

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

VISOCOLOR HE Chloride CL 500 Page: 1/11

Date of issue: 14.09.2018 Printing date: 01.10.2019

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

### 1.1 **Product identifier**

REF 915004

Product name VISOCOLOR HE Chloride CL 500

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 10 mL Indicator CL 500 1 x 30 mL Nitric acid 4% 1 x 100 mL TL CL 500

### 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

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









GHS02

GHS05

GHS07 GHS08

Signal word	DANGER
Signal Word	DANGEN

Hazard identification	Hazard classes/categories
H225	Flam. Lig. 2
H290	Met. Corr. 1
H302	Acute Tox. 4 oral
H312	Acute Tox. 4 derm.
H315	Skin Irrit. 2
H318	Eye Dam. 1
H332	Acute Tox. 4 inh.
H373	STOT RE 2
H413	Aguatic Chronic 4

### 2.1 Classification of the substance or mixture

10 mL Indicator CL 500

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US:

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DE/international: CH: FR:

## CHEREY-NAGE



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GHS02

Signal word **DANGER** 

Hazard identification Hazard classes/categories

H225 Flam. Liq. 2

30 mL Nitric acid 4%





Signal word **DANGER** 

**Hazard identification** Hazard classes/categories H290 Met. Corr. 1 H315 Skin Irrit. 2 H318 Eye Dam. 1

100 mL TL CL 500





WARNING Signal word

Hazard identification	Hazard classes/categories
H302	Acute Tox. 4 oral
H312	Acute Tox. 4 derm.
H332	Acute Tox. 4 inh.
H373	STOT RE 2
H413	Aquatic Chronic 4

### 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 and highly flammable chemicals/mixtures must not be labelled with H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).

Metal corrosive solutionsdo not have to be labelled with GHS symbol, signal word, H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2.1.3).

10 mL Indicator CL 500



Signal word: DANGER

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MACHEREY-NAGE (MN)

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany

DE/international: CH: FR:

Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 +1 484 821 1272 E-mail: sales-ch@mn-net.com E-mail: sales-us@mn-net.com

Version: M V 4.10.1 E-mail: info@mn-net.com

E-mail: sales-fr@mn-net.com

US:



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### 30 mL Nitric acid 4%





Signal word: DANGER

H318

Causes serious eye damage.

P280sh, P305+351+338, P310

Wear protective gloves/eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

## 100 mL TL CL 500





GHS07

Signal word: WARNING

#### 2.3 Other hazards

## Possible hazards from physicochemical properties

Generally in the case of pH values are less than 2 or higher than 11.5 then it is corrosive. In the case of pH values are less than 5 or higher than 9 then it is irritant. Flammable properties.

### Information pertaining to particular risks to human and possible symptoms

Causes varying degrees of acid burns on the skin, to the eyes and to the mucous membranes and wounds which do not heal quickly depending on the concentration, temperature and the exposure time. Vapours especially which steam from hot liquids and mist can have a severe irritant effect upon the eyes and the respiratory organs.

Cause after oral intake, inhalation of vapours/dust, impairments of health when ingested in small quantities. Can accumulate within the body.

### Information pertaining to particular risks to the environment

PBT: not applicable vPvRnot applicable

Other hazards

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

### 3.1 Substances or 3.2 Mixtures

### 10 mL Indicator CL 500

Chemical: 1,5-diphenylcarbazone (metal indicator)

H315, Skin Irrit. 2, H319, Eye Irrit. 2 Classification:

Formula: C13 H12 N4 O

Pseudonym: 2-phenyl-, 2-phenylhydrazide diazenecarboxylic acid TSCA Inventory: listed

LQ9420000 RTECS: MFCD: 00003024

0,1 - <1 % Concentration:

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

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CAS No.: 538-62-5

US:

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DE/international: CH: FR:

Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 Fax: +1 484 821 1272

Version: M V 4.10.1 E-mail: info@mn-net.com E-mail: sales-ch@mn-net.com E-mail: sales-fr@mn-net.com E-mail: sales-us@mn-net.com



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Chemical: ethanol CAS No.: 64-17-5

(denatured with 1%IPA/1%MEK, acc.2016/1867/EU)

