## CHEREY-NAGE



## **Safety Data Sheet**

## according to Regulations REACh 1907/2006/EC

REF: 936223 VISOCOLOR PP Sulfate Page: 1/10 Printing date: 27.09.2023 Date of issue: 29.09.2022 Version: 2.2.2.2

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

#### 1.1 **Product identifier**

REF 936223

Product name VISOCOLOR PP Sulfate

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.

101 x 150 mg Powder Pillow Sulfat UFI: U8SW-03XK-220G-DXYH

#### 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 Valencienner Str. 11, 52355 Düren, Germany

Phone: +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 mbH + CO KG
DE: Gemeinsames Giftinformationszentrum (GGIZ)
99089 Erfurt tel. +49 361 730 730. <a href="https://www.content.com/htms://www.content.com Schoemperlenstr. 3-5 <a href="http://www.mn-net.com/sps="http://www.m

You find our current versions of SDS in Internet:

sicherheit@carlroth.de

### **SECTION 2: Hazard identification**

#### 2.0 Classification of the complete product according to Regulation (EC) 1272/2008







GHS07

GHS08 GHS09

WARNING Signal word

Hazard identification	Hazard classes/categories
H302	Acute Tox. 4 oral
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H373	STOT RE 2
H410	Aquatic Chronic 1

#### Classification of the substance or mixture according to Regulation (EC) 1272/2008 2.1

150 mg Powder Pillow Sulfat







GHS08



MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11 52355 Düren · Germany

www.mn-net.com

DE Tel.: +49 24 21 969-0 info@mn-net.com CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com

FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com US Tel.: +1 888 321 62 24 sales-us@mn-net.com

Software: M2 V 6.1.4.2

## CHEREY-NAGEI



# **Safety Data Sheet**

## according to Regulations REACh 1907/2006/EC

REF: 936223 VISOCOLOR PP Sulfate Page: 2/10 Date of issue: 29.09.2022 Printing date: 27.09.2023 Version: 2.2.2.2

Signal word			WARNING		
_					

Hazard identification	Hazard classes/categories	
H302	Acute Tox. 4 oral	
H315	Skin Irrit. 2	
H319	Eye Irrit. 2	
H373	STOT RE 2	
H410	Aquatic Chronic 1	

List of H phrases: see section 16.2

#### 2.2 Label elements according regulation (EC) 1272/2008

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). 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).

### 150 mg Powder Pillow Sulfat







Signal word: WARNING

Label elements of the complete product







GHS07

GHS08 **GHS09** 

Signal word: WARNING

#### 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 oral intake, impairments of health when ingested in small quantities.

Information pertaining to particular risks to the environment

### Possible endocrine disrupting effects

no data available

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

#### 3.1 Substances or 3.2 Mixtures

### 150 mg Powder Pillow Sulfat

Substance name: ethylendinitrilo tetraacetic acid, di Na-salt (EDTA-Na)

CAS No .: 6381-92-6

H332, Acute Tox. 4 inh., H373, resp. irrit. STOT SE 3 Substance rating:

Formula: C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> Na <sub>2</sub> O <sub>8</sub> • 2 H <sub>2</sub> O

Pseudonym (de): Titriplex® III EC No.: 205-358-3 Concentration: 20 - <30 % H373, STOT RE 2 acc. CLP (GHS):



MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11

52355 Düren · Germany www.mn-net.com

DE Tel.: +49 24 21 969-0 info@mn-net.com CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com

FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com US Tel.: +1 888 321 62 24 sales-us@mn-net.com

## CHEREY-NAGEL



## **Safety Data Sheet**

## according to Regulations REACh 1907/2006/EC

REF: 936223 VISOCOLOR PP Sulfate Page: 3/10 Printing date: 27.09.2023 Date of issue: 29.09.2022 Version: 2.2.2.2

> Substance name: barium chloride 10361-37-2 CAS No.:

Substance rating: H301, Acute Tox. 3 oral, H332, Acute Tox. 4 inh.

