

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

NANOCOLOR Chloride 200 Page: 1/12 Date of issue: 05.09.2018 Printing date: 01.10.2019

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

1.1 **Product identifier**

REF 985019

Product name NANOCOLOR Chloride 200

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 5 mL Blank (NULL) 20 x 4 mL Chloride 200 (R0) 2 x 11 mL Chloride 50/200 (Cl⁻ 2)

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



GHS06



GHS07



US:

DANGER Signal word

Hazard identification	Hazard classes/categories
H225	Flam. Liq. 2
H290	Met. Corr. 1
H301	Acute Tox. 3 oral
H302	Acute Tox. 4 oral
H311	Acute Tox. 3 derm.
H312	Acute Tox. 4 derm.
H314	Skin Corr. 1B
H331	Acute Tox. 3 inh.
H332	Acute Tox. 4 inh.
H370	STOT SE 1
H373	STOT RE 2
H413	Aquatic Chronic 4

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2.1 Classification of the substance or mixture

5 mL Blank (NULL)

Do not need labelling as hazardous

Signal word

No hazard class

4 mL Chloride 200 (R0)



Signal word DANGER

Hazard identification Hazard classes/categories

H290 Met. Corr. 1 H314 Skin Corr. 1B

11 mL Chloride 50/200 (Cl-2)









Signal word **DANGER**

Hazard identification	Hazard classes/categories
H225	Flam. Liq. 2
H301	Acute Tox. 3 oral
H302	Acute Tox. 4 oral
H311	Acute Tox. 3 derm.
H312	Acute Tox. 4 derm.
H331	Acute Tox. 3 inh.
H332	Acute Tox. 4 inh.
H370	STOT SE 1
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). Inner packages up to 10 mL need max. 2 symbols (Annex I - 1.5.2.4.1 / 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).

5 mL Blank (NULL)

Do not need labelling as hazardous Signal word: -

4 mL Chloride 200 (R0)



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Signal word: DANGER

H314

Causes severe skin burns and eye damage.

P260sh, P280sh, P303+361+353, P305+351+338, P310

Do not breathe dust/vapours. Wear protective gloves/eye protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. 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.

11 mL Chloride 50/200 (CI-2)



GHS02



GHS06





Signal word: DANGER

H301, H311, H331, H370

Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled. Causes damage to organs.

P260sh, P280sh, P301+310, P302+352, P405

Do not breathe dust/vapours. Wear protective gloves/eye protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. IF ON SKIN: Wash with plenty of water. Store locked up.

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. 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 severe after oral intake, inhalation of vapours, skin contact, impairments of health or can lead to death even when only ingested in small quantities. Cause after oral intake, inhalation of vapours/dust, impairments of health when ingested in small quantities. Causes damage to organs. -

Information pertaining to particular risks to the environment

Avoid contact of substance/mixture to environment.

PBT: not applicable vPvB: not applicable

Other hazards

SECTION 3: Composition/information on ingredients

3.1 **Substances or 3.2 Mixtures**

5 mL Blank (NULL)

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

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

H₂O Formula: TSCA Inventory: listed

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

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

4 mL Chloride 200 (R0)

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

Formula: HNO₃ •H₂ O

Pseudonym: Aqua fortis, Engravers acid, hydrogen nitrate

TSCA Inventory: listed

REACH Reg. No.: 01-2119487297-23-xxxx

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

QU5900000/QU5775000 RTECS:

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

Concentration: 5 - < 13 %

acc. CLP (GHS): H290, Met. Corr. 1, H314, Skin Corr. 1B

CAS No : -Chemical: inorganic salts, declaration not necessary

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

Pseudonym: not hazardous TSCA Inventory: all listed KE No.: listed Concentration: < 1.00 %

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

11 mL Chloride 50/200 (Cl-2)

Chemical: mercury(II) thiocyanate CAS No.: 592-85-8

Classification: H301, Acute Tox. 3 oral, H311, Acute Tox. 3 derm., H331, Acute Tox. 3 inh., H373, STOT RE 2,

H400, Aquatic Acute 1, H410, Aquatic Chronic 1

Formula: Hg(SCN)₂ TSCA Inventory: listed

EC No.: 209-773-0 Indice No.: 080-004-00-7

RTECS: XL1550000

KE No.: KE-05-0812, Toxic 97-1-140

0,32 - <0,64 % Correlation factor: x 0.78 (= %Hg) weight percent of the metal (according to CLP Regulation 2008/1272/EC Annex VI, 1.1.3.2 Note 1) Concentration: The classification refers to

