

# **Safety Data Sheet**

## according to Regulations REACh 1907/2006/EC

NANOCOLOR Ammonium 3 Page: 1/11 Printing date: 04.04.2023 Date of issue: 26.01.2023 Version: 2.2.3.3

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

1.1 **Product identifier** 

> REF 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.

1 x 20x 14 mg NANOFIX Ammonium (R2) UFI: 41HU-03AU-H20P-9Q9R 20 x 4 mL Ammonium 3 (R0) UFI: 0T2U-231Q-C20G-E4JT

#### 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. DE: Gemeinsames Giftinformationszentrum (GGIZ)

99089 Erfurt tel. +49 361 730 730, < https://www.ggiz-erfurt.de>

You find our current versions of SDS in Internet:

<a href="http://www.mn-net.com/SDS">http://www.mn-net.com/SDS</a>

### **SECTION 2: Hazard identification**

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





GHS07

GHS08

Signal word WARNING

Hazard identification Hazard classes/categories

H302 Acute Tox. 4 oral

H361f Repr. 2

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

4 mL Ammonium 3 (R0)





Software: M2 V 6.1.1.5

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www.mn-net.com

DE Tel.: +49 24 21 969-0 info@mn-net.com

CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com

FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com

## CHEREY-NAGEI



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> WARNING Signal word

Hazard identification Hazard classes/categories H361f

20x 14 mg NANOFIX Ammonium (R2)



Signal word WARNING

**Hazard identification** Hazard classes/categories

H302 Acute Tox. 4 oral

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).

4 mL Ammonium 3 (R0)



Signal word: WARNING

H361f

Suspected of damaging fertility.

P201, P280sh

Obtain special instructions before use. Wear protective gloves/eye protection.

20x 14 mg NANOFIX Ammonium (R2)



Signal word: WARNING

## Label elements of the complete product





Signal word: WARNING H361f Suspected of damaging fertility.

Obtain special instructions before use. Wear protective gloves/eye protection.

#### 2.3 Other hazards



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www.mn-net.com

DE Tel.: +49 24 21 969-0 info@mn-net.com

CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com

FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com



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### 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. Suspected of damaging fertility.

Information pertaining to particular risks to the environment

PBT: not applicable vPvB: not applicable Possible endocrine disrupting effects

no data available

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

#### 3.1 Substances or 3.2 Mixtures

20x 14 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: 3 - <10 %

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

4 mL Ammonium 3 (R0)

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<sub>7</sub>H<sub>5</sub>NaO<sub>3</sub>

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

EC No.: 200-198-0 Concentration: 0.3 - <10 %

acc. CLP (GHS): H361, Repr. 2, H361f, Repr. 2

Substance name: *tri-sodium citrate* CAS No.: 6132-04-3

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

Formula: C 6 H 5 Na 3 O 7 •2H 2 O Pseudonym (de): Na-citrat, E331 REACH Reg. No.: 01-2119457027-40-xxxx

EC No.: 200-675-3 Concentration: 1 - <10 %

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



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FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com
US Tel.: +1 888 321 62 24 sales-us@mn-net.com



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Substance name: sodium hydroxide solution

CAS No.: 1310-73-2

Substance rating: H314, Skin Corr. 1B Formula: NaOH•H 2 O Pseudonym (de): Natronlauge

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

EC No.: 215-185-5 Indice No.: 011-002-00-6 Concentration: 0,01 - <0,5 %

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 16.2.

### **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

CMR Effekte: Suspected of damaging fertility.

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

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## **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.

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.

## 5.4 Additional information



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52355 Düren · Germany www.mn-net.com

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CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com



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### **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). 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

PBT: not applicable vPvB: not applicable

## 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. 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): 8B Water hazard class (DE): 3

#### 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.

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

## 8.1 Control parameters

## 20x 14 mg NANOFIX Ammonium (R2)

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

## 4 mL Ammonium 3 (R0)

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

DNEL: 1,32 mg/m³
DNEL = Derived No-Effect Level (for workers)
PNEC (fresh water): 0,0413 mg/L
PNEC = Predicted No Effected Concentration

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

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

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: (=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/m<sup>3</sup>



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Valencienner Str. 11 52355 Düren · Germany www.mn-net.com DE Tel.: +49 24 21 969-0 info@mn-net.com
CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com
FB Tel.: +33 388 68 22 68 sales-fr@mn-net.com

US Tel.: +1 888 321 62 24 sales-us@mn-net.com



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### 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 Eve / Face Protection

Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.