Formula: BaCl<sub>2</sub>

Pseudonym (de): Bariumdichlorid, Chlorbarium REACH Reg. No.: 01-2119502547-42-xxxx

EC No.: 233-788-1 Indice No.: 056-004-00-8 Concentration: 10 - <20 % Correlation factor: x 0.66 (= %Ba)
The classification refers to the weight percentage of the metal (according to CLP regulation 2008/1272/EG Annex VI, 1.1.3.2 Note 1)

acc. CLP (GHS): H302, Acute Tox. 4 oral

Substance name: hexadecyl-trimethylammonium bromide

CAS No .:

Substance rating: H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2, H410, Aquatic Chronic 2

Formula: C <sub>19</sub> H <sub>42</sub> BrN

EC No.: 264-151-6 Indice No.: 612-140-00-5

Concentration: 50 - <75 %

acc. CLP (GHS): H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2, H410, Aquatic Chronic 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 16.2.

### **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.

#### 4.1.1 **After SKIN Contact**

Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use soap

#### 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).

#### 4.1.3 After INHALATION of vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. ---

#### 414 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

#### 5.1.1 Suitable 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. 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.

#### 5.1.2 Unsuitable extinguishing media

no data available



Software: M2 V 6.1.4.2

MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11

52355 Düren · Germany www.mn-net.com

DE Tel.: +49 24 21 969-0 info@mn-net.com

CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com

US Tel.: +1 888 321 62 24 sales-us@mn-net.com

## CHEREY-NAGEI



## **Safety Data Sheet**

## according to Regulations REACh 1907/2006/EC

REF: 936223 VISOCOLOR PP Sulfate Page: 4/10 Printing date: 27.09.2023 Date of issue: 29.09.2022 Version: 2.2.2.2

#### 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.

#### Additional information 5.4

### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Regular staff training is necessary.

#### 6.2 **Environmental precautions**

not necessary, contains only small amounts of these substances

#### 6.3 Methods and material for containment and cleaning up

Bind any escaping liquid with inert absorbent. Collect small amounts of leaked liquid and flush with water into drains.

#### 64 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

Safe storage is guaranteed in the original packaging. Storage class (German chemical industry): see chapter 12.1 Storage class (VCI): 6 1B

3

Water hazard class (DE):

#### Requirements for stock rooms and containers 7.2.1

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

### 150 mg Powder Pillow Sulfat

Chemical: ethylendinitrilo tetraacetic acid, di Na-salt (EDTA-Na) CAS No.: 6381-92-6

[inh] 1.5 mg/m³ DNEL = Derived No-Effect Level (for workers) DNFI ·

PNEC (fresh water): 2.2 mg/L PNEC = Predicted No Effected Concentration

CAS No.: 10361-37-2 Chemical: barium chloride

FU value: 0.5 Ba e mg/m<sup>3</sup> TRGS 900 (DE): 0,5 Ba E mg/m<sup>3</sup> E/e respirable

Short-term exposure factor: 1(1)

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 0,5 e mg/m<sup>3</sup> NIOSH:

l: TWA 0.5 Ba mg/m³
[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: TWA 0.5 Ba mg/m<sup>3</sup>

hexadecyl-trimethylammonium bromide CAS No.: 57-09-0 Chemical:



Software: M2 V 6.1.4.2

MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11

52355 Düren · Germany www.mn-net.com

DE Tel.: +49 24 21 969-0 info@mn-net.com CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com

FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com US Tel.: +1 888 321 62 24 sales-us@mn-net.com

## CHEREY-NAGEL



## **Safety Data Sheet**

## according to Regulations REACh 1907/2006/EC

REF: 936223 VISOCOLOR PP Sulfate Page: 5/10 Printing date: 27.09.2023 Date of issue: 29.09.2022 Version: 2.2.2.2

#### 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 Respiratory protection

No additional recommendations.

#### 8.2.2 Skin protection / Hand protection

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 Eve / Face Protection

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

#### 8.2.4 Skin protection

Not necessary

#### 8.2.5 Personal hygiene

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.

solid

#### 8.2.6 Thermal hazards

no data available

#### 8.3 Limitation and monitoring of environmental exposure

Do not release product into environment.

