CHEREY-NAGE



Safety Data Sheet

according to Regulations REACh 1907/2006/EC

REF: 985605.1 NANOCOLOR Ammonium 50, Robot Page: 1/11 Date of issue: 01.08.2025 Printing date: 13.10.2025 Version: 3.6.1.1

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

1.1 **Product identifier**

> REF 985605.1

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 20 x 175 mg Ammonium 3 Robot R2 UFI: YS2X-63JN-220E-TUNP

20 x 8.4 mL Ammonium 50 robot reagent A

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:

http://www.mn-net.com/SDS

SECTION 2: Hazard identification

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







GHS05

GHS07 GHS08

Signal word **DANGER**

Hazard identification Hazard classes/categories H315 Skin Irrit 2 H318 Eye Dam. 1 H361d Repr. 2 H373 STOT RE 2

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

20 x 175 mg Ammonium 3 Robot R2







GHS05

GHS07

GHS08

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

Cianal word



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Hazard identification	Hazard classes/categories
H318	Eye Dam. 1
H319	Eye Irrit. 2
H361	Repr. 2
H361d	Repr. 2
H373	STOT RE 2

DANCED

8.4 mL Ammonium 50 robot reagent A

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).

20 x 175 mg Ammonium 3 Robot R2





...

GHS08

Signal word: DANGER

H318, H361d

Causes serious eye damage. Suspected of damaging the unborn child.

P201, P280sh, P305+351+338, P310

Obtain special instructions before use. Wear protective gloves/eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

8.4 mL Ammonium 50 robot reagent A

Do not need labelling as hazardous Signal word: -

Label elements of the complete product





GHS05

GHS08

Signal word: DANGER

H318, H361d

Causes serious eye damage. Suspected of damaging the unborn child.

P201, P280sh, P305+351+338, P310

Obtain special instructions before use. Wear protective gloves/eye protection.IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

2.3 Other hazards

Possible hazards from physicochemical properties

Generally in the case of pH values are less than 2 or higher than 11.5 then it is corrosive. In the case of pH values are less than 5 or higher than 9 then it is irritant.



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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



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Information pertaining to particular risks to human and possible symptoms

Causes varying degrees of acid burns on the skin, to the eyes and to the mucous membranes and wounds which do not heal quickly depending on the concentration, temperature and the exposure time. Vapours especially which steam from hot liquids and mist can have a severe irritant effect upon the eyes and the respiratory organs.

Suspected of damaging the unborn child.

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

20 x 175 mg Ammonium 3 Robot R2

Substance name: *lithium hydroxide* CAS No.: 1310-65-2

Substance rating: H302, Acute Tox. 4 oral, H314, Skin Corr. 1 B, H318, Eye Dam. 1

Formula: LiOH

Pseudonym (de): Lithiumhydrat

REACH Reg. No.: 01-2119560576-31-xxxx

EC No.: 215-183-4 Concentration: 3 - <5 %

acc. CLP (GHS): H315, Skin Irrit. 2, H318, Eye Dam. 1

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: C₇H₅NaO₃

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

EC No.: 200-198-0 Concentration: 10 - <35 %

acc. CLP (GHS): H319, Eye Irrit. 2, H361, Repr. 2, H361d, Repr. 2

Substance name: ethylendinitrilo tetraacetic acid, di Na-salt (EDTA-Na)

CAS No.: 6381-92-6

Substance rating: H332, Acute Tox. 4 inh., H373, resp. irrit. STOT SE 3

Formula: C 10 H 14 N 2 Na 2 O 8 • 2 H 2 O

Pseudonym (de): Titriplex® III EC No.: 205-358-3 Concentration: 5 - <10 %

acc. CLP (GHS): H373, STOT RE 2

8.4 mL Ammonium 50 robot reagent A

Substance name: water CAS No.: 7732-18-5

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

Formula: H ₂ O REACH Reg. No.: exempt, Annex IV EC No.: 231-791-2 Concentration: 90 - <100 %

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



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52355 Düren · Germany

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



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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. Remove contaminated clothing. Show product package, packing insert and this material safety data sheet to the doctor.

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 for min. 10 minutes with eye washing bottle, eye douche or running water (protect intact eye). Before (if possible) apply eye drops Proxymetacaine 0.5%, if the opening the eyelid convulsion is painful. Further treatment to be carried out by an eye specialist.

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

Causes serious eye damage.

CMR Effekte: Suspected of damaging the unborn child.

4.3 Indication of any immediate medical attention and special treatment needed

After EYE CONTACT rinse immediately with plenty of water for a long time. Eyelid convulsion measures. Name the corrosive chemical. Further treatment must to be carried out by an eye specialist. ---

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

no data available

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). Wear eye protection, respectively face protection. 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



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



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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

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

Storage class (VCI): 8B Water hazard class (DE): 2

7.2.1 Requirements for stock rooms and containers

Keep original product packages tightly closed during handling and storage. Use inbreakable container for transport of glass bottles.

7.3 Specific