Classification: H225, Flam. Liq. 2 Formula: C<sub>2</sub> H<sub>6</sub> O; C<sub>2</sub> H<sub>5</sub> OH

Pseudonym: ethyl alcohol, methylated spirit

TSCA Inventory: listed

REACH Reg. No.: 01-2119457610-43-xxxx

EC No.: 200-578-6 Indice No.: 603-002-00-5 RTECS: KQ6300000 MFCD: 00003568

KE No.: KE-13217 Concentration: 75 - <90 % acc. CLP (GHS): H225, Flam. Liq. 2

30 mL Nitric acid 4%

Chemical: nitric acid CAS No.: 7697-37-2 Classification: H272, Ox. Liq. 2, H290, Met. Corr. 1, H314, Skin Corr. 1B, H331, Acute Tox. 3 inh.

Formula:  $HNO_3 \cdot H_2 O$ 

Pseudonym: Aqua fortis, Engravers acid, hydrogen nitrate

TSCA Inventory: listed REACH Reg. No.: 01-2119487297-23-xxxx

EC No.: 231-714-2 Indice No.: 007-004-00-1

RTECS: QU5900000/QU5775000

KE No.: KE-25911, >10% Toxic 97-1-246, Acc. Precaution Chem.

Concentration: 3 - <5 %

acc. CLP (GHS): H290, Met. Corr. 1, H315, Skin Irrit. 2, H318, Eye Dam. 1

100 mL TL CL 500

Chemical: mercury(II) nitrate CAS No.: 7783-34-8

Classification: H302, Acute Tox. 4 oral, H312, Acute Tox. 4 derm., H332, Acute Tox. 4 inh., H373, STOT RE 2,

H400, Aquatic Acute 1, H410, Aquatic Chronic 1

Formula:  $Hg(NO_3)_2$  TSCA Inventory: listed

EC No.: 233-886-4 Indice No.: 080-004-00-7

KE No.: Toxic 97-1-140

 $\label{local constraints} Concentration: 0.86 - < 3.42 \% \\ Correlation factor: x 0.58 (= \%Hg) \\ The classification refers to weight percent of the metal (according to CLP Regulation 2008/1272/EC Annex VI, 1.1.3.2 Note 1) \\$ 

acc. CLP (GHS): H302, Acute Tox. 4 oral, H312, Acute Tox. 4 derm., H332, Acute Tox. 4 inh., H373, STOT RE 2,

H413, Aquatic Chronic 4

### 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 16.1

## **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. Remove contaminated clothing. Show product package, packing insert and this material safety data sheet to the doctor

4.1.1 After SKIN Contact

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

4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open for min. 10 minutes with eye washing bottle, eye douche or running water (protect intact eye). Before (if possible) apply eye drops Proxymetacaine 0.5%, if the opening the eyelid convulsion is painful. Further treatment to be carried out by an eye specialist.

4.1.3 After INHALATION of vapours

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

4.1.4 After ORAL Intake

After oral intake lots of water should be drunk after it has been ingested. ---

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DE/international: CH: FR:

Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 +1 484 821 1272 Fax:

Version: M V 4.10.1 E-mail: info@mn-net.com

E-mail: sales-ch@mn-net.com

E-mail: sales-fr@mn-net.com

E-mail: sales-us@mn-net.com

US:



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### 4.2 Most important symptoms and effects, both acute and delayed

Can accumulate within the body. ---

#### 4.3 Indication of any immediate medical attention and special treatment needed

After EYE CONTACT rinse immediately with plenty of water for a long time. Eyelid convulsion measures. Name the corrosive chemical. Further treatment must to be carried out by an eye specialist. ---

## **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

DANGER: Highly flammable (GHS regulation). Forms explosive vapour-air mixtures. 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. Wear eye protection, respectively face protection. Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed.

### 6.2 **Environmental precautions**

not necessary

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

Bind any escaping liquid with inert absorbent. And dispose in accordance to local regulations for the disposal of hazardous chemicals. Clean any contaminated equipment and floors with plenty of water. 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): Water hazard class (DE):

### 7.2.1 Requirements for stock rooms and containers

Keep original product packages tightly closed during handling and storage. Use inbreakable container for transport of glass bottles.

