CHEREY-NAGE



Safety Data Sheet

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

REF: 985006 NANOCOLOR Ammonium 200 Page: 1/10 Printing date: 22.11.2022 Date of issue: 26.08.2022 Version: 2.2.4.2

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

1.1 **Product identifier**

REF 985006

no data available NANOCOLOR Ammonium 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. 20 x 8 mL Ammonium 10-200 (R0)

1 x 20 x 18 mg NANOFIX Ammonium (R2) UFI: EUGU-Y3Y1-W20Q-X14M

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Product for analytical use.

Exposure Scenario Classification according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0

The exposure scenario is integrated into sections 1-16.

Uses advised against

not described

1.3 Details of the supplier of the safety data sheet

Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11, 52355 Düren, Germany

Phone: +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 mbH + CO KG
DE: Gemeinsames Giftinformationszentrum (GGIZ)
99089 Erfurt tel. +49 361 730 730. <a href="https://www.content.com/htms://www.content.com Schoemperlenstr. 3-5 <a href="http://www.mn-net.com/sps="http://www.m

You find our current versions of SDS in Internet:

sicherheit@carlroth.de

SECTION 2: Hazard identification

2.0 Classification of the complete product according to Regulation (EC) 1272/2008



GHS07

Signal word WARNING

Hazard identification Hazard classes/categories H302 Acute Tox. 4 oral H315 Skin Irrit. 2 H319 Eye Irrit. 2

2.1 Classification of the substance or mixture according to Regulation (EC) 1272/2008

8 mL Ammonium 10-200 (R0)

Do not need labelling as hazardous

Signal word

No hazard class



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20 x 18 mg NANOFIX Ammonium (R2)



Signal word WARNING

Hazard identification	Hazard classes/categories
H302	Acute Tox. 4 oral
H315	Skin Irrit. 2
H319	Eye Irrit. 2

List of H phrases: see section 16.2

2.2 Label elements according regulation (EC) 1272/2008

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).

8 mL Ammonium 10-200 (R0)

Do not need labelling as hazardous Signal word: -

20 x 18 mg NANOFIX Ammonium (R2)



GHS07

Signal word: WARNING

Label elements of the complete product



Signal word: WARNING

2.3 Other hazards

Possible hazards from physicochemical properties

In the case of pH values are less than 5 or higher than 9 then it is irritant.

Information pertaining to particular risks to human and possible symptoms

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

Information pertaining to particular risks to the environment

Possible endocrine disrupting effects no data available

SECTION 3: Composition / information on ingredients

3.1 Substances or 3.2 Mixtures

8 mL Ammonium 10-200 (R0)



Software: M2 V 6.0.20.60

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Substance name: sodium hydroxide solution

CAS No.: 1310-73-2

Substance rating: H314, Skin Corr. 1A Formula: NaOH•H 2 O verdünnte Natronlauge REACH Reg. No.: H314, Skin Corr. 1A NaOH•H 2 O verdünnte Natronlauge O1-2119457892-27-xxxx

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

Concentration: 0,1 - <0,5 %

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

Substance name: sodium salicylate

CAS No.: 54-21-7

Substance rating: H302, Acute Tox. 4 oral, H319, Eye Irrit. 2, H361, Repr. 2, H361d, Repr. 2

Formula: C 7 H 5 NaO 3

REACH Reg. No.: 01-2119918289-28-xxxx

EC No.: 200-198-0 Concentration: 0,1 - <0,3 %

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

20 x 18 mg NANOFIX Ammonium (R2)

Substance name: sodium nitroprusside

CAS No.: 13755-38-9

Substance rating: H301, Acute Tox. 3 oral Formula: Na $_2$ [Fe(CN) $_5$ NO] $_2$ •2 H $_2$ O Natriumpentacyanonitrosylferrat(II)

EC No.: 238-373-9 Concentration: 15 - <33 %

acc. CLP (GHS): H302, Acute Tox. 4 oral Substance name: dichloroisocyanuric acid, Na salt

CAS No.: 2893-78-9

Substance rating: 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: C ₃ Cl ₂ N ₃ NaO ₃

Pseudonym (de): 1,3-Dichlor-5H-(1,3,5)-triazin-2,4,6-trion

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

EC No.: 220-767-7 Indice No.: 613-030-01-7

Concentration: 10 - <20 %

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

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 16.2.

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

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



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4.3 Indication of any immediate medical attention and special treatment needed

No additionally recommendations. ---

SECTION 5: Firefighting measures

5.1 Extinguishing media

5.1.1 Suitable 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. 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.

