

Safety Data Sheet

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

NANOCOLOR Chlorine Page: 1/9

Printing date: 02.06.2020 Date of issue: 26.07.2018

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

1.1 **Product identifier**

REF 91816

Product name NANOCOLOR Chlorine

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 100 mL Chlorine R1 1 x 20 g Chlorine-2 1 x 20 mL Chlorine-3

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

Information not necessary.

You find our current versions of SDS (22 languages) in Internet:

http://www.mn-net.com/SDS

SECTION 2: Hazard identification

2.0 Classification of the complete product

2.1 Classification of the substance or mixture

100 mL Chlorine R1

Do not need labelling as hazardous

Signal word

No hazard class

20 g Chlorine-2

Do not need labelling as hazardous

Signal word

No hazard class

20 mL Chlorine-3

Do not need labelling as hazardous

Signal word

No hazard class

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Safety Data Sheet

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

NANOCOLOR Chlorine Page: 2/9 Printing date: 02.06.2020 Date of issue: 26.07.2018

2.2 Label elements

100 mL Chlorine R1

Do not need labelling as hazardous Signal word: -

20 g Chlorine-2

Do not need labelling as hazardous Signal word: -

20 mL Chlorine-3

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 Chlorine R1

phosphate buffer solution Chemical:

Classification: No criteria for classification or naming of chemical not required.

K/Na₁₋₃ H₂₋₀ PO₄ • x H₂ O Formula: TSCA Inventory: all listed

KE No.: listed Concentration: 1 - < 5 %

acc. CLP (GHS): The criteria for classification are not fulfilled.

20 g Chlorine-2

Chemical: CAS No.: 10043-35-3 boric acid

CAS No .: -

US:

Classification: H360FD, Repr. 1B Formula:

H₃BO₃ TSCA Inventory: listed

REACH Reg. No.: 01-2119486683-25-0024

SVHC listed: listed (18/06/2010)

EC No.: 233-139-2 005-007-00-2 Indice No.: RTECS: ED4550000 MFCD: 00011337 KE-03499 KF No ·

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

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IACHEREY-NAGEL



CAS No.: 6132-04-3

00011405

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Safety Data Sheet

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

NANOCOLOR Chlorine Page: 3/9

Printing date: 02.06.2020 Date of issue: 26.07.2018

> Chemical: tri-sodium citrate

Classification: No criteria for classification or naming of chemical not required.

Formula: C₆ H₅ Na₃ O₇ •2H₂ O TSCA Inventory: listed (CAS 68-04-2) REACH Reg. No.: 01-2119457027-40-xxxx

EC No.: 200-675-3 RTFCS GE8300000 KE-20843 KE No .: Concentration: 40 - <60 %

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: C₁₀ H₁₆ N₂ •H₂ O

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 SS9625000 00012993 RTECS: MECD:

Concentration: 1 - < 5 %

acc. CLP (GHS): The criteria for classification are not fulfilled

potassium dihydrogen phosphate CAS No.: 7778-77-0 Chemical:

Classification: No criteria for classification or naming of chemical not required. $KH_2 \ PO_4$

Formula: TSCA Inventory: listed

REACH Reg. No.: 01-2119490224-41-XXXX

EC No.: 231-913-4

RTECS: TC6615500 MFCD: 00011401

KE-28622 KE No.: Concentration: 5 - < 25 %

acc. CLP (GHS): The criteria for classification are not fulfilled

20 mL Chlorine-3

potassium iodide Chemical: CAS No.: 7681-11-0

Classification: H319, Eye Irrit. 2 Formula: ΚI

TSCA Inventory: listed YES, confidential REACH Reg. No.:

EC No.: 231-659-4 RTECS: TT29750000 MFCD:

KE No.: not listed Concentration: 1 - < 10 %

acc. CLP (GHS): The criteria for classification are not fulfilled.

3.3 Remarks

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

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. ---

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Safety Data Sheet

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NANOCOLOR Chlorine Page: 4/9 Printing date: 02.06.2020 Date of issue: 26.07.2018

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): 6.1D

Water hazard class (DE):

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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

100 mL Chlorine R1

Chemical: phosphate buffer solution CAS No .: -

20 g Chlorine-2

Chemical: boric acid

[derm] 392 mg/kg bw/day; [inh] 8.3 mg/m³

DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 2.9 mg/L PNEC = Predicted No Effected Concentration 0.5 E mg/m³ TRGS 900 (DE):

Short-term exposure factor: 2 (I), Y

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CAS No.: 10043-35-3

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Safety Data Sheet

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REF: 91816 NANOCOLOR Chlorine Page: 5/9

Printing date: 02.06.2020 Date of issue: 26.07.2018

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/m³

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

CAS No.: 6132-04-3 Chemical: tri-sodium citrate

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

20 mL Chlorine-3

Chemical: potassium iodide CAS No.: 7681-11-0

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

100 ml Chlorine R1

Colour: colourless Appearance: liquid Odor: odorless

6-7 Specific gravity: 1,02 g/cm³ Solubility in water: 0-100 %

20 g Chlorine-2

Odor: odorless Appearance: powder (solid) Colour colourless

pH:

Solubility in water: 0-5 %

20 mL Chlorine-3

Appearance: liquid Colour: colourless Odor: alcoholic

24 °C Flash point: Specific gravity: 0,93 g/cm³ Solubility in water: 0-100 %

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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Safety Data Sheet

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

NANOCOLOR Chlorine Page: 6/9

Printing date: 02.06.2020 Date of issue: 26.07.2018

SECTION 10: Stability and reactivity

10.1 Reactivity

None

10.2 Chemical stability

No known instability.