#### 7.3 Specific end use(s)

Product for analytical use.

## **SECTION 8: Exposure controls/personal protection**

CH:

### 8.1 Control parameters

10 mL Indicator CL 500

Chemical: 1,5-diphenylcarbazone (metal indicator) CAS No.: 538-62-5 Chemical: CAS No.: 64-17-5

DNEL:

[derm] 343 mg/kg; [inh] 950 mg/m<sup>3</sup> DNEL = Derived No-Effect Level (for workers)

0.96 mg/Lno hazard identified

PNEC<sub>(fresh water)</sub>: 0.96 mg/Lno r PNEC = Predicted No Effected Concentration

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FR:

Tel.:

MACHEREY-NAGE (MN)

Fax: +49 24 21 969-199 Version: M V 4.10.1 E-mail: info@mn-net.com

+49 24 21 969-0

DE/international:

Tel.:

Tel.: +41 62 388 55 00 +41 62 388 55 05 Fax: E-mail: sales-ch@mn-net.com

+33 388 68 22 68 Fax: +33 388 51 76 88 E-mail: sales-fr@mn-net.com Tel.: +1 484 821 0984 +1 484 821 1272 Fax:

US:

E-mail: sales-us@mn-net.com

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> TRGS 900 (DE): 200 mL/m3 / 380 mg/m3

Short-term exposure factor: 4 (II), Y

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

SUVA(CH) MAK value: 500 ppm / 960 mg/m<sup>3</sup>

NIOSH:

l: [TWA] 1000 ppm / 1900 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] 1000 ppm / 1900 mg/m<sup>3</sup>

30 mL Nitric acid 4%

Chemical: nitric acid CAS No.: 7697-37-2

[inh] (1.3) mg/m³ DNEL = Derived No-Effect Level (for workers) DNEL: PNEC (fresh water) : no hazard idea PNEC = Predicted No Effected Concentration no hazard identified

EU value: 1 ppm / 2.6 mg/m<sup>3</sup> TRGS 900 (DE): 1 ppm / 2,6 mg/m<sup>3</sup> E/e respirable

Short-term exposure factor: - skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 2 ppm / 5 mg/m3 NIOSH: [TWA] 2 ppm / 5 mg/m<sup>3</sup> 4 ppm / 10 mg/m<sup>3</sup> NIOSH STEL:

[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: List of highly hazardous chemicals, toxics and reactives Yes (TQ = 500 lbs) n/a; [TWA] 2 ppm / 5

mg/m³

100 mL TL CL 500

Chemical: mercury(II) nitrate CAS No.: 7783-34-8

[Hg] 0.02 e mg/m<sup>3</sup> EU value: [Hg] 0,02 E mg/m<sup>3</sup> TRGS 900 (DE):

Short-term exposure factor: 8 (II), H, Sh

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

[Hg][MAK] 0,02 e/[STEL] 0,16 e mg/m<sup>3</sup> SUVA(CH) MAK value:

SUVA(CH) BAT value: [Krea U/d] 35 µg/L TRGS 903 (DE):

[U/a<sub>Kreatinin</sub>] 25 µg/g B blood, U urine, a no limitation, b end of exposition or shift (Hg Vapor, TWAskin ) 0.05; other 0.1 mg/m $^{3}$ 

[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: [TWA] 0.1 mg/m<sup>3</sup>

#### 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 or face protection.

### 8.2.4 Skin protection

Recommended to avoid contamination with these hazards.

### 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.

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

### 9.1 Information on basic physical and chemical properties

10 mL Indicator CL 500

Appearance: liquid Colour: red Odor: alcoholic

Flash point: 20 °C

30 mL Nitric acid 4%

Appearance: liquid Colour: colourless Odor: odorless

0-1 pH: Specific gravity: 1,03 g/cm<sup>3</sup> Solubility in water: 0-100 %

100 mL TL CL 500

Appearance: liquid Colour: colourless Odor: odorless

pH: 1-2 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

Substances are very volantile and form flammable vapour-air mixtures. ---

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

no further data available.

### 10.2 Chemical stability

No known instability

### Possibility of hazardous reactions 10.3

No further data available.

