

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

NANOCOLOR Ammonium 3 Page: 1/9

Printing date: 02.06.2020 Date of issue: 22.04.2020

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

1.1 **Product identifier**

RFF 985003

Product name NANOCOLOR Ammonium 3

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.

20 x 4 mL Ammonium 3 (R0) 1 x 5 mL Blank (NULL)

1 x 20x 14 mg NANOFIX Ammonium R2

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



GHS07

Signal word WARNING

Hazard identification Hazard classes/categories

H302 Acute Tox 4 oral

2.1 Classification of the substance or mixture

4 mL Ammonium 3 (R0)

Do not need labelling as hazardous

Signal word

No hazard class

5 mL Blank (NULL)

Do not need labelling as hazardous

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Signal word

No hazard class

20x 14 mg NANOFIX Ammonium R2



Signal word WARNING

Hazard identification Hazard classes/categories H302 Acute Tox. 4 oral

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 must not be labelled with H and P phrases until 125 mL (EU 1272/2008

4 mL Ammonium 3 (R0)

Do not need labelling as hazardous Signal word: -

5 mL Blank (NULL)

Do not need labelling as hazardous Signal word: -

20x 14 mg NANOFIX Ammonium R2



Signal word: WARNING

2.3 Other hazards

Possible hazards from physicochemical properties

Information pertaining to particular risks to human and possible symptoms Cause after oral intake, impairments of health when ingested in small quantities. ---

Information pertaining to particular risks to the environment

Other hazards

SECTION 3: Composition/information on ingredients

3.1 **Substances or 3.2 Mixtures**

4 mL Ammonium 3 (R0)

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CAS No.: 1310-73-2

011-002-00-6

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> Chemical: sodium hydroxide solution Classification:

No criteria for classification or naming of chemical not required. NaOH•H2O

Formula: Pseudonym: soda lye listed

TSCA Inventory:

REACH Reg. No.: 01-2119457892-27-xxxx EC No.: 215-185-5

RTECS: WB4900000 KE No.: KE-31487 Concentration: < 0.50 %

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

CAS No.: 6132-04-3 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 GE8300000 RTECS: KE No.: KE-20843 Concentration: 1 - <10 %

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

5 mL Blank (NULL)

CAS No.: 7732-18-5 Chemical water

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

Formula: $H_2 O$ TSCA Inventory: listed

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

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

20x 14 mg NANOFIX Ammonium R2

Chemical: sodium nitroprusside CAS No.: 13755-38-9

Classification: H301, Acute Tox. 3 oral Formula: Na₂ [Fe(CN)₅ NO]₂ •2 H₂ O disodium pentacyanonitrosylferrate Pseudonym:

TSCA Inventory: listed (CAS 14402-89-2)

EC No.: 238-373-9 LJ89250000 RTECS: KE No.: not listed Concentration: 15 - <33 %

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

Chemical: dichloroisocyanuric acid, Na salt CAS No.: 2893-78-9

Classification: H272, Ox. Liq. 2, H302, Acute Tox. 4 oral, H319, Eye Irrit. 2, H335, STOT SE 3, H410, Aquatic

Chronic 1, EUH031, 031 not defined Formula: C₃ Cl₂ N₃ NaO₃

Pseudonym: troclosene sodium, sodium 3,5-dichloro-2,4,6-trioxo-1,3,5-triazinan-1-ide

TSCA Inventory:

REACH Reg. No.: 01-2119489371-33-xxxx 220-767-7

EC No.: 613-030-01-7 Indice No : XZ1900000 00006036 RTECS: MFCD:

KE No.: KE-10215, >25% Toxic 2014-1-688

Concentration: 3 - <10 %

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

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SECTION 4: First aid measures

4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice.

4.1.1 **After SKIN Contact**

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

4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open with eye washing bottle, eye douche or running water (protect intact eye).

4.1.3 After INHALATION of vapours

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

4.1.4

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

Most important symptoms and effects, both acute and delayed 4.2

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. 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.

Storage class (VCI): 8B Water hazard class (DE): 3

Requirements for stock rooms and containers 7.2.1

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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

4 mL Ammonium 3 (R0)

sodium hydroxide solution CAS No.: 1310-73-2 Chemical:

DNEL [inh] 1 mg/m³ DNEL = Derived No-Effect Level (for workers) TRGS 900 (DE): 2 mg/m³ 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 e mg/m³ 2 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] 2 mg/m³

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

5 mL Blank (NULL)

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

20x 14 mg NANOFIX Ammonium R2

CAS No.: 13755-38-9 sodium nitroprusside Chemical:

Chemical: dichloroisocyanuric acid, Na salt CAS No.: 2893-78-9

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

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

4 mL Ammonium 3 (R0)

Appearance: liquid Colour: colourless Odor: odorless

12-13 Solubility in water: 0-100 %

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5 mL Blank (NULL)

Appearance: liquid Colour: colourless Odor: odorless

pH: 6-8 Specific gravity: 1,00 g/cm³

20x 14 mg NANOFIX Ammonium R2

Appearance: powder (solid) Colour: rose Odor: chloric

Ĥ: 5-7

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

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.

4 mL Ammonium 3 (R0)

Chemical: sodium hydroxide solution CAS No.: 1310-73-2

TSCA Inventory: listed California Proposition 65 List: not listed

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

Target Organs: Eyes, skin, respiratory system

Symptoms: irritation eyes, skin, mucous membrane; pneumonitis; eye, skin burns; temporary loss of hair

Australia NICNAS: not listed Canada CEPA 1999: DSL Yes

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

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

South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-31487

LD50_{orl rat}: [40%] 1250 / [<25%] >2000 mg/kg

LD50_{orl mus}: 40 mg/kg

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

TSCA Inventory: listed (CAS 68-04-2)
Korea Exist.Chem.Inventory: KE-20843
LD50_{orl rat}: >8000 mg/kg

5 mL Blank (NULL)

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

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

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20x 14 mg NANOFIX Ammonium R2

Chemical: sodium nitroprusside CAS No.: 13755-38-9

listed (CAS 14402-89-2) TSCA Inventory:

Korea Exist.Chem.Inventory: not listed LD50_{orl rat}: 99 mg/kg 20 mg/kg LC_Loworl rat:

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

dichloroisocyanuric acid, Na salt CAS No.: 2893-78-9

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

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

not listed South Korea TCCA: not listed

Korea Exist.Chem.Inventory: KE-10215, >25% Toxic 2014-1-688

LD50_{orl rat}: 550-1600 mg/kg 3570 mg/kg LC Loworl hmn: LD50_{drm rbt}: >5000 mg/kg

SECTION 12: Ecological information

12.1 **Toxicity**

Following information is valid for pure substances.

4 mL Ammonium 3 (R0)

Chemical: sodium hydroxide solution CAS No.: 1310-73-2

LC50leuciscus idus/96h: 35-189 mg/L LC50_{fish/96h}: 45.4 mg/L EC50_{daphnia/48h}:
Water hazard class (DE): >100 mg/L

WGK No.: 142

Storage class (VCI):

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

LC50fish/96h: 18-32 g/L EC50_{daphnia/48h}: 5.6-10 g/L >18-32 g/L EC50_{chlorella vulgaris/5d}:

EC10_{pseudomonas putita/16h}: EC50_{ps. fluorescens/8h}: >1.8-3.2 g/L

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

5 mL Blank (NULL)

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

20x 14 mg NANOFIX Ammonium R2

CAS No.: 13755-38-9 Chemical: sodium nitroprusside

Water hazard class (DE): 6.1 B Storage class (VCI):

CAS No.: 2893-78-9 dichloroisocyanuric acid, Na salt

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

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

16.1 List of H and P phrases

16.1.1 List of relevant H phrases

Harmful if swallowed.

16.1.2 List of relevant P phrases

P264W Wash with water thoroughly after handling.

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

P330 Rinse mouth

16.2 Training advice

Regular safety training.

16.3 Recommended restriction on use

Only for professional user.

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

16.4 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 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

KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

Monthaliate Goldinion / Indicatorie (Pata Griedle of Frazardeus Gabet

Revisions/Updates

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

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