# **MACHEREY-NAGEL**



# **Safety Data Sheet**

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

REF: 985068	NANOCOLOR Nitrite 2	Page: 1/7
Printing date: 02.06.2020	Date of issue: 30.07.2018	

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

REF       965068         Product name       NANOCOLOR Nitrite 2         REACH Registration number (s):       see SECTION 3.1/3.2 or         A registration number for the substance(s) does not exist because the annual tomage does not require registration or the substance or its use is excluded from registration.         1x 5 mL Nitrite (R2)       20 x 12 mg Nitrite 2, lyophilizied (R0) <b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b> 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         Manufactured by:         MACHEREY-NAGEL GmbH & Co. KG         Neumann-Neander-Str. 6-8, 52355 Dueren, GERMANY Tel: +49 2421 969 0         Tel: +49 2421 969 0         Cutside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service. DE: Gemeinsames Giftinformationszentrum (GGIZ)         90808 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	1.1	Product identifier	
<ul> <li>REACH Registration number(s): see SECTION 3.13.2 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.</li> <li>1 x 5 mL Nitrite (R2) 20 x 12 mg Nitrite 2, lyophilizied (R0)</li> <li><b>Relevant identified uses</b> 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.</li> <li><b>Uses advised against</b> not described</li> <li><b>Manufactured by:</b> MACHEREY-NAGEL GmbH &amp; Co. KG Neumann-Neander-Str. 6-8, 52355 Dueren, GERMANY Tel: +49 2421 969 0</li> <li><b>Email:</b> sds@mn-net.com (msds@mn-net.com)</li> <li><b>Email:</b> sds@mn-net.com (msds@mn-net.com)</li> <li><b>Control Emergency telephone number</b> Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service. DE: Gemeinsames Giftinformationszentrum (GGIZ)</li> <li><b>SECTION 2: Hazard identification</b></li> </ul>			
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2.0 Classification of the complete product	SECT	<b>FION 2: Hazard identificatio</b>	n
<b>A</b>	2.0	Classification of the complete	e product
			<b>^</b>
		<	

	GHS07
Signal word	WARNING
Hazard identification	Hazard classes/categories
H303 H319	Acute Tox. 5 oral (non EU)

### 2.1 Classification of the substance or mixture

5 mL Nitrite (R2)

	GHS07
Signal word	WARNING
Hazard identification	Hazard classes/categories
H319	Eye Irrit. 2



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### 12 mg Nitrite 2, lyophilizied (R0)

Signal word	Do not need labelling as hazardous -	
Hazard identification	Hazard classes/categories	
H303	Acute Tox. 5 oral (non EU)	

#### 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).

### 5 mL Nitrite (R2)



Signal word: WARNING

### 12 mg Nitrite 2, lyophilizied (R0)

Do not need labelling as hazardous Signal word: -

#### 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

Information pertaining to particular risks to the environment

Other hazards

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

#### 3.1 Substances or 3.2 Mixtures

### 5 mL Nitrite (R2)

Chemical: citric a	cid	CAS No.: 77-92-9
Classification:	H303, Acute Tox. 5 oral, H316, Skin Irrit. 3, H319, Eye Irrit	2
Formula:	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>	
Pseudonym:	2-hydroxy-1,2,3-propanetricarboxylic acid	
TSCA Inventory:	listed	
REACH Reg. No.:	01-2119457026-42-xxxx	
EC No.:	201-069-1	
RTECS:	GE7350000/GE7810000	
KE No.:	KE-20831	
Concentration:	20 - <40 %	
acc. CLP (GHS):	H319, Eye Irrit. 2	

12 mg Nitrite 2, lyophilizied (R0)



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REF: 9	85068		NANOCOLOR N	itrite 2	Page: 3/
Printing date: 02.06.2020 Chemical: N-(1- Classification: Formula: Pseudonym: TSCA Inventory:		)	Date of issue: 30.07.2018		-
		naphthyl)-ethylendiamine dihydro H315, Skin Irrit. 2, H319, Eye C <sub>12</sub> H <sub>16</sub> Cl <sub>2</sub> N <sub>2</sub> N1-1-naphthalenyl-1,2-ethane listed	Irrit. 2	CAS No.: 1465-25-4	
	E F F	EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	215-981-2 KV5330000 not listed 1 - <10 % The criteria for classification are not fu	MFCD:	00012556
	( F F T	Chemical: sulfai Classification: Formula: Pseudonym: TSCA Inventory: EC No.:	nilamide H303, Acute Tox. 5 oral C <sub>6</sub> H <sub>8</sub> N <sub>2</sub> O <sub>2</sub> S 4-aminobenzene sulfonamide listed 200-563-4		CAS No.: 63-74-1
	F F (	RTECS: KE No.: Concentration: acc. CLP (GHS):	WO8400000 KE-01188 10 - <30 % H303, Acute Tox. 5 oral	MFCD:	00007939
8.3	Remarks When not	listed, mixtures are	e added with water [CAS No. 773	2-18-5] to 100%.	
	List of H a	and P phrases: see	section 16.1		
SECT	ION 4: Firs	t aid measu	res		
4.1	<b>Description of first aid measures</b> Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice.				
1.1.1		After SKIN Contact Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use soap.			
1.1.2	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

