

# Safety Data Sheet

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

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

### 1.1 Product identifier

REF 936220  
 Product name VISOCOLOR PP free Chlorine, 100  
 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.  
 100 x Powder Pillow free Chlorine

### 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  
 Valenciener Str. 11, 52355 Düren, GERMANY  
 Tel.: +49 2421 969 0 E-mail: sds@mn-net.com (msds@mn-net.com)

### 1.4 Emergency telephone number

Information not necessary.  
 You find our current versions of SDS (22 languages) in Internet: <http://www.mn-net.com/SDS>

## SECTION 2: Hazard identification

### 2.1 Classification of the substance or mixture

**Powder Pillow free Chlorine**  
 Signal word Do not need labelling as hazardous  
 -  
 No hazard class

### 2.2 Label elements

**Powder Pillow free Chlorine**  
 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**  
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## Other hazards

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances or 3.2 Mixtures

#### Powder Pillow free Chlorine

Chemical: *boric acid* CAS No.: 10043-35-3  
 Classification: H360FD, Repr. 1B  
 Formula:  $H_3BO_3$   
 TSCA Inventory: listed  
 REACH Reg. No.: 01-2119486683-25-0024  
**SVHC listed: listed (18/06/2010)**  
 EC No.: 233-139-2 Indice No.: 005-007-00-2  
 RTECS: ED4550000 MFCD: 00011337  
 KE No.: KE-03499  
 Concentration: 0.5 - <5.5 % 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.

Chemical: *ethylenedinitrilo tetraacetic acid (EDTA)* CAS No.: 60-00-4  
 Classification: H319, Eye Irrit. 2, H412, Aquatic Chronic 3  
 Formula:  $C_{10}H_{16}N_2O_8$   
 Pseudonym: Edetic acid, Glycine, N,N'-1,2-ethanediybis[N-(carboxymethyl)-  
 TSCA Inventory: listed  
 REACH Reg. No.: 01-2119486399-18-xxxx  
 RTECS: AH4025000 MFCD: 0003541  
 KE No.: KE-13648  
 Concentration: 1 - <10 %  
 acc. CLP (GHS): The criteria for classification are not fulfilled.

Chemical: *tri-sodium citrate* CAS No.: 6132-04-3  
 Classification: No criteria for classification or naming of chemical not required.  
 Formula:  $C_6H_5Na_3O_7 \cdot 2H_2O$   
 TSCA Inventory: listed (CAS 68-04-2)  
 REACH Reg. No.: 01-2119457027-40-xxxx  
 EC No.: 200-675-3  
 RTECS: GE8300000  
 KE No.: KE-20843  
 Concentration: 60 - <80 %  
 acc. CLP (GHS): The criteria for classification are not fulfilled.

Chemical: *N,N-Diethyl-1,4-phenylene diammonium sulfate* CAS No.: 6283-63-2  
 Classification: H302, Acute Tox. 4 oral, H312, Acute Tox. 4 derm.  
 Formula:  $C_{10}H_{16}N_2 \cdot H_2O$   
 Pseudonym: N,N-diethylbenzene-1,4-diammonium sulfate  
 TSCA Inventory: listed (CAS 6065-27-6)  
 EC No.: 228-500-6 Indice No.: 612-080-00-X  
 RTECS: SS9625000 MFCD: 00012993  
 Concentration: 1 - <5 %  
 acc. CLP (GHS): The criteria for classification are not fulfilled.

Chemical: *potassium dihydrogen phosphate* CAS No.: 7778-77-0  
 Classification: No criteria for classification or naming of chemical not required.  
 Formula:  $KH_2PO_4$   
 TSCA Inventory: listed  
 REACH Reg. No.: 01-2119490224-41-XXXX  
 EC No.: 231-913-4  
 RTECS: TC6615500 MFCD: 00011401  
 KE No.: KE-28622  
 Concentration: 5 - <25 %  
 acc. CLP (GHS): The criteria for classification are not fulfilled.

### 3.3 Remarks

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

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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.

#### 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

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### 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

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## 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

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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.

### 7.2 Conditions for safe storage, including any incompatibilities

The original product package of MACHEREY-NAGEL allows a safe storage.

Storage class (VCI): 6.1D

Water hazard class (DE): 3

#### 7.2.1 Requirements for stock rooms and containers

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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

#### Powder Pillow free Chlorine

Chemical: *boric acid*

CAS No.: 10043-35-3

DNEL: [derm] 392 mg/kg bw/day; [inh] 8.3 mg/m<sup>3</sup>

DNEL = Derived No-Effect Level (for workers)

PNEC(fresh water): 2.9 mg/L

PNEC = Predicted No Effect Concentration

TRGS 900 (DE): 0.5 E mg/m<sup>3</sup>

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/m<sup>3</sup>

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

Chemical: *ethylenedinitrilo tetraacetic acid (EDTA)*

CAS No.: 60-00-4

DNEL: 1.5 mg/m<sup>3</sup>

DNEL = Derived No-Effect Level (for workers)

PNEC(fresh water): 2.2 mg/L

PNEC = Predicted No Effect Concentration

Chemical: *tri-sodium citrate*

CAS No.: 6132-04-3

Chemical: *N,N-Diethyl-1,4-phenylene diammonium sulfate*

CAS No.: 6283-63-2

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

Chemical: *potassium dihydrogen phosphate*

CAS No.: 7778-77-0

### 8.2 Exposure controls

Not necessary. Good ventilation and extraction system in the room, floor resistant 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.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Powder Pillow free Chlorine

Appearance: solid

Colour: white

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

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None

### 10.2 Chemical stability

No known instability.

