# **MACHEREY-NAGEL**



# Safety Data Sheet

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

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Printing date: 02.06.2020	Date of issue: 20.05.2019	

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

1.1	Product identifier	
	REF Product name	91853 NANOCOLOR Copper
	REACH Registration number( A registration number for th the substance or its use is o	e substance(s) does not exist because the annual tonnage does not require registration or
		2 x 100 mL Copper R1 2 x 100 mL Copper R2
1.2	<b>Relevant identified uses</b> Product for analytical use. Exposure Scenario Cl	of the substance or mixture and uses advised against assification according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 o is integrated into sections 1-16.
1.3	Details of the supplier of f Manufactured by: MACHEREY-NAGEL GmbH & Neumann-Neander-Str. 6-8, 5 Tel.: +49 2421 969 0	& Co. KG
1.4 Emergency telephone number Information not necessary.		mber
	You find our current versions of SDS	(22 languages) in Internet: http://www.mn-net.com/SDS
SECT	ION 2: Hazard identification	ation
2.0	Classification of the comp	olete product
2.1	Classification of the subs	tance or mixture
	100 mL Copper R1	
	Signal word	Do not need labelling as hazardous
	No hazard class	
	100 mL Copper R2	
	Signal word	Do not need labelling as hazardous -
	No hazard class	
2.2	Label elements	
	<b>100 mL Copper R1</b> Do not need labelling Signal word: -	g as hazardous

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### 100 mL Copper 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

Information pertaining to particular risks to the environment

Other hazards

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

#### 3.1 Substances or 3.2 Mixtures

100 mL Copper R1 Chemical: citrate Classification: TSCA Inventory: KE No.: Concentration: acc. CLP (GHS):	e buffer solution No criteria for classification or namin all listed listed 10 - <25 % The criteria for classification are not		CAS No.: -
Classification: Formula: Pseudonym: TSCA Inventory: EC No.:	acid bis(cyclohexylidenehydra) No criteria for classification or namin C <sub>14</sub> H <sub>22</sub> N <sub>4</sub> O <sub>2</sub> cuprizon, 1,2-bis(2-cyclohexy listed 206-729-2	g of chemical not required. /lidenehydrazide)ethaned	
RTECS: Concentration: acc. CLP (GHS):	RO2520000 < 1.00 % The criteria for classification are not	MFCD: fulfilled.	00001659
Chemical: dimet Classification: Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.:	hyl sulfoxide No criteria for classification or namin C <sub>2</sub> H <sub>6</sub> OS DMSO, 1,1'-sulfinylbis-metha listed 01-2119431362-50-xxxx 200-664-3		CAS No.: 67-68-5
RTECS: KE No.: Concentration: acc. CLP (GHS):	PV6210000 KE-32367	MFCD: fulfilled.	00002089

#### 3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.

- - -



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SECTION 1: First aid moasuros		

### CITON 4: FIrst and measures

4.1	<b>Description of first aid measures</b> 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.
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

#### 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

### 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**

### SECTION 7: Handling and storage

- 7.1 Precautions for safe handling
- Handling in accordance with the test instruction, that comes with the product.
- 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): 3
- 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.



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SECT	ION 8: Exposure contro	ols/personal protection	
8.1	Control parameters		
	<b>100 mL Copper R1</b> Chemical: <i>citrate buffer sc</i>	olution	CAS No.: -
	<b>100 mL Copper R2</b> Chemical: oxalic acid bis(o	cyclohexylidenehydrazide)	CAS No.: 370-81-0
	Chemical: <i>dimethyl sulfoxi</i> DNEL: DNEL = Derived No-Effect L	394 <sub>inh</sub> mg/m <sup>3</sup>	CAS No.: 67-68-5
	PNEC(fresh water) : PNEC = Predicted No Effect	17 mg/L ted Concentration	
	TRGS 900 (DE):	50 ppm / 160 mg/m³ E/e respirable	
	Short-term exposure factor: skin resorptive (H), respira	2 (I), H, Z tory sensitizable (Sa), skin sensitizable (Sh), teratoger	nic (Z) not securely excluded / (Y) certainly excluded
		50 ppm / 160 mg/m <sup>3</sup>	
8.2	Exposure controls Not necessary.Good ventilation ar	d extraction system in the room, floor resist	tant 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.		
SECT	ION 9: Physical and ch	emical properties	

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

<b>100 mL Copper R1</b> Appearance: liquid pH: Solubility in water:	Colour: colourless 8-9 0-100 %	Odor: aminic
<b>100 mL Copper R2</b> Appearance: liquid pH: Flash point: Solubility in water:	Colour: colourless - 95 °C 0-100 %	Odor: fusty, mouldy

#### 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
- None

#### 10.2 **Chemical stability**



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	No known instability.	
0.3	Possibility of hazardous reactions	
0.4	Conditions to avoid Not known. Observe labeled storage temperature	
0.5	Incompatible materials Not known.	
0.6	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.	
SECI	ION 11: Toxicological information	
1.1	Information on toxicological effects Following information is valid for pure substance	uantitative data on the toxicity of this product are not available.
	100 mL Copper R1 Chemical: citrate buffer solution TSCA Inventory: all listed Korea Exist.Chem.Inventory: listed	CAS No.: -
	100 mL Copper R2	
	Chemical: oxalic acid bis(cyclohexylic TSCA Inventory: listed	hydrazide) CAS No.: 370-81-0
	Chemical:dimethyl sulfoxideTSCA Inventory:listedKorea Exist.Chem.Inventory:KE-32367LD50orl rat :14.5 g/kgLD50drm rat :40 g/kg	CAS No.: 67-68-5
SECT	FION 12: Ecological information	
2.1	Toxicity Following information is valid for pure substance	
	100 mL Copper R1 Chemical:citrate buffer solutionWater hazard class (DE):0Storage class (VCI):12	CAS No.: -
	100 mL Copper R2Chemical:oxalic acid bis(cycloheWater hazard class (DE):3Storage class (VCI):12	lenehydrazide) CAS No.: 370-81-0
	Chemical:dimethyl sulfoxidePNEC(fresh water):17 mg/PNEC = Predicted No Effected Concentration17 mg/LC50fish/96h:38.5 g/EC50daphnia/48h:24.6 g/EC10pseudomonas putita/16h:EC/16lWater hazard class (DE):1Dispersion coefficient(octanol-water):-1.35Storage class (VCI):12	CAS No.: 67-68-5 00 mg/L K No.: 5050



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12.2	Persistence and degradabilit not necessary	τ <b>γ</b>	
12.3	Bioaccumulative potential not necessary		
12.4	Mobility in soil not necessary		
12.5	Results of PBT and vPvB ass no data available	sessment	
12.6	Other adverse effects no additional data available		
SECI	TION 13: Disposal conside	rations	
N	lot necessary.		

13.1 Waste treatment methods

> GENERAL: Empty solids into municipal waste, empty liquids diluted into drains. Normally it is possible to empty small amounts (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

### **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 / Gerantstoffverordnung -GefStoffV), revised on November 2010, according to Directive 98/24/EC MN Leaflet/User manual, also see www.mn-net.com Look for your country-specific regulations.

#### 15.2 Chemical safety assessment

### 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**

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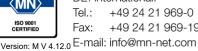
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#### 16.5 Sources of key data

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

### **Revisions/Updates**

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

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