## 8.2.4 Skin protection

Recommended 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.

powder (solid)

#### 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

# 20x 14 mg NANOFIX Ammonium (R2) a) State of aggregation:

b) Colour: rose c) Odor: chloric d) Melting point: no data available 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: 5-7 I) Kinematic viscosity: no data available m) Solubility in water: no data available n) Dispersion 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

## 4 mL Ammonium 3 (R0)

a) State of aggregation: liquid b) Colour: colourless c) Odor: odorless d) Melting point: no data available e) Boiling point: no data available f) Flammability: no data available g) Explosive limits (lower / upper): h) Flash point: no data available 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 0-100 % m) Solubility in water: n) Dispersion coefficient (o/w): no data available o) Vapour pressure (20°C): no data available no data available p) Specific gravity: q) Relative vapour density (air=1): no data available r) Particle size: no data available



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### 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. No more required.

## 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.

## 20x 14 mg NANOFIX Ammonium (R2)

Chemical: sodium nitroprusside 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 Low orl 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: 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

LD50 <sub>orl rat</sub>: 550-1600 mg/kg LC\_Low <sub>orl hmn</sub>: 3570 mg/kg

### 4 mL Ammonium 3 (R0)

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

Carcinogenic Effects: Suspected of damaging fertility or the unborn child. Suspected of damaging fertility.

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



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FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com
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> Chemical: sodium hydroxide solution CAS No.: 1310-73-2

TSCA Inventory: California Proposition 65 List: not listed listed

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

Target Organs: Eyes, skin, respiratory system

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

Australia NICNAS: not listed Canada CEPA 1999: DSL Yes

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

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

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

[40%] 1250 / [<25%] >2000 mg/kg LD50 orl rat:

LD50 orl mus: 40 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.

20x 14 mg NANOFIX Ammonium (R2)

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

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

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

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

4 mL Ammonium 3 (R0)

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

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

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

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

LC50 fish/96h: 18-32 a/L EC50 daphnia/48h: 5.6-10 g/L EC50 chlorella vulgaris/5d : >18-32 g/L

EC10 pseudomonas putita/16h: EC50 ps. fluorescens/8h: >1.8-3.2 g/L

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

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 <sub>daphnia/48h</sub>: Water hazard class (DE): >100 mg/L

WGK No.: 142

Storage class (VCI): 8 B

#### 12.2 Persistence and degradability

not necessary

#### 12.3 Bioaccumulative potential



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not necessary

### 12.4 Mobility in soil

not necessary

### 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 Carriage in bulk by sea in accordance with IMO instruments

Not applicable.

## **SECTION 15: Regulatory information**

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Chemicals Prohibition Ordinance - (DE: ChemVerbotsV), aktualisiert Jan 2017

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

Wasserhaushaltsgesetz - WHG, Section 3 Handling substances hazardous to water, Jul 2009, status: Aug 2016

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 2.2.3.3 and 2.2.2.2 following changes were applied: - 1 composition data corrected - 1 substance data corrected

## 16.2 List of H and P phrases

## 16.2.1 List of relevant H phrases

H302 Harmful if swallowed.

H361 Suspected of damaging fertility or the unborn child.



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52355 Düren · Germany

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CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com
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> H361f Suspected of damaging fertility.

16.2.2 List of relevant P phrases

Obtain special instructions before use. P201 P280sh Wear protective gloves/eye protection.