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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SEC	TION 6: Accidental	elease measures			
6.1	•	Personal precautions, protective equipment and emergency procedures Do not breathe vapours. Regular staff training is necessary.			
6.2	Environmental preca not necessary	utions			
6.3	Bind any escaping liquid wi	al for containment and cleaning up th inert absorbent. aked liquid and flush with water into drains.			
6.4	Reference to other s	ections			
SEC	TION 7: Handling ar	d storage			
7.1	<b>Precautions for safe</b> Handling in accordance wit	handling h the test instruction, that comes with the product.	Use a safety bottle when shaking test tubes.		
7.2		storage, including any incompatibilitie ge of MACHEREY-NAGEL allows a safe storage. 12 3	S		
7.2.1		<b>Requirements for stock rooms and containers</b> Keep original product packages tightly closed during handling and storage.			
7.3	Specific end use(s) Product for analytical use.				
SEC	TION 8: Exposure c	ontrols/personal protection			
8.1	Control parameters				
	5 mL Nitrite (R2) Chemical: <i>citric aci</i> PNEC (fresh water) : PNEC = Predicted TRGS 900 (DE): Short-term exposure fa	440 mg/L No Effected Concentration 2 E mg/m <sup>3</sup> E/e respirable	CAS No.: 77-92-9		
	skin resorptive (H)	, respiratory sensitizable (Sa), skin sensitizable (Sh), teratogen	ic (Z) not securely excluded / (Y) certainly excluded		
	<b>12 mg Nitrite 2, lyoph</b> Chemical: N-(1-na)	ilizied (R0) hthyl)-ethylendiamine dihydrochloride	CAS No.: 1465-25-4		
	Chemical: sulfanila	mide	CAS No.: 63-74-1		
8.2		Exposure controls Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest evel of cleanliness must be maintained at the workplace.			
8.2.1		Respiratory protection No additional recommendations.			
8.2.2					
8.2.3	<b>Eye protection</b> Yes, safety glasses ac				
8.2.4	Skin protection Not necessary.				
8.2.5	Personal hygiene				



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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

5 A

<b>5 mL Nitrite (R2)</b> Appearance: liquid pH: Solubility in water:	Colour: colourless 2-3 0-100 %	Odor: odorless
<b>12 mg Nitrite 2, lyophilizied (R0)</b> Appearance: solid pH: Solubility in water:	Colour: colourless 5-7 0-100 %	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 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.

### 5 mL Nitrite (R2)

Chemical:	citric acid
TSCA Inventory:	listed
Korea Exist.Chem.In	ventory: KE-20831
LD50 <sub>orl rat</sub> :	>3000 mg/kg
LC50 <sub>ihl rat</sub> :	5800 mg/m³
LD50 <sub>drm rat</sub> :	>2000 mg/kg
LD50 <sub>orl mus</sub> :	5400 mg/kg
LD50 <sub>scu rat</sub> :	5500 mg/kg

12 mg Nitrite 2, lyophilizied (R0)

Chemical: N-(1-naphthyl)-ethylendiamine dihydrochloride **TSCA** Inventory: listed Korea Exist.Chem.Inventory: not listed

CAS No.: 1465-25-4

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		Date of issue: 30.07.2018	
	Chemical: <i>sulfanilamide</i> TSCA Inventory: listed Korea Exist.Chem.Inventory: KE-01188 LD50 <sub>orl rat</sub> : 3900 mg/		CAS No.: 63-74-1
SECT	ION 12: Ecological informatic	on	
12.1	Toxicity		
	Following information is valid for pure su	bstances.	
	5 mL Nitrite (R2) Chemical: citric acid PNEC(fresh water) : PNEC = Predicted No Effected Concentration		CAS No.: 77-92-9
	LC50 <sub>leuciscus</sub> idus/96h : EC50 <sub>daphnia</sub> /48h : IC50 <sub>scenedesmus</sub> quadricauda/72h : EC10 <sub>p</sub> seudomonas putita/16h : Water hazard class (DE): Dispersion coefficient <sub>(octanol-water)</sub> : Storage class (VCI):	440-760 mg/L 1535 <sub>24h</sub> mg/L 7d: 425-640 mg/L EC0: >10 g/L 1 WGK No.: 0057 -1.72 12-13	
	<b>12 mg Nitrite 2, lyophilizied (R0)</b> Chemical: <i>N-(1-naphthy</i> Water hazard class (DE): Storage class (VCI):	l)-ethylendiamine dihydrochloride 3 13	CAS No.: 1465-25-4
	Chemical: sulfanilamide Water hazard class (DE): Storage class (VCI):	1 WGK No.: n.n. 12-13	CAS No.: 63-74-1
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 assess no data available	ment	
12.6	Other adverse effects no additional data available		
SECT	ION 13: Disposal consideration	ons	
	•		ct waste disposal company, where you will obtain

#### 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



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

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### 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

- H303 May be harmful if swallowed. (not regulated in EU-CLP) H319 Causes serious eye irritation.
- 16.1.2 List of relevant P phrases

P280sh Wear protective gloves/eye protection.

#### 16.2 Training advice

16.3

Regular safety training.

### Recommended restriction on use

Only for professional user.

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

### 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, 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

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