### 10.3 Possibility of hazardous reactions

None.

### 10.4 Conditions to avoid

Not known. ---

### 10.5 Incompatible materials

Not known.

### 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.

#### Powder Pillow free Chlorine

Chemical:	<i>boric acid</i>	CAS No.: 10043-35-3
TSCA Inventory:	listed	California Proposition 65 List: not listed
Australia NICNAS:	not listed	Canada CEPA 1999: DSL yes
Japan CSCL/PRTR:	PRTR: ≥1,0%B class I, Japan PDSCL: not listed	
Japan ISHL:	not listed	
South Korea TCCA:	not listed	
Korea Exist.Chem.Inventory:	KE-03499	
LD50 <sub>orl rat</sub> :	>3765 mg/kg	
LC50 <sub>ihl rat</sub> :	> 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	

Chemical:	<i>ethylendinitrilo tetraacetic acid (EDTA)</i>	CAS No.: 60-00-4
TSCA Inventory:	listed	
Japan CSCL/PRTR:	PRTR: ≥1,0% class I	
Korea Exist.Chem.Inventory:	KE-13648	
LD50 <sub>orl rat</sub> :	2000-4500 mg/kg	

Chemical:	<i>tri-sodium citrate</i>	CAS No.: 6132-04-3
TSCA Inventory:	listed (CAS 68-04-2)	
Korea Exist.Chem.Inventory:	KE-20843	
LD50 <sub>orl rat</sub> :	>8000 mg/kg	

Chemical:	<i>N,N-Diethyl-1,4-phenylene diammonium sulfate</i>	CAS No.: 6283-63-2
TSCA Inventory:	listed (CAS 6065-27-6)	California Proposition 65 List: not listed
Australia NICNAS:	not listed	Canada CEPA 1999: not listed
Japan CSCL/PRTR:	not listed, Japan PDSCL: not listed	
Japan ISHL:	not listed	
South Korea TCCA:	not listed	
LD50 <sub>orl rat</sub> :	497 mg/kg	

Chemical:	<i>potassium dihydrogen phosphate</i>	CAS No.: 7778-77-0
TSCA Inventory:	listed	
Korea Exist.Chem.Inventory:	KE-28622	
LD50 <sub>orl rat</sub> :	4640 mg/kg	
LD50 <sub>drm rbt</sub> :	>4640 mg/kg	

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## SECTION 12: Ecological information

### 12.1 Toxicity

Following information is valid for pure substances.

#### Powder Pillow free Chlorine

Chemical:	<i>boric acid</i>	CAS No.:	10043-35-3
PNEC <sub>(fresh water)</sub> :	2.9 mg/L		
PNEC = Predicted No Effect Concentration			
LC50 <sub>fish/96h</sub> :	[4d] 79.7 mg/L		
EC50 <sub>daphnia/48h</sub> :	91-165 mg/L		
IC50 <sub>scenedesmus quadricauda/72h</sub> :	[72h] 52.4 mg/L		
EC10 <sub>pseudomonas putita/16h</sub> :	[EC10] 10 mg/L		
Water hazard class (DE):	1	WGK No.:	0315
Dispersion coefficient <sub>(octanol-water)</sub> :	-1.09		
Storage class (VCI):	6.1 D		

Chemical:	<i>ethylendinitrilo tetraacetic acid (EDTA)</i>	CAS No.:	60-00-4
PNEC <sub>(fresh water)</sub> :	2.2 mg/L		
PNEC = Predicted No Effect Concentration			
LC50 <sub>daphnia magna/48h</sub> :	[48h] 140 mg/L		
LC50 <sub>fish/96h</sub> :	[4d] 41-1592 mg/L		
EC50 <sub>daphnia/48h</sub> :	[24h] 480-790 mg/L		
EC10 <sub>pseudomonas putita/16h</sub> :	[72h] 2.77-1000 mg/L		
Water hazard class (DE):	2		
Dispersion coefficient <sub>(octanol-water)</sub> :	-5.01-0.13		
Storage class (VCI):	12-13		

Chemical:	<i>tri-sodium citrate</i>	CAS No.:	6132-04-3
LC50 <sub>fish/96h</sub> :	18-32 g/L		
EC50 <sub>daphnia/48h</sub> :	5.6-10 g/L		
EC50 <sub>chlorella vulgaris/5d</sub> :	>18-32 g/L		
EC10 <sub>pseudomonas putita/16h</sub> :	EC50 <sub>ps. fluorescens/8h</sub> : >1.8-3.2 g/L		
Water hazard class (DE):	1		
Storage class (VCI):	12-13		

Chemical:	<i>N,N-Diethyl-1,4-phenylene diammonium sulfate</i>	CAS No.:	6283-63-2
Water hazard class (DE):	3		
Storage class (VCI):	12-13		

Chemical:	<i>potassium dihydrogen phosphate</i>	CAS No.:	7778-77-0
LC50 <sub>leuciscus idus/96h</sub> :	900 <sub>48h</sub> mg/L		
Water hazard class (DE):	1		
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

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## SECTION 13: Disposal considerations

Not 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 / Gefahrstoffverordnung - 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

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## 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

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, 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  
 Regulation 1480/2018/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 03/2019  
 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