5.1.2 Unsuitable extinguishing media

no data available

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.

Additional information 5.4

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

Safe storage is guaranteed in the original packaging. Storage class (German chemical industry): see chapter 12.1 Storage class (VCI): 6.1B 3

Water hazard class (DE):

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.

SECTION 8: Exposure controls /personal protection

8.1 **Control parameters**

8 mL Ammonium 10-200 (R0)

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

Chemical: CAS No.: 54-21-7 sodium salicylate

1,32 mg/m³ DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 0,0413 mg/L



7.2.1

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PNEC = Predicted No Effected Concentration

20 x 18 mg NANOFIX Ammonium (R2)

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

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

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

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 Skin protection / 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 / Face Protection

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.

colourless

8.2.6 Thermal hazards

no data available

8.3 Limitation and monitoring of environmental exposure

Do not release product into environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

8 mL Ammonium 10-200 (R0)

a) State of aggregation:b) Colour:

c) Odor: red no data available d) Melting point: e) Boiling point: no data available f) Flammability: no data available g) Explosive limits (lower / upper): no data available h) Flash point: no data available i) Flashing temperature: no data available j) Decomposition temperature: no data available k) pH value: 12-13 I) Kinematic viscosity: no data available

I) Kinematic viscosity:

m) Solubility in water:

0-100 %

odata available

n) Dispersión coefficient (o/w):
no data available
o) Vapour pressure (20°C):
no data available
p) Specific gravity:
no data available
q) Relative vapour density (air=1):
no data available
r) Particle size:
no data available

20 x 18 mg NANOFIX Ammonium (R2)

a) State of aggregation:

b) Colour: colourless
c) Odor: red
d) Melting point: no data av

d) Melting point: no data available e) Boiling point: no data available



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f) Flammability: no data available g) Explosive limits (lower / upper): no data available h) Flash point: no data available i) Flashing temperature: no data available j) Decomposition temperature: no data available k) pH value: 5-7 no data available I) Kinematic viscosity: m) Solubility in water: no data available

m) Solubility in water:
n) Dispersion coefficient (o/w):
n) Vapour pressure (20°C):
p) Specific gravity:
q) Relative vapour density (air=1):
r) Particle size:
no data available
no data available
no data available
no data available

9.2 Other information

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required. **Properties relevant to substance groups**

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 the storage temperature printed on it.

10.5 Incompatible materials

no additional data available

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 the hazard classes according regulation (EC) 1272/2008

Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.

8 mL Ammonium 10-200 (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: -

Japan CSCL/PRTR: not listed, Japan PDSCL: not listed
Japan ISHL: listed ≥1,0%/≥1,0% SDS required

Korea Exist.Chem.Inventory: KE-31487

LD50 _{orl rat}: [< 1%] > 50000 mg/kg LD50 _{orl mus}: [< 1%] > 4000 mg/kg

Chemical: sodium salicylate CAS No.: 54-21-7

TSCA Inventory: listed
Korea Exist.Chem.Inventory: KE-20384
LD50 orl rat: 1000 mg/kg
LC_Low orl hmn: 700 mg/kg



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20 x 18 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

LC_Low _{orl rat}: 20 mg/kg
Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

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

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

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

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 Low orl hmn: 3570 mg/kg

11.2 Other hazards

Possible endocrine disrupting effects

no data available

Other information

no additional data available

SECTION 12: Ecological information

12.1 **Toxicity**

Following information is valid for pure substances.

8 mL Ammonium 10-200 (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.: 0142 nwg

Storage class (VCI):

Chemical: CAS No.: 54-21-7 sodium salicylate

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 0,0413 mg/L

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

20 x 18 mg NANOFIX Ammonium (R2)

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

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):

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

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

12.6 Endocrine disrupting properties

no data available

12.7 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

Not necessary, see above.

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

Dangerous Substances Protection Act (DE: Chemikaliengesetz - ChemG), Aug 2013, Stand: Okt 2020

Ordinance on protection against dangerous substances (E: Gefahrstoffverordnung - GefStoffV), Nov 2010, Stand: Mrz 2017

TRGS 201, Classification and labeling of activities involving hazardous substances, Feb 2017

TRGS 220, National aspects when preparing safety data sheets, Jan 2017

TRGS 400, Risk assessment for activities involving hazardous substances, Jul 2017

BekGS 408, Application of the GefStoffV and the TRGS with the entry into force of the CLP regulation, December 2009, status: Jan

2012

MN leaflet/instructions for use, also at www.mn-net.com

If necessary, observe other country-specific regulations.

15.2 Chemical safety assessment

not necessary for these small amounts

SECTION 16: Other information

16.1 Changes compared to the last version

Between versions 2.2.4.2 and 2.2.2.2 following changes were applied: - 2 composition data corrected

16.2 List of H and P phrases

16.2.1 List of relevant H phrases

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

16.2.2 List of relevant P phrases

P264W Wash with water thoroughly after handling. P280sh Wear protective gloves/eye protection.

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

P330 Rinse mouth.



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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 Sources of key data

KÜHN, BIRETT leaflets on dangerous working materials
Directive 1999/92/EG Minimum requirements to improve the safety and health protection of workers at risk from potentially explosive

SUVA .CH, limit values in the air at work 2009, revised on 01/2009

Regulation 790/2009/EU Adaptation of the CLP Regulation 1272/2008/EU to technical and scientific progress

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE PREPARATION OF SAFETY DATA SHEET

Regulation 487/2013/EU, 4. Adaptation of the CLP regulation to technical and scientific progress Regulation 669/2018/EU, 4. Adaptation of the CLP regulation to technical and scientific progress

Regulation 1480/2018/EU, 4. Adaptation of the CLP regulation to technical and scientific progress

TRGS 900, German engineering rules on limit values in the air at work, as of 03/2019

Regulation 878/2020/EŬ

Regulation 849/2021/EU, 4. Adaptation of the CLP regulation to technical and scientific progress

Revisions/Updates

Reason for revision: 2014-02 Corrected structure of the sections according to Regulation 453/2010/EU, if necessary

2014-04 Adjustment of Regulation 487/2013/EU 2016-03 Adjustment of Regulation 1221/2015/EU

2017-11 adaptation of the ECHA registration dossier 2022-11 Adjustment of Regulation 878/2020/EU

16.5 **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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16.6 Legend / Abbreviations

acc: according

ADR: Convention concerning the International Carriage of Dangerous Goods by Road

Act:

BAT: biological workplace tolerance value

Cargo Aircraft Only CAO.

Carc: carcinogen

CAS: Chemical Abstracts Service CLP:

Classification, Labelling and Packaging regulation

CMR: carcinogen, mutagen, reproduction toxic

Corr: corrosive

chemical oxigen demand COD:

CSCL: Chemical Substance Control Law (Jp)

Dam:

DNEL: Derived No-Effect Level (for workers) derm: dermal

dog

dog: EC10:

Concentration causing a toxic effect in 10% of the test organisms

EC: **European Community** EC-Nr:

Substance number of the EC substance inventory EmS: Guide to accident management measures on ships

Furopean Union FU: fish: fish (not spezified)

Global Harmonized System of Classification and Labeling of Chemicals GHS:

gpg: ICAO:

International Civil Aviation Organization

ihl: inhaled

IMDG: International Maritime Dangerous Goods Code

intrav: intravenous intraperitonaeal ipt:

iSHL: Industrial Safety and Health Law (Jp)

LC50: letale concentration 50%

I D50: letale dosis 50%

leuciscus idus: fisch, ide, orfe



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MAK. maximum workplace concentration

Met: Metall mus: mouse Muta: mutagen

NIOSH: National Institute for Occupational Safety and Health (US)

Non-rapidly degradable NRD:

fish, rainbow trout onchorhynchus mykiss:

oral

OSHA: Occupational Safety and Health Administration transport on passenger planes allowed PAX: PBT: persistent, bioaccumulating, toxic substance

pH value pH:

pimephales promelas: fish, fathead minnow PNEC: Predicted No Effected Concentration PROC 15: Process category 'for laboratory use'

Law for PRTR and Promotion of Chemical Management (Jp) PRTR:

PVC: polyvinyl chloride quail: bird, quail rat: rat rabbit

rbt: rapidly degradable RD:

RE: repeated

REACh: Registration, Evaluation, Authorisation and Restriction of Chemicals

REF: item number, reference number

Reg.No.: rRegistration number harmful to reproduction Repr:

Resp: RIP: respiratory

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scu: sub cutan SDS: safety data sheet sensitisation Sens:

STEL: short term exposure limit Specific Target Organ Toxicity STOT: SVHC: Substance of Very High Concern

t/a: tons per year

TCCA: Toxic Chemicals Control Act (S. Korea) Tox: toxic TSCA: The Toxic Substances Control Act (US)

TWA. time weighted average technical regulations (DE) TRGS:

vPvB: very persistent, very bioaccumulating substance

16.7 **Training advice**

Regular safety training. 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.



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