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

Chemical: CAS No.: 67-56-1 methanol

Classification: H225, Flam. Liq. 2, H301, Acute Tox. 3 oral, H311, Acute Tox. 3 derm., H331, Acute Tox. 3 inh.,

H370. STOT SE 1

Formula: CH₄ O, CH₃ OH

TSCA Inventory: listed

REACH Reg. No.: 01-2119433307-44-xxxx

EC No.: 200-659-6 603-001-00-X Indice No.: PC1400000 00004595 RTFCS MECD:

KE No .: KE-23193, Toxic 97-1-80

Concentration: 95 - <100 %

acc. CLP (GHS): H225, Flam. Liq. 2, H301, Acute Tox. 3 oral, H311, Acute Tox. 3 derm., H331, Acute Tox. 3 inh.,

H370, STÒT SÉ 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 16.1

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. Take to a doctor, in a raised position if there are breathing difficulties.

4.1.1

Remove contaminated clothing immediately. Rinse the affected skin or mucous membrane thoroughly for min. 15 minutes under running water. (If possible) use soap. Avoid neutralisation. Then apply a loose bandage.

4.1.2

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.

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4.1.3 After INHALATION of vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. If vomiting and if insensible place patient in recovery position and keep airways free. Administer a Dexamethasone spray as soon as possible. Ensure quiet, warmth, and provide resuscitation if necessary. In the event of respiratory distress ensure that the patient inhales oxygen. Secure the breathing, heart and circulatory function. ---

4.1.4 After ORAL Intake

After oral intake lots of water with activated charcoal supplement should be drunk after it has been ingested. Do not induce vomiting under any circumstances. Do not make any efforts to neutralise it. Contact medical advice for possible consequences. ---

4.2 Most important symptoms and effects, both acute and delayed

Chronic Effects: Causes damage to organs. ---

4.3 Indication of any immediate medical attention and special treatment needed

CORROSIVE DAMAGE: After SKIN CONTACT rinse with water for a long time. Efforts to neutralise the substance can frequently make matters worse. Apply glucocorticosteroides following inflammatory reactions. 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. After INTAKE administer aluminium oxide drug suspensions. Administer a prophylaxis to counter pulmonary oedema following the INGESTION of corrosive aerosols. In the event of RESPIRATORY DISTREES ensure that the patient inhales oxygen. TOXIFICATION: Treat symptomatically. Secure the breathing, heart and circulatory function. Remove the substance quickly from the body. Mechanically induce vomiting or ensure the patient eats medicinal charcoal compressed tablets or drinks aluminium oxide drug suspensions. In order to ensure rapid passage through the colon (administer 2 tablespoons of dissolved Glauber's salt). Alleviation of pain, if necessary sedation. Shock treatment. Administer a prophylaxis to counter pulmonary oedema. Inform patient respectively further measures and the possibility of long-term damages. ---

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. Spray any vapours released with water. Retent fire water. Use only acid-resistant safety equipment.

For great amount - if necessary - protective breathing apparatus which is independent of the ambient air (isolated equipment), and sealed protective clothing is necessary in the event of a large-scale formation of toxic substances.

5.4 Additional information

Danger for environment only in the event of a large-scale leakage or formation of hazardous substances. ---

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Wear suitable protective gloves (see 8.2.2). 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

see information in section 5.4 ---

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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. Use only in well-ventilated working areas. Use a safety bottle when shaking test tubes.

7.2 Conditions for safe storage, including any incompatibilities

The original product package of MACHEREY-NAGEL allows a safe storage. Products containing also toxic substances should be kept

Storage class (VCI): Water hazard class (DE): 3

7.2.1 Requirements for stock rooms and containers

Keep original product packages tightly closed during handling and storage, and store in a well-ventilated place at max. 25 °C, away or preferably separate from substances with which a hazardous reaction could take place, so that they are not immediately accessible to outside parties. Use inbreakable container for transport of glass bottles.