#### 10.4 Conditions to avoid

Not necessary. ---

### 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.

### 10 mL Indicator CL 500

Chemical: 1,5-diphenylcarbazone (metal indicator) CAS No.: 538-62-5

TSCA Inventory: listed

ethanol Chemical: CAS No.: 64-17-5

TSCA Inventory: California Proposition 65 List: not listed listed

1000 ppm ACGIH:

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

Target Organs: Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system

Symptoms: irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; cough;

liver damage; anemia; reproductive, teratogenic

Australia NICNAS: Canada CEPA 1999: DSL yes not listed

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

Japan ISHL: listed ≥0,1%/≥0,1%, Article 57-2 (SDS required)

South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-13217

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> LD50<sub>orl rat</sub>: 6200 mg/kg LC\_Lowihl gpg: 21.9 g/m<sup>3</sup> LC\_Loworl hmn: 1400 mg/kg LC50<sub>ihl mouse</sub>: [4h] 39 g/m<sup>3</sup> LC50<sub>ihl rat</sub>: [10h] 20 g/m<sup>3</sup> LD50<sub>drm rbt</sub>: 20 000 mg/kg LD50<sub>oral mouse</sub>: 3450 mg/kg TRGS 905 (DE): K5, M5, R<sub>F</sub> C

### 30 mL Nitric acid 4%

Chemical: nitric acid CAS No.: 7697-37-2

California Proposition 65 List: not listed TSCA Inventory:

**Exposure Routes:** inhalation, ingestion, skin and/or eye contact Target Organs: Eyes, skin, respiratory system, teeth

Symptoms: irritation eyes, skin, mucous membrane; delayed pulmonary edema, pneumonitis, bronchitis; dental

erosion

Australia NICNAS: Canada CEPA 1999: DSL Yes

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

South Korea TCCA: Accident Precaution Chemical Yes

Korea Exist.Chem.Inventory: KE-25911, >10% Toxic 97-1-246, Acc. Precaution Chem.

[NOAEC] 1500 mg/kg LC\_Loworl hmn: LC50<sub>ihl rat</sub>: [4h] 2.65 mg/L

TRGS 905 (DE):

### 100 mL TL CL 500

Chemical: mercury(II) nitrate CAS No.: 7783-34-8 California Proposition 65 List: listed developmental TSCA Inventory: listed

**Exposure Routes:** inhalation, skin absorption, ingestion, skin and/or eye contact Target Organs: Eyes, skin, respiratory system, central nervous system, kidneys

Symptoms: irritation eyes, skin; cough, chest pain, dyspnea (breathing difficulty), bronchitis, pneumonitis; tremor,

insomnia, irritability, indecision, headac

Japan CSCL/PRTR: PRTR: ≥1,0%Hg class I, Japan PDSCL: Poisonous substance

listed ≥0,3%/≥0,1% Japan ISHL: Korea Exist.Chem.Inventory: Toxic 97-1-140 LD50<sub>orl rat</sub>: 26 mg/kg LD50<sub>drm rat</sub>: 75 mg/kg

Acute Effects: Cause after oral intake, inhalation of vapours/dust, skin contact, impairments of health when ingested in small

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

TRGS 907 (DE):

# **SECTION 12: Ecological information**

### 12.1 **Toxicity**

Following information is valid for pure substances.

10 mL Indicator CL 500

1,5-diphenylcarbazone (metal indicator) Chemical: CAS No.: 538-62-5

Water hazard class (DE):

Chemical: ethanol CAS No.: 64-17-5

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 0.96 mg/Lno hazard identified

LC50<sub>daphnia magna/48h</sub>: >100 mg/L LC50pimephales promelas/96h: 13400 - 15100 mg/L LC50 leuciscus idus/96h: [48h] 8140 mg/L LC50<sub>fish/96h</sub>: 13 g/L

EC50<sub>daphnia/48h</sub>: 9.3-14.2 g/L [7d] 5000 mg/L IC50<sub>scenedesmus</sub> quadricauda/72h: EC10<sub>pseudomonas putita/16h</sub>: [EC5] 6500 mg/L Water hazard class (DE): WGK No.: 0096