## **SECTION 9: Physical and chemical properties**

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

### 150 mg Powder Pillow Sulfat

a) State of aggregation: b) Colour: c) Odor: d) Melting point: no data available e) Boiling point: no data available f) Flammability: no data available g) Explosive limits (lower / upper): no data available h) Flash point: no data available i) Flashing temperature: no data available j) Decomposition temperature: no data available k) pH value: no data available I) Kinematic viscosity: no data available m) Solubility in water: no data available n) Dispersion coefficient (o/w): no data available

o) Vapour pressure (20°C): p) Specific gravity:

no data available no data available

### q) Relative vapour density (air=1): r) Particle size:

no data available no data available

#### 9.2 Other information

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required. Properties relevant to substance groups

### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

no further data available.

#### 10.2 Chemical stability

no known instability.



MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11

52355 Düren · Germany www.mn-net.com

DE Tel.: +49 24 21 969-0 info@mn-net.com

CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com

US Tel.: +1 888 321 62 24 sales-us@mn-net.com

## CHEREY-NAGE



## **Safety Data Sheet**

## according to Regulations REACh 1907/2006/EC

REF: 936223 VISOCOLOR PP Sulfate Page: 6/10 Printing date: 27.09.2023 Date of issue: 29.09.2022 Version: 2.2.2.2

#### 10.3 Possibility of hazardous reactions

No further data available.

#### 10.4 Conditions to avoid

#### 10.5 Incompatible materials

no additional data available

#### 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 the hazard classes according regulation (EC) 1272/2008

Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.

150 mg Powder Pillow Sulfat

ethylendinitrilo tetraacetic acid, di Na-salt (EDTA-Na) CAS No.: 6381-92-6 Chemical:

TSCA Inventory: listed (CAS 139-33-3)

LD50 orl rat: 2800 mg/kg

Chronic Effects: May cause damage to organs through prolonged or repeated exposure.

Chemical: barium chloride CAS No.: 10361-37-2

TSCA Inventory:

inhalation, ingestion, skin and/or eye contact **Exposure Routes:** 

Target Organs: Eyes, skin, respiratory system, heart, central nervous system

irritation eyes, skin, upper respiratory system; skin burns; gastroenteritis; muscle spasm; slow pulse, Symptoms:

extrasystoles; hypokalemia

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

Japan ISHL: listed ≥1,0%/≥1,0% Korea Exist.Chem.Inventory: KE-02037 LD50 orl rat: 118 mg/kg

11,4 mg/kg LC\_Low orl hmn Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

Chemical: hexadecyl-trimethylammonium bromide CAS No.: 57-09-0

TSCA Inventory listed

Korea Exist.Chem.Inventory: KE-34534, Toxic 2000-1-509

LD50 orl rat: 410 mg/kg

Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

#### 11.2 Other hazards

### Possible endocrine disrupting effects

no data available

### Other information

no additional data available

## **SECTION 12: Ecological information**

#### 12.1 **Toxicity**

Following information is valid for pure substances.

150 mg Powder Pillow Sulfat

ethylendinitrilo tetraacetic acid, di Na-salt (EDTA-Na) CAS No.: 6381-92-6 Chemical:

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 2.2 mg/L

LC50 fish/96h: [4d] 41-1592 mg/L EC50 daphnia/48h: 140 mg/L

[72h] 2.77-1000 mg/L IC50 scenedesmus quadricauda/72h: EC10 pseudomonas putita/16h: [EC10, 30h] 500 mg/L

Water hazard class (DE): Dispersion coefficient (o/w): -4,3Storage class (VCI): 12-13



Software: M2 V 6.1.4.2

MACHEREY-NAGEL GmbH & Co. KG

Valencienner Str. 11 52355 Düren · Germany www.mn-net.com

DE Tel.: +49 24 21 969-0 info@mn-net.com CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com US Tel.: +1 888 321 62 24 sales-us@mn-net.com

## **MACHEREY-NAGEL**



## **Safety Data Sheet**

## according to Regulations REACh 1907/2006/EC

 REF: 936223
 VISOCOLOR PP Sulfate
 Page: 7/10

 Printing date: 27.09.2023
 Date of issue: 29.09.2022
 Version: 2.2.2.2

Chemical: barium chloride CAS No.: 10361-37-2

LC50 leuciscus idus/96h : 870 mg/L EC50 daphnia/48h : 21.9 mg/L

Water hazard class (DE): 1 WGK No.: 0025

Storage class (VCI): 6.1 B

Chemical: hexadecyl-trimethylammonium bromide CAS No.: 57-09-0 Very toxic to aquatic life with long lasting effects. Avoid contact of substance/mixture to environment. Environmental hazards must not be labelled with H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).

