# CHEREY-NAGE



# **Safety Data Sheet**

# according to Regulations REACh 1907/2006/EC

NANOCOLOR Ammonium 50, Robot Page: 1/11 Printing date: 15.05.2024 Date of issue: 01.02.2024 Version: 2.2.3.5

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

1.1 **Product identifier** 

> REF 985605

Product name NANOCOLOR Ammonium 50, 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.

1 x 20x 14 mg NANOFIX Ammonium (R2) UFI: 41HU-03AU-H20P-9Q9R

20 x Test tube, empty

20 x 8 mL Ammonium 50 reagent A (R0)

#### 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

Signal word **WARNING** 

Hazard identification Hazard classes/categories

H302 Acute Tox. 4 oral

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

8 mL Ammonium 50 reagent A (R0)

Do not need labelling as hazardous

Signal word

No hazard class

20x 14 mg NANOFIX Ammonium (R2)



Software: M2 V 6.1.5.0

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



# **Safety Data Sheet**

# according to Regulations REACh 1907/2006/EC

 REF: 985605
 NANOCOLOR Ammonium 50, Robot
 Page: 2/11

 Printing date: 15.05.2024
 Date of issue: 01.02.2024
 Version: 2.2.3.5



GHS07

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

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 50 reagent A (R0)

Do not need labelling as hazardous Signal word: -

20x 14 mg NANOFIX Ammonium (R2)



GHS07

Signal word: WARNING

Test tube, empty

Do not need labelling as hazardous

Signal word: -

### Label elements of the complete product



GHS07

Signal word: WARNING

### 2.3 Other hazards

Possible hazards from physicochemical properties

no data available

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

PBT: not applicable vPvB: not applicable

Possible endocrine disrupting effects

no data available



Software: M2 V 6.1.5.0

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



# **Safety Data Sheet**

# according to Regulations REACh 1907/2006/EC

 REF: 985605
 NANOCOLOR Ammonium 50, Robot
 Page: 3/11

 Printing date: 15.05.2024
 Date of issue: 01.02.2024
 Version: 2.2.3.5

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

### 3.1 Substances or 3.2 Mixtures

8 mL Ammonium 50 reagent A (R0)

Substance name: sodium hydroxide solution

CAS No.: 1310-73-2

Substance rating: H314, Skin Corr. 1 A Formula: NaOH•H 2 O verdünnte Natronlauge REACH Reg. No.: H314, Skin Corr. 1 A vardünnte Natronlauge 01-2119457892-27-xxxx

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

Specific concentration limit: Eye Irrit. 2; H319: 0,5 % ≤ C < 2 % - Skin Corr. 1A; H314: C ≥ 5 % - Skin Corr. 1B;

H314: 2 % ≤ C < 5 % - Skin Irrit. 2; H315: 0,5 % ≤ C < 2 %

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

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

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

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

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: 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: 5 - <15 %

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

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, resp. irrit. STOT SE 3, H410,

Aquatic Chronic 1, EUH031, 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.



 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.

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



# **Safety Data Sheet**

# according to Regulations REACh 1907/2006/EC

 REF: 985605
 NANOCOLOR Ammonium 50, Robot
 Page: 4/11

 Printing date: 15.05.2024
 Date of issue: 01.02.2024
 Version: 2.2.3.5

Test tube, empty

Substance name: Packaging - no content

CAS No.:

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

Concentration: 99 - <100 %

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

There are no known delayed symptoms or effects for this product.

### 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.

### 5.4 Additional information

no data available

### **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Regular staff training is necessary.



Software: M2 V 6.1.5.0

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

## CHEREY-NAGEI



# **Safety Data Sheet**

# according to Regulations REACh 1907/2006/EC

REF: 985605 NANOCOLOR Ammonium 50, Robot Page: 5/11 Printing date: 15.05.2024 Date of issue: 01.02.2024 Version: 2.2.3.5

#### 6.2 **Environmental precautions**

not applicable vPvB: not applicable

#### 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

no data available

### **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 from MACHEREY-NAGEL. Storage class (German chemical industry): see chapter 12.1

Storage class (VCI): 6 1B 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.

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

#### 8.1 Control parameters

Test tube, empty

Chemical: Packaging - no content CAS No .: -

20x 14 mg NANOFIX Ammonium (R2)

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

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

not listed

8 mL Ammonium 50 reagent A (R0)

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

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

1,32 mg/m<sup>3</sup>

DNEL = Derived No-Effect Level (for workers)

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

#### 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.



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

## ACHEREY-NAGEI



# **Safety Data Sheet**

# according to Regulations REACh 1907/2006/EC

REF: 985605 NANOCOLOR Ammonium 50, Robot Page: 6/11 Printing date: 15.05.2024 Date of issue: 01.02.2024 Version: 2.2.3.5

#### 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.

#### Thermal hazards 8.2.6

no data available

#### Limitation and monitoring of environmental exposure 8.3

Do not release product into environment.

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

### Test tube, empty

a) State of aggregation: solid 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): no data available h) Flash point: no data available i) Flashing temperature: no data available j) Decomposition temperature: no data available k) pH value: no data available I) Kinematic viscosity: no data available m) Solubility in water: no data available n) Dispersion coefficient (K 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

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

powder (solid) 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 (K <sub>o/w</sub> ): 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

## 8 mL Ammonium 50 reagent A (R0)

r) Particle size:

a) State of aggregation: liauid 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): no data available h) Flash point: no data available



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

no data available



# **Safety Data Sheet**

# according to Regulations REACh 1907/2006/EC

REF: 985605 NANOCOLOR Ammonium 50, Robot Page: 7/11 Date of issue: 01.02.2024 Printing date: 15.05.2024 Version: 2.2.3.5

> no data available i) Flashing temperature: j) Decomposition temperature: no data available

k) pH value: 12-13

I) Kinematic viscosity: no data available m) Solubility in water: 0-100 %

n) Dispersion coefficient (K 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

#### 9.2 Other information

#### 9.2.1 Information on physical hazard classes

no data available

#### 9.2.2 Other safety-related parameters

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required.

## 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.

Test tube, empty

Chemical: Packaging - no content CAS No .: -

### 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 ma/ka LC\_Low orl rat 20 mg/kg

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

Chemical: CAS No.: 2893-78-9 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



MACHEREY-NAGEL GmbH & Co. KG

DE Tel.: +49 24 21 969-0 info@mn-net.com CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com Valencienner Str. 11 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-NAGE



# **Safety Data Sheet**

# according to Regulations REACh 1907/2006/EC

REF: 985605 NANOCOLOR Ammonium 50, Robot Page: 8/11 Printing date: 15.05.2024 Date of issue: 01.02.2024 Version: 2.2.3.5

> 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\_Low orl hmn:

8 mL Ammonium 50 reagent A (R0)

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

California Proposition 65 List: not listed TSCA Inventory: 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: CAS No.: 54-21-7 sodium salicylate

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

Test tube, empty

Substance name: Packaging - no content CAS-Nr.: -

20x 14 mg NANOFIX Ammonium (R2)

Substance name: sodium nitroprusside CAS-Nr.: 13755-38-9

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

CAS-Nr.: 2893-78-9 Substance name: dichloroisocyanuric acid, Na salt

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

8 mL Ammonium 50 reagent A (R0)

Substance name: sodium hydroxide solution CAS-Nr.: 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 nwa WGK No.: 0142

Storage class (VCI): 12-13

Substance name: sodium salicylate CAS-Nr.: 54-21-7

PNEC (fresh water): 0,0413 mg/L
PNEC = Predicted No Effected Concentration = concentration at which no effect on the environment is expected

Water hazard class (DE): 1 Storage class (VCI): 12-13



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



# **Safety Data Sheet**

# according to Regulations REACh 1907/2006/EC

 REF: 985605
 NANOCOLOR Ammonium 50, Robot
 Page: 9/11

 Printing date: 15.05.2024
 Date of issue: 01.02.2024
 Version: 2.2.3.5

- 12.2 Persistence and degradability
- 12.3 Bioaccumulative potential
- 12.4 Mobility in soil
- 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

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 2.2.3.5 and 2.2.2.2 following changes were applied: - 1 composition data corrected - 3 substance data corrected

### 16.2 List of H and P phrases

### 16.2.1 List of relevant H phrases



Software: M2 V 6.1.5.0

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



# Safety Data Sheet

# according to Regulations REACh 1907/2006/EC

REF: 985605 NANOCOLOR Ammonium 50, Robot Page: 10/11 Printing date: 15.05.2024 Date of issue: 01.02.2024 Version: 2.2.3.5

> Н Between versions 2.2.3.5 and 2.2.2.2 following changes were applied: - 1 composition data corrected - 3

substance data corrected

H302 Harmful if swallowed

#### 16.2.2 List of relevant P phrases

### 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

16.3

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

SUVA .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)

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) Regulation 692/2022/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (18th 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**

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.

MACHEREY-NAGEL GmbH & Co. KG makes NO REPRESENTATIONS or WARRANTIES, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly MACHEREY-NAGEL GmbH & Co. KG will not be responsible for damages resulting from use of or reliance upon this information. See terms and conditions at the end of our price lists for additional information.

#### 16.6 Legend / Abbreviations

acc: according

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

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

corrosive Corr-

COD. chemical oxigen demand

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



Software: M2 V 6.1.5.0

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

# CHEREY-NAGEI



# **Safety Data Sheet**

# according to Regulations REACh 1907/2006/EC

REF: 985605 NANOCOLOR Ammonium 50, Robot Page: 11/11 Date of issue: 01.02.2024 Printing date: 15.05.2024 Version: 2.2.3.5

FmS<sup>-</sup> Guide to accident management measures on ships

EU: **European Union** fish: fish (not spezified)

GHS: Global Harmonized System of Classification and Labeling of Chemicals

gpg: International Civil Aviation Organization

ihl: inhaled

IMDG: International Maritime Dangerous Goods Code

intrav: intravenous ipt: intraperitonaeal

İSHL: Industrial Safety and Health Law (Jp)

LC50: letale concentration 50%

LD50: letale dosis 50%

leuciscus idus: fisch, ide, orfe 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 orl.

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

pH: pH value

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

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

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

rabbit rht. rapidly degradable RD:

RE: repeated

REACh: Registration, Evaluation, Authorisation and Restriction of Chemicals

REF: item number, reference number

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

Resp: respiratory

RIP: **REACH Implementations Projects** 

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

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

tons per year t/a

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

TWA: time weighted average

TRGS: technical regulations (DE)

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.



Software: M2 V 6.1.5.0

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