#### 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.

#### 16.4 Sources of key data

KÜHN. BIRETT. Leaflets on hazardous materials. 2021

Directive 1999/92/EG Minimum requirements to improve the safety and health protection of workers at risk from potentially explosive

Directive 2004/37/EC on the protection of workers from the risk of carcinogens or mutagens at workSUVA .CH, limit values in the air at work 2009, revised on 01/2009

Regulation 790/2009/EU, adaptation of Regulation 1272/2008/EU to technical and scientific progress (1st ATP)

Regulation 453/2010/EU, adaptation of the REACH regulation 1907/2006/EG

Regulation 487/2013/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (4th ATP) Regulation 1221/2015/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (7th ATP) Regulation 776/2017/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (10th ATP)

TRGS 905, German rules of technology for carcinogenic and mutagenic substances, as of March 18, 2016

Regulation 669/2018/EU, adaptation of Regulation 1272/2008/EC to technical and scientific progressText (11th ATP) Regulation 1480/2018/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (13th ATP) Regulation 521/2019/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (12th ATP)

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

Regulation 217/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (14th ATP)

Regulation 878/2020/EU, adaptation of Annex II of the REACH regulation 1907/2006/EG

Regulation 1182/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (15th ATP) Regulation 643/2021/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (16th ATP) Regulation 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP)

#### revisions/updates

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

2014-04 adjustment according Regulation 487/2013/EU 2016-03 adjustment according Regulation 1221/2015/EU

2017-11 adjustment according the ECHA registration dossier 2022-11 adjustment according Regulation 878/2020/EU

#### 16.5 Further information

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#### 16.6 Legend / Abbreviations

acc: according

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

Act:

biological workplace tolerance value BAT:

CAO: Cargo Aircraft Only

carcinogen Carc:

Chemical Abstracts Service CAS:

Classification, Labelling and Packaging regulation CLP:

CMR: carcinogen, mutagen, reproduction toxic

Corr: corrosive

COD: chemical oxigen demand

CSCL: Chemical Substance Control Law (Jp)

Dam:

DNEL: Derived No-Effect Level (for workers)

derm: dermal

dog:

EC10: Concentration causing a toxic effect in 10% of the test organisms



MACHEREY-NAGEL GmbH & Co. KG DE Tel.: +49 24 21 969-0 info@mn-net.com Valencienner Str. 11 CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com 52355 Düren · Germany FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com

www.mn-net.com US Tel.: +1 888 321 62 24 sales-us@mn-net.com

## CHEREY-NAGEI



# **Safety Data Sheet**

## according to Regulations REACh 1907/2006/EC

REF: 985003 NANOCOLOR Ammonium 3 Page: 11/11 Date of issue: 26.01.2023 Printing date: 04.04.2023 Version: 2.2.3.3

**European Community** EC:

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

EU: European Union fish: fish (not spezified)

GHS: Global Harmonized System of Classification and Labeling of Chemicals

guinea pig gpg:

ĬĊĂO: International Civil Aviation Organization

ihl:

IMDG: International Maritime Dangerous Goods Code

intrav: intravenous intraperitonaeal ipt:

İSHL: Industrial Safety and Health Law (Jp)

LC50: letale concentration 50% LD50: letale dosis 50%

leuciscus idus: fisch, ide, orfe MAK: maximum workplace concentration

Metall Met: mus: mouse Muta: mutagen

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

NRD: Non-rapidly degradable

onchorhynchus mykiss: fish, rainbow trout

orl: oral

OSHA: Occupational Safety and Health Administration PAX: transport on passenger planes allowed 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'

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

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

RD: rapidly degradable

RF: repeated

REACh: Registration, Evaluation, Authorisation and Restriction of Chemicals

REF item number, reference number

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

Resp: respiratory

**REACH Implementations Projects** RIP:

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

STEL: short term exposure limit STOT: Specific Target Organ Toxicity 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)

time weighted average TWA. 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.



MACHEREY-NAGEL GmbH & Co. KG

Valencienner Str. 11 52355 Düren · Germany www.mn-net.com

DE Tel.: +49 24 21 969-0 info@mn-net.com CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com

FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com US Tel.: +1 888 321 62 24 sales-us@mn-net.com