Water hazard class (DE): 3
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

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

### 12.6 Endocrine disrupting properties

no data available

### 12.7 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

Normally it is possible to empty small amounts (diluted!) into drains.

### **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, contains only small amounts of these substances

### 14.6 Special precautions for user

not necessary

### 14.7 Carriage in bulk by sea in accordance with IMO instruments

Not applicable.

## **SECTION 15: Regulatory information**

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Dangerous Substances Protection Act (DE: Chemikaliengesetz - ChemG), Aug 2013, Stand: Okt 2020

Ordinance on protection against dangerous substances (E: Gefahrstoffverordnung - GefStoffv), Nov 2010, Stand: Mrz 2017

TRGS 201, Classification and labeling of activities involving hazardous substances, Feb 2017

TRGS 220, National aspects when preparing safety data sheets, Jan 2017

TRGS 400, Risk assessment for activities involving hazardous substances, Jul 2017

BekGS 408, Application of the GefStoffV and the TRGS with the entry into force of the CLP regulation, December 2009, status: Jan 2012

Wasserhaushaltsgesetz - WHG, Section 3 Handling substances hazardous to water, Jul 2009, status: Aug 2016

MN leaflet/instructions for use, also at www.mn-net.com

If necessary, observe other country-specific regulations.



MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11

52355 Düren · Germany www.mn-net.com DE Tel.: +49 24 21 969-0 info@mn-net.com

CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com
FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com

US Tel.: +1 888 321 62 24 sales-us@mn-net.com

## **MACHEREY-NAGEL**



## Safety Data Sheet

## according to Regulations REACh 1907/2006/EC

Page: 8/10 REF: 936223 VISOCOLOR PP Sulfate Printing date: 27.09.2023 Date of issue: 29.09.2022 Version: 2.2.2.2

#### 15.2 Chemical safety assessment

not necessary for these small amounts

## **SECTION 16: Other information**

#### 16.1 Changes compared to the last version

in preparation

#### 16.2 List of H and P phrases

#### 16.2.1 List of relevant H phrases

Harmful if swallowed. Causes skin irritation. H315 Causes serious eye irritation. H319

May cause damage to organs through prolonged or repeated exposure. H373

H410 Very toxic to aquatic life with long lasting effects.

#### 16.2.2 List of relevant P phrases

#### 16.3 Recommended restriction on use

Only for professional user.

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

#### 16.4 Sources of key data

KÜHN, BIRETT, Leaflets on hazardous materials, 2021

Directive 1999/92/EG Minimum requirements to improve the safety and health protection of workers at risk from potentially explosive

SUVA .CH, limit values in the air at work 2009, revised on 01/2009

Regulation 790/2009/EU, adaptation of Regulation 1272/2008/EU to technical and scientific progress (1st ATP)

Regulation 453/2010/EU, adaptation of the REACH regulation 1907/2006/EG

Regulation 487/2013/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (4th ATP) Regulation 1221/2015/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (7th ATP) Regulation 776/2017/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (10th ATP)

Regulation 669/2018/EU, adaptation of Regulation 1272/2008/EC to technical and scientific progressText (11th ATP) Regulation 1480/2018/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (13th ATP) Regulation 521/2019/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (12th ATP)

TRGS 900, German rules of technology on limit values in the air at work, as of 03/2019

Regulation 217/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (14th ATP) Regulation 878/2020/EU, adaptation of Annex II of the REACH regulation 1207/2006/EG

Regulation 1182/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (15th ATP) Regulation 643/2021/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (16th ATP) Regulation 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP) Regulation 692/2022/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (18th ATP)

### revisions/updates

Reason for revision: 2014-02 Corrected structure of the sections according to Regulation 453/2010/EU, if necessary

2014-04 adjustment according Regulation 487/2013/EU 2016-03 adjustment according Regulation 1221/2015/EU

2017-11 adjustment according the ECHA registration dossier 2022-11 adjustment according Regulation 878/2020/EU

#### 16.5 **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.

MACHEREY-NAGEL GmbH & Co. KG makes NO REPRESENTATIONS or WARRANTIES, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly MACHEREY-NAGEL GmbH & Co. KG will not be responsible for damages resulting from use of or reliance upon this information. See terms and conditions at the end of our price lists for additional information.

#### 16.6 Legend / Abbreviations

acc: according

ADR: Convention concerning the International Carriage of Dangerous Goods by Road

Act:

BAT: biological workplace tolerance value

Cargo Aircraft Only CAO:



MACHEREY-NAGEL GmbH & Co. KG

Valencienner Str. 11 52355 Düren · Germany www.mn-net.com

DE Tel.: +49 24 21 969-0 info@mn-net.com CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com

US Tel.: +1 888 321 62 24 sales-us@mn-net.com

## **MACHEREY-NAGEL**



## **Safety Data Sheet**

## according to Regulations REACh 1907/2006/EC

 REF: 936223
 VISOCOLOR PP Sulfate
 Page: 9/10

 Printing date: 27.09.2023
 Date of issue: 29.09.2022
 Version: 2.2.2.2

Carc: carcinogen

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging regulation

CMR: carcinogen, mutagen, reproduction toxic

Corr: corrosive

COD: chemical oxigen demand

CSCL: Chemical Substance Control Law (Jp)

Dam: damage

DNEL: Derived No-Effect Level (for workers)

derm: dermal dog: dog

EC10: Concentration causing a toxic effect in 10% of the test organisms

EC: European Community

EC-Nr: Substance number of the EC substance inventory EmS: Guide to accident management measures on ships

EU: European Union fish: fish (not spezified)

GHS: Global Harmonized System of Classification and Labeling of Chemicals

gpg: guinea pig

ICAO: International Civil Aviation Organization

ihl: inhaled

IMDG: International Maritime Dangerous Goods Code

intrav: intravenous ipt: intraperitonaeal

ISHL: Industrial Safety and Health Law (Jp)

LC50: letale concentration 50%

LD50: letale dosis 50%

leuciscus idus: fisch, ide, orfe
MAK: maximum workplace concentration

Met: Metall mus: mouse Muta: mutagen

NIOSH: National Institute for Occupational Safety and Health (US)

NRD: Non-rapidly degradable

onchorhynchus mykiss: fish, rainbow trout

orl: oral

OSHA: Occupational Safety and Health Administration PAX: transport on passenger planes allowed PBT: persistent, bioaccumulating, toxic substance

pH: pH value

pimephales promelas: fish, fathead minnow PNEC: Predicted No Effected Concentration PROC 15: Process category 'for laboratory use'

PRTR: Law for PRTR and Promotion of Chemical Management (Jp)

PVC: polyvinyl chloride quail: bird, quail rat: rat rbt: rabbit

RD: rapidly degradable

RE: repeated

REACh: Registration, Evaluation, Authorisation and Restriction of Chemicals

REF: item number, reference number Reg.No.: rRegistration number

Regr. harmful to reproduction

Resp: respiratory

RIP: REACH Implementations Projects

scu: sub cutan
SDS: safety data sheet
Sens: sensitisation

STEL: short term exposure limit
STOT: Specific Target Organ Toxicity
SVHC: Substance of Very High Concern

t/a: tons per year

TCCA: Toxic Chemicals Control Act (S. Korea)

Tox: toxic

TSCA: The Toxic Substances Control Act (US)

TWA: time weighted average TRGS: technical regulations (DE)

vPvB: very persistent, very bioaccumulating substance



MACHEREY-NAGEL GmbH & Co. KG

Valencienner Str. 11 52355 Düren · Germany www.mn-net.com DE Tel.: +49 24 21 969-0 info@mn-net.com
CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com
FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com
US Tel.: +1 888 321 62 24 sales-us@mn-net.com



# **Safety Data Sheet**

## according to Regulations REACh 1907/2006/EC

REF: 936223 VISOCOLOR PP Sulfate Page: 10/10 Printing date: 27.09.2023 Date of issue: 29.09.2022 Version: 2.2.2.2

#### 16.7 **Training advice**

Regular safety training. 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.

MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11 52355 Düren · Germany

www.mn-net.com

DE Tel.: +49 24 21 969-0 info@mn-net.com CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com

US Tel.: +1 888 321 62 24 sales-us@mn-net.com