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid

Not known. Observe labeled storage temperature. ---

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.

100 mL Chlorine R1

phosphate buffer solution Chemical: CAS No .: -

TSCA Inventory: all listed Korea Exist.Chem.Inventory: listed

20 g Chlorine-2

Chemical: boric acid CAS No.: 10043-35-3

TSCA Inventory California Proposition 65 List: not listed listed Australia NICNAS: Canada CEPA 1999: DSL yes not listed

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 >3765 mg/kg LD50_{orl rat}: LC50_{ihl rat}: > 2 mg/m³ LD50_{drm rat}: >2000 mg/kg

EU carcinogen: R_D 1B, R_F 1B TRGS 905 (DE): R_E 2, R_F 2

tri-sodium citrate CAS No.: 6132-04-3 Chemical:

listed (CAS 68-04-2) TSCA Inventory: Korea Exist.Chem.Inventory: KE-20843

LD50_{orl rat}: >8000 mg/kg

Chemical: N,N-Diethyl-1,4-phenylene diammonium sulfate CAS No.: 6283-63-2

listed (CAS 6065-27-6)California Proposition 65 List: not listed TSCA Inventory: 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_{orl rat}: 497 mg/kg

Chemical: potassium dihydrogen phosphate CAS No.: 7778-77-0

TSCA Inventory: listed Korea Exist.Chem.Inventory: KE-28622 LD50_{orl rat}: 4640 mg/kg LD50_{drm rbt}: >4640 mg/kg

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REF: 91816 NANOCOLOR Chlorine Page: 7/9

Printing date: 02.06.2020 Date of issue: 26.07.2018

20 mL Chlorine-3

potassium iodide Chemical: CAS No.: 7681-11-0

TSCA Inventory: listed Korea Exist.Chem.Inventory: not listed LD50_{orl rat}: 2779 mg/kg

SECTION 12: Ecological information

12.1 **Toxicity**

Following information is valid for pure substances.

100 mL Chlorine R1

Chemical: phosphate buffer solution CAS No .: -

Water hazard class (DE): Storage class (VCI): 12

20 g Chlorine-2

Chemical: boric acid CAS No.: 10043-35-3

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 2.9 mg/L

LC50_{fish/96h}: [4d] 79.7 mg/L EC50_{daphnia/48h}: 91-165 mg/L IC50_{scenedesmus} quadricauda/72h: [72h] 52.4 mg/L EC10_{pseudomonas putita/16h}: [EC10] 10 mg/L

Water hazard class (DE): WGK No.: 0315

Dispersion coefficient_(octanol-water): -1.09 Storage class (VCI): 6.1 D

Chemical: CAS No.: 6132-04-3 tri-sodium citrate

LC50_{fish/96h}: 18-32 g/L EC50_{daphnia/48h}: 5.6-10 g/L >18-32 g/L EC50_{chlorella vulgaris/5d}:

EC10pseudomonas putita/16h: EC50_{ps. fluorescens/8h}: >1.8-3.2 g/L

Water hazard class (DE): Storage class (VCI): 12-13

Chemical: N,N-Diethyl-1,4-phenylene diammonium sulfate CAS No.: 6283-63-2

Water hazard class (DE):

12-13 Storage class (VCI):

Chemical: potassium dihydrogen phosphate CAS No.: 7778-77-0

900_{48h} mg/L

LC50_{leuciscus} idus/96h : Water hazard class (DE): Storage class (VCI): 12-13

20 mL Chlorine-3

CAS No.: 7681-11-0 Chemical: potassium iodide

LC50_{fish/96h}: 2190 mg/L Water hazard class (DE): Dispersion coefficient_(octanol-water): 0.04 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

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Safety Data Sheet

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NANOCOLOR Chlorine Page: 8/9 Printing date: 02.06.2020 Date of issue: 26.07.2018

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no additional data available

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. Not for mercury containing test solutions, please collect for disposal of hazardous waste.

SECTION 14: Transport information

14.1 - 14.4 Not necessary

14.5 **Environmental hazards**

14.6 Special precautions for user

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

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

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, 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

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 REF: 91816
 NANOCOLOR Chlorine
 Page: 9/9

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 Date of issue: 26.07.2018

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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