7.3 Specific end use(s)

Product for analytical use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

5 mL Blank (NULL)

Chemical: CAS No.: 7732-18-5

4 mL Chloride 200 (R0)

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

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

1 ppm / 2.6 mg/m³ EU value: TRGS 900 (DE): 1 ppm / 2,6 mg/m³

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 [TWA] 2 ppm / 5 mg/m³ 4 ppm / 10 mg/m³ NIOSH STEL:

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

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

mg/m³

CAS No .: -Chemical: inorganic salts, declaration not necessary

11 mL Chloride 50/200 (CI-2)

mercury(II) thiocyanate CAS No.: 592-85-8 Chemical:

FU value: [Hg] 0.02 e mg/m³ TRGS 900 (DE): 0.02_{Hg} E mg/m³ E/e respirable 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

SUVA(CH) MAK value: [Hg][MAK] 0,02 e/[STEL] 0,16 e mg/m³

SUVA(CH) BAT value: [Krea U/d] 35 µg/L [U/aκ_{reatinin}] 25 μg/g B blood, U urine, a no limitation, b end of exposition or shift TRGS 903 (DE):

NIOSH:

l: [Hg vapor: TWA_{skin}] 0.05; other 0.1 mg/m³ [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: [TWA] 0.1 mg/m³

Chemical: CAS No.: 67-56-1

[derm] 40 mg/kg bw/day; [inh] 260 mg/m³ DNEL: DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 20.8 mg/Lno hazard identified PNEC = Predicted No Effected Concentration

EU value: [TWA] 200 ppm / 260 mg/m³ 200 ppm / 270 mg/m³ TRGS 900 (DE):

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E/e respirable

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

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

SUVA(CH) MAK value: 200 ppm/ 260 mg/m³ SUVA(CH) BAT value: [U/c,b] 30 mg/L TRGS 903 (DE): U/c,b 30 mg/L

S 903 (DE): U/c,b 30 mg/L B blood, U urine, a no limitation, b end of exposition or shift

NIOSH: [TWA, skin] 200 ppm / 260 mg/m³

NIOSH STEL: 250 ppm / 325 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] 200 ppm / 260 mg/m³

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

Use for open access of these substances for example a protection filter, class A/AX. 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 Eye protection

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 clothing damage, and to avoid contamination with these hazards.

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

5 mL Blank (NULL)

Appearance: liquid Colour: colourless Odor: odorless

pH: 6-8 Specific gravity: 1,00 g/cm³

4 mL Chloride 200 (R0)

Appearance: liquid Colour: slightly yellow Odor: nitric

pH: 0-1

11 mL Chloride 50/200 (Cl-2)

Appearance: liquid Colour: colourless Odor: alcoholic

Flash point: 11 °C

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

Strong CORROSIVE, no further data available.

10.2 Chemical stability

No known instability.

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10.3 Possibility of hazardous reactions

Can react violently with organic material. Possible: Contact with acids liberates toxic gas. No further data available.

10.4 Conditions to avoid

Not necessary. Observe labeled storage temperature. ---

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.

5 mL Blank (NULL)

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

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

4 mL Chloride 200 (R0)

Chemical: CAS No.: 7697-37-2

TSCA Inventory: California Proposition 65 List: not listed listed

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: not listed Canada CEPA 1999: DSL Yes

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

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

LC_Loworl hmn: [NOAEC] 1500 mg/kg LC50_{ihl rat}: [4h] 2.65 mg/L

TRGS 905 (DE): R_F D

Chemical: inorganic salts, declaration not necessary CAS No .: -

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

11 mL Chloride 50/200 (CI-2)

mercury(II) thiocyanate Chemical: CAS No.: 592-85-8

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 Japan ISHL: listed ≥0,3%/≥0,1%

Korea Exist.Chem.Inventory: KE-05-0812, Toxic 97-1-140

LD50_{orl rat}: 46 mg/kg LD50_{drm rbt} 685 mg/kg

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

quantities

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

TRGS 907 (DE):

Chemical: methanol CAS No.: 67-56-1 TSCA Inventory: California Proposition 65 List: listed, developmental

ACGIH: 200 ppm / 160 mg/m³

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

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

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> Target Organs: Eyes, skin, respiratory system, central nervous system, gastrointestinal tract

Symptoms: irritation eyes, skin, upper respiratory system; headache, drowsiness, dizziness, nausea, vomiting;

visual disturbance, optic nerve damage (blindness

Australia NICNAS: Canada CEPA 1999: DSL yes

PAC yes, Japan PDSCL: Deleterious Substance Japan CSCL/PRTR: Japan ISHL: listed ≥0,3%/≥0,1%, Article 57-2 (SDS required)

South Korea TCCA: Accident Precaution Chemical yes

Korea Exist.Chem.Inventory: KE-23193, Toxic 97-1-80

5628 mg/kg LD50_{orl rat}: LC_Lowihl rat: [4h] 64000 mg/m³ LC_Low_{orl hmn}: 143 mg/kg LC50_{ihl rat}: [4h] >80 mg/L LD50_{drm rbt}: 15800 mg/kg LD50_{orl mus}: 7300 mg/kg

Acute Effects: Cause severe after oral intake, inhalation of vapours, skin contact, impairments of health or can lead to death even

when only ingested in small quantities. Chronic Effects: Causes damage to organs.