Dispersion coefficient<sub>(octanol-water)</sub>: -0.31

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> Storage class (VCI): 3

30 mL Nitric acid 4%

nitric acid CAS No.: 7697-37-2 Chemical:

PNEC (fresh water):
PNEC = Predicted No Effected Concentration no hazard identified

 $LC50_{daphnia\ magna/48h}$  : 180 mg/L LC50<sub>fish/96h</sub> [4d] 12 g/L

Water hazard class (DE): WGK No.: 0414

Storage class (VCI): 8 B

100 mL TL CL 500

Chemical: mercury(II) nitrate CAS No.: 7783-34-8 May cause long lasting harmful effects to aquatic life. Avoid contact of substance/mixture to environment. Environmental hazards must not be labelled with P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).

LC<sub>50</sub>: 0.5<sub>HgCl2/48h</sub> mg/L Bio Toxicity:

LC50<sub>fish/96h</sub>: 0.17 mg/L

Water hazard class (DE): WGK No.: 0406

Storage class (VCI):

### 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

## **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. Not for mercury containing test solutions, please collect for disposal of hazardous waste. Empty containers of corrosive reagents prior to disposal, rinse with water.

## **SECTION 14: Transport information**

14.1. UN number: 3316 14.2. UN proper shipping name: Chemical Kit

14.3. Class: 14.4. Packing group:

Road transport

M11 Tunnel restriction code: Classification code

acc. ADR 3.3.1/251: see LQ in Alternative declaration for transportation Limited Quantity:

Air transport

PAX: max. weight PAX: CAO: 960 max. weight CAO: 10 KG Maritime transport

F-A, S-P EmS: Storage category: Α

### Or use Alternative declaration for transportation:

2810 14.2 UN proper shipping name: Toxic liquid, organic, n.o.s. (mercury(II) nitrate solution) 14.1 UN number:

14.3 Class: 6.1 14.4 Packing group:

Road transport

Classification code:

Limited Quantity: 5 L Tunnel restriction code: Ε

**Excepted Quantity:** E 1

Air transport

655 PAX: max. weight PAX: 60 L

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MACHEREY-NAGE **(MN)** 

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany

DE/international: CH: FR:

US: Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984

Fax: +49 24 21 969-199 +41 62 388 55 05 Fax: +33 388 51 76 88 +1 484 821 1272 Fax: Fax: Version: M V 4.10.1 E-mail: info@mn-net.com E-mail: sales-ch@mn-net.com E-mail: sales-fr@mn-net.com E-mail: sales-us@mn-net.com



# Safety Data Sheet

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

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663 max. weight CAO: 220 I CAO.

Maritime transport

EmS: F-A, S-A Storage category:

#### 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,

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

### 16.1 List of H and P phrases

### 16.1.1 List of relevant H phrases

H225 Highly flammable liquid and vapour.

H290 May be corrosive to metals. H302 Harmful if swallowed. Harmful in contact with skin. H312 H315 Causes skin irritation. H318 Causes serious eye damage

H332 Harmful if inhaled.

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

May cause long lasting harmful effects to aquatic life. H413

#### 16.1.2 List of relevant P phrases

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed. P260sh Do not breathe dust/vapours. P261sh Avoid breathing dust/vapours.

P264W Wash with water thoroughly after handling. P273 Avoid release to the environment. P280sh Wear protective gloves/eye protection.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P301+312

P302+352 IF ON SKIN: Wash with plenty of water.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.
Immediately call a POISON CENTER/doctor. P310

P330 Rinse mouth

P390 Absorb spillage to prevent material damage.

### 16.2 Training advice

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

### 16.3 Recommended restriction on use

Only for professional user.

Look about employee restrictions for young people (f. ex. 94/33/EC or DE § 22 JArbSchG)!

Look about employee restrictions for pregnant women and nursing women (f.ex. 92/85/EEC or for DE §§ 11-13 MuSchG 2017)! An individual package of this product or test kit has a moderate hazardous potential.

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### 16.4 Further information

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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, 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 TRGS 900, German engineering rules governing limits in air at work, updated 03/2018 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

2017-08 Adaption of new ethanol denaturation 2016/1867/EU

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DE/international: CH: FR: