

Safety Data Sheet

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

NANOCOLOR Ammonium 3. robot Page: 1/9

Printing date: 06.01.2021 Date of issue: 11.12.2020

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

1.1 **Product identifier**

REF 985603

Product name NANOCOLOR Ammonium 3, robot

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 Reagent A (R0) 1 x 20x 14 mg NANOFIX Ammonium R2

20 x Test tube, empty

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 Reagent A (R0)

Do not need labelling as hazardous

Signal word

No hazard class

20x 14 mg NANOFIX Ammonium R2

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Signal word WARNING

Hazard identification Hazard classes/categories

H302 Acute Tox. 4 oral

Test tube, empty

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). 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 Annex I - 1.5.2).

4 mL Ammonium 3 Reagent A (R0)

Do not need labelling as hazardous Signal word: -

20x 14 mg NANOFIX Ammonium R2



Signal word: WARNING

Test tube, empty

Do not need labelling as hazardous Signal word: -

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 Reagent A (R0)

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CAS No.: 1310-73-2

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> Chemical: sodium hydroxide solution Classification:

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

Pseudonym: soda lye TSCA Inventory: listed

REACH Reg. No.: 01-2119457892-27-xxxx

EC No.: 215-185-5 011-002-00-6 Indice No :

WB4900000 RTECS: 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.

20x 14 mg NANOFIX Ammonium R2

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

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

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

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

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

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

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

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: listed

REACH Reg. No.: 01-2119489371-33-xxxx

EC No.: 220-767-7 613-030-01-7 Indice No.: RTECS: XZ1900000 MFCD: 00006036

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

3 - <10 % Concentration:

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

Test tube, empty

CAS No : -Chemical: Packaging - no content

Classification: No criteria for classification or naming of chemical not required. 99 - <100 % Concentration:

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

3.3 Remarks

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

List of H and P phrases: see section 16.1

SECTION 4: First aid measures

Description of first aid measures 4.1

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. 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):

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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E/e respirable

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

4 mL Ammonium 3 Reagent A (R0)

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

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

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

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 NIOSH: 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

20x 14 mg NANOFIX Ammonium R2

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

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

NIOSH: not listed

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

not listed

Test tube, empty

Chemical: Packaging - no content 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 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

4 mL Ammonium 3 Reagent A (R0)

Appearance: liquid Colour: colourless Odor: odorless

12-13 Solubility in water: 0-100 %

20x 14 mg NANOFIX Ammonium R2

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

Test tube, empty

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> Appearance: solid Colour: colourless Odor: odorless

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 Reagent A (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

not applicable LD50_{drm rbt}: LD50_{orl mus}: 40 mg/kg

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

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

20x 14 mg NANOFIX Ammonium R2

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

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

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

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

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

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

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

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> Japan ISHL: not listed South Korea TCCA: not listed

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

550-1600 mg/kg LD50_{orl rat}: LC Loworl hmn: 3570 mg/kg $LD\overline{5}0_{drm\;rbt}$: >5000 mg/kg

Test tube, empty

Chemical: CAS No .: -Packaging - no content

SECTION 12: Ecological information

12.1 Toxicity

Following information is valid for pure substances.

4 mL Ammonium 3 Reagent A (R0)

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

 $LC50_{leuciscus\ idus/96h}$: 35-189 mg/L LC50_{fish/96h}: 45.4 mg/L EC50_{daphnia/48h}: >100 mg/L

Water hazard class (DE): WGK No.: 142

Storage class (VCI): 8 B

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

18-32 g/L $LC50_{fish/96h}$: EC50_{daphnia/48h}: 5.6-10 g/L >18-32 g/L EC50chlorella vulgaris/5d:

EC10pseudomonas putita/16h: Water hazard class (DE): EC50_{ps. fluorescens/8h}: >1.8-3.2 g/L

Storage class (VCI): 12-13

20x 14 mg NANOFIX Ammonium R2

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

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

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

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

Test tube, empty

CAS No.: -Chemical: Packaging - no content

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

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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

Transport in bulk according to Annex II of MARPOL and the IBC Code 14.7

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. H302

16.1.2 List of relevant P phrases

Wash with water thoroughly after handling

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

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

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SUVA .CH, Limits in air at work 2009, revised on 01.2009

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

Revisions/Updates

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

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