TRGS 905 (DE): R_F C

SECTION 12: Ecological information

12.1 **Toxicity**

Following information is valid for pure substances.

5 mL Blank (NULL)

CAS No : 7732-18-5 Chemical: water

4 mL Chloride 200 (R0)

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

Avoid contact of substance/mixture to environment. PNEC (fresh water):
PNEC = Predicted No Effected Concentration no hazard identified

LC50_{daphnia magna/48h}: 180 ma/L $LC50_{fish/96h}$: [4d] 12 g/L

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

Storage class (VCI):

Chemical: inorganic salts, declaration not necessary CAS No .: -

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

11 mL Chloride 50/200 (Cl-2)

Chemical: mercury(II) thiocyanate CAS No.: 592-85-8 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).

Bio Toxicity: $LC_{50}:0.5_{HgCl2/48h}\,mg/L$ Water hazard class (DE): 3 WGK No.: 0413

Storage class (VCI): 12

Chemical: methanol CAS No.: 67-56-1

Avoid contact of substance/mixture to environment.

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 20.8 mg/Lno hazard identified

[24h] 23.5 g/L LC50daphnia magna/48h: LC50pimephales promelas/96h: 29.4 g/L LC50_{fish/96h}: 15.4 g/L EC50_{daphnia/48h}: >10 g/L

[IC5 8d] 8000 mg/L IC50_{scenedesmus} quadricauda/72h: EC10_{pseudomonas putita/16h}: [EC5] 6.6 g/L Water hazard class (DE): WĞK No.: 0145

Dispersion coefficient(octanol-water): -0.77 Storage class (VCI):

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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). Close container tightly.

13.1 Waste treatment methods

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 Classification code: M11 Tunnel restriction code:

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

Air transport

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

Maritime transport

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

Or use Alternative declaration for transportation:

UN No.: (see below) UN 1993 class 3 II, class 8 II, Excepted Quantities (≤30 mL/∑≤500 mL) = ADR/ IATA E2

1992 14.2 UN proper shipping name: Flammable liquid, toxic, n.o.s. (methanol solution) 14.1 UN number:

Additionally class: 6.1 _14.4 Packing group: 14.3 Class:

Road transport Classification code: FT1

Tunnel restriction code: Limited Quantity: **Excepted Quantity:** E 2 Special instructions: 274

Air transport

352 PAX: max. weight PAX: 1 I CAO: 364 max. weight CAO: 60 L

Maritime transport

EmS: F-E, S-D Storage category:

14.1 UN number: 3264 14.2 UN proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (nitric acid solution)

14.3 Class: 14.4 Packing group:

F 2

Road transport

Classification code: C1

Limited Quantity: Tunnel restriction code: F 1 L

Excepted Quantity:

Air transport

PAX: 851 max. weight PAX: 1 L CAO: max. weight CAO: 855 30 L

Maritime transport

F-A, S-B В EmS: Storage category:

14.5 **Environmental hazards**

none, contains only small quantities of hazardous substances

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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

16.1 List of H and P phrases

16.1.1 List of relevant H phrases

Highly flammable liquid and vapour. H290 May be corrosive to metals. H301 Toxic if swallowed. H302 Harmful if swallowed H311 Toxic in contact with skin. H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H331 Toxic if inhaled. Harmful if inhaled. H332 H370 Causes damage to organs.

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

H413 May cause long lasting harmful effects to aquatic life.

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. Avoid breathing dust/vapours. P261sh

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

IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P301+310 P301+312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

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

P303+361+353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P311 Call a POISON CENTER/doctor.

P312 Call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

P390 Absorb spillage to prevent material damage.

P403+233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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

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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/EÉC or for DE §§ 11-13 MuSchG 2017)! 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 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 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

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work

TRGS 905, German engineering rules governing carcinogens and mutagens, updated 03/18

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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