hazardous reaction No further data available.	ons	
0.4	Conditions to avoid Not necessary. Observe labeled storage t	emperature	
0.5	Incompatible materials		
	Avoid contact with strong acids or alkaline	es.	
0.6	Hazardous decomposition proc	ducts	
	In the original package all parts/all reager period under recommended conditions.	nts are safety and separated stored. Decompositions are no	t observed during the expiration
BEC1	ION 11: Toxicological inforr	nation	
1.1	Information on toxicological eff Following information is valid for pure	fects substances. Quantitative data on the toxicity of this produc	ct are not available.
	5 mL Blank (NULL)		
	Chemical: water TSCA Inventory: listed Korea Exist.Chem.Inventory: KE-354		o.: 7732-18-5
	0.75 g TOC 30 (R2)		
	Japan ISHL: listed ≥ South Korea TCCA: not liste Korea Exist.Chem.Inventory: KE-123 LD50 <sub>orl rat</sub> : 902 mg Acute Effects: Cause after skin conta	California Proposition 65 List: not listed EC/18) Canada CEPA 1999: DSL Yes ed, Japan PDSCL: not listed 1,0%/≥0,1%, Article 57-2 (SDS required) ed 369 J/kg ict, impairments of health when ingested in small quantities tion by skin contact, also in repeated contact of small amou	
	Chemical: phosphates (bu TSCA Inventory: all lister Korea Exist.Chem.Inventory: listed LD50 <sub>orl rat</sub> : > 2000	uffer salts) CAS N d	0.: -
	4 mL TOC 30 (R3)		
		dium salt (pH indicator) CAS N	o.: 62625-21-2
	0.3 mL TOC 30 (R0 = tube 1)		
	Chemical: sodium hydrogu TSCA Inventory: listed (0 Korea Exist.Chem.Inventory: not liste LD50 <sub>orl rat</sub> : 2490 m	CAS 7681-38-1) ed	o.: 10034-88-5
SECI	ION 12: Ecological informat	ion	
2.1	Toxicity		
2.1	Following information is valid for pure	substances.	
12.1	5 mL Blank (NULL)		

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	0.75 g TOC 30 (R2) Chemical: sodium pe Water hazard class (DE): Storage class (VCI):	eroxodisulfate 1 WGK No.: 1352 5.1 B	CAS No.: 7775-27-1
	Chemical: phosphate Water hazard class (DE): Storage class (VCI):	es ( <i>buffer salts)</i> 1 13	CAS No.: -
	4 mL TOC 30 (R3) Chemical: thymol blu Water hazard class (DE): Storage class (VCI):	ie, sodium salt (pH indicator) 2 12-13	CAS No.: 62625-21-2
	0.3 mL TOC 30 (R0 = tube 1) Chemical: sodium hy LC50 <sub>fish/96</sub> h : EC50 <sub>daphnia/48</sub> h : Water hazard class (DE): Storage class (VCI):	/drogensulfate [24h] 82 mg/L [24h] 6.9 g/L 1 12-13	CAS No.: 10034-88-5
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 asse no data available	ssment	
12.6	Other adverse effects no additional data available		
SECT	ION 13: Disposal considera	tions	
	lease observe local regulations for collectior formation on laboratory waste disposal (was		t waste disposal company, where you will obtain

#### 13.1 Waste treatment methods

## **SECTION 14: Transport information**

	UN number: Class:	3316 9		UN proper shipping Packing group: II	name: Chemical Kit
Road	transport				
Classi	fication code:	M11		Tunnel restriction coo	de: E
	d Quantity: <i>nsport</i>	acc. Al	DR 3.3	1/251: see LQ in Alter	native declaration for transportation
PAX:		960		max. weight PAX:	10 KG
CAO: Maritii	ne transport	960		max. weight CAO:	10 KG
EmS:	·	F-A, S	-P	Storage category:	A
Or use <b>Alternative declaration for transportation:</b> UN No.: (see below) class 5.1 III. <b>Excepted Quantities</b> ( $\leq$ 30 mL/ $\Sigma$ $\leq$ 1 L) = ADR/ IATA E1					

No.: (see below) class 5.1 III, **Excepted Quantities** (≤30 mL/∑≤1 L) = ADR/ IATA E1 or 14.1 UN number: 1505 14.2 UN proper shipping name: Sodium persulphate 14.3 Class: 5.1 14.4 Packing group: - 111 Road transport Classification code: O2 Limited Quantity: 5 Kg Tunnel restriction code: Е Excepted Quantity: E 1 Air transport 559 25 Kg max. weight PAX: PAX:

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CAO:	563	max. weight CAO: 100 Kg	

Maritime transport EmS: F-A, S-Q Storage category: A

#### 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 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 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

H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### 16.1.2 ist of relevant P phrases

P261sh	Avoid breathing dust/vapours.			
P280sh	Wear protective gloves/eye protection.			
P304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.			
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
P310	Immediately call a POISON CENTER/doctor.			
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/EEC or for DE §§ 11-13 MuSchG 2017)! An individual package of this product or test kit has a moderate hazardous potential.

#### 16.4 Further information

DE/international:

Tel.:

Fax:

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

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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 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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