

Safety Data Sheet

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

VISOCOLOR ECO Chlorine 2, free,total, refill Page: 1/9

Printing date: 12.05.2021 Date of issue: 13.01.2021

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

1.1 **Product identifier**

REF 931215

Product name VISOCOLOR ECO Chlorine 2, free,total, refill

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 30 mL Cl₂-3 1 x 25 mL Cl₂-2 1 x 18 mL Cl₂ -1

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

Tel.: +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. DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 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



GHS07

Signal word WARNING

Hazard identification Hazard classes/categories

H315 Skin Irrit. 2 H319 Eye Irrit. 2

2.1 Classification of the substance or mixture

30 mL Cl₂-3

Do not need labelling as hazardous

Signal word

No hazard class

25 mL Cl₂-2

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Signal word WARNING

Hazard identification Hazard classes/categories

H315 Skin Irrit. 2 H319 Eye Irrit. 2

18 mL Cl₂ -1

Do not need labelling as hazardous

Signal word

No hazard class

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).

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).

30 mL Cl2 -3

Do not need labelling as hazardous Signal word: -

25 mL Cl₂-2



Signal word: WARNING

18 mL Cl₂ -1

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

30 mL Cl₂ -3

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MACHEREY-NAGEL



CAS No.: 7681-11-0

CAS No .: -

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> Chemical: potassium iodide Classification: H319, Eye Irrit. 2

Formula: ΚI

TSCA Inventory: listed

REACH Reg. No.: YES, confidential

EC No.: 231-659-4

TT29750000 MFCD: 00011405 RTFCS

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

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

Chemical: CAS No.: 7732-18-5 water

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

Formula: TSCA Inventory: listed

REACH Reg. No.: exempt, Annex IV EC No.: 231-791-2 RTFCS ZC0110000 KE No .: KE-35400 Concentration: 90 - <100 %

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

25 mL Cl₂ -2

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.: 228-500-6 612-080-00-X RTECS: SS9625000 MFCD: 00012993

Concentration: 01-<1%

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

Chemical: CAS No.: 7664-93-9

Classification: H314, Skin Corr. 1B H₂ SO₄ (•H₂ O) Formula:

TSCA Inventory: listed

REACH Reg. No.: 01-2119458838-20-xxxx

EC No.: 231-639-5 Indice No.: 016-020-00-8

RTECS: WS5600000

KE No.: KE-32570, >10% Toxic 97-1-405, Acc. Precaution Chem.

Concentration: 5 - < 15 %

acc. CLP (GHS): H315, Skin Irrit. 2, H319, Eye Irrit. 2

18 mL Cl₂ -1

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 KF No . listed Concentration: 50 - < 75 %

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

3.3

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

List of H and P phrases: see section 16.1

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.

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4.1.1 **After SKIN Contact**

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

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).

After INHALATION of vapours 4.1.3

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

After ORAL Intake 4.1.4

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

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

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.

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): 8B 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.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

30 mL Cl₂ -3

Chemical: potassium iodide CAS No.: 7681-11-0 Chemical: CAS No.: 7732-18-5 water

25 mL Cl₂ -2

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

NIOSH:

l: 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:

Chemical: CAS No.: 7664-93-9 sulfuric acid

[inh] 50 µg/m³ DNEL: DNEL = Derived No-Effect Level (for workers) $\begin{array}{cc} PNEC_{(fresh\ water)} : & 2.5\ \mu g/L \\ PNEC = Predicted\ No\ Effected\ Concentration \end{array}$ EU value: 0.1 e mg/m³

0.1 E mg/m³ E/e respirable TRGS 900 (DE):

Short-term exposure factor: 1 (I), Y

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

SUVA(CH) MAK value: 0,1 e mg/m³

: NTP Report on Carcinogens (RoC) List Yes (Known to be a human carcinogen); [TWA] 1 mg/m³ [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period NIOSH:

OSHA: [TWA] 1 mg/m³

18 mL Cl₂ -1

Chemical: phosphate buffer solution CAS No .: -

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 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

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

8.2.4 Skin protection

Not necessary.

8.2.5

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

30 mL Cl₂ -3

Appearance: liquid Colour: colourless Odor: odorless

Flash point: N/A Specific gravity: 1.0 g/cm³

25 mL Cl₂ -2

Appearance: liquid Colour: rose Odor: odorless

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> pH: 0-1 Specific gravity: 1,1 g/cm³

18 mL Cl₂ -1

Appearance: liquid Colour: colourless Odor: odorless

Specific gravity: 1,2 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**

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

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.

30 mL Cl₂ -3

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

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

Chemical: water CAS No.: 7732-18-5

TSCA Inventory: listed Korea Exist.Chem.Inventory: KE-35400

25 mL Cl₂ -2

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

CAS No.: 7664-93-9 Chemical: sulfuric acid

TSCA Inventory: listed California Proposition 65 List: not listed

ACGIH: 1 ppm

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

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> Target Organs: Eyes, skin, respiratory system, teeth

irritation eyes, skin, nose, throat; pulmonary edema, bronchitis; emphysema; conjunctivitis; stomatis; Symptoms:

dental erosion; eye, skin burns; dermatitis

Australia NICNAS: Canada CEPA 1999: DSL Yes not listed

Japan CSCL/PRTR: not listed, Japan PDSCL: Deleterious Substance Japan ISHL: listed ≥1,0%/≥1,0%, Article 57-2 (SDS required)

South Korea TCCA: Accident Precaution Chemical Yes KE-32570, >10% Toxic 97-1-405, Acc. Precaution Chem.

Korea Exist.Chem.Inventory: 2140 mg/kg LD50_{orl rat}:

LC50_{ihl rat}: [8h] 600/ [4h] 850 mg/m³

TRGS 905 (DE): Kat 4

18 mL Cl₂ -1

CAS No .: -Chemical: phosphate buffer solution

TSCA Inventory: Korea Exist.Chem.Inventory: listed

SECTION 12: Ecological information

12.1 **Toxicity**

Following information is valid for pure substances.

30 mL Cl₂-3

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

 $LC50_{fish/96h}$: 2190 mg/L

Water hazard class (DE): Dispersion coefficient(octanol-water): 0.04 Storage class (VCI):

Chemical: CAS No.: 7732-18-5 water

25 mL Cl₂ -2

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

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

sulfuric acid CAS No.: 7664-93-9 Chemical:

PNEC_(fresh water): PNEC = Predicted No Effected Concentration 2.5 µg/L

LC50_{fish/96h}: [NOEC, 65d] 25 µg/L EC50_{daphnia/48h}: 100 mg/L EC10_{pseudomonas putita/16h}: Water hazard class (DE): [72h] 100 mg/L

WGK No.: 0182

Storage class (VCI): 8 B

18 mL Cl₂ -1

phosphate buffer solution CAS No .: -Chemical:

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

12.2 Persistence and degradability

not necessary

12.3 Bioaccumulative potential

not necessary

12.4 Mobility in soil

not necessary

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12.5 Results of PBT and vPvB assessment

no data available

12.6 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

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

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

List of H and P phrases 16.1

16.1.1 List of relevant H phrases

Causes skin irritation. H319 Causes serious eye irritation.

16.1.2 List of relevant P phrases

P280sh Wear protective gloves/eye protection.

16.2 Training advice

Regular safety training.

Recommended restriction on use 16.3

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 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 SUVA .CH, Limits in air at work 2009, revised on 01.2009 Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

Revisions/Updates

KÜHN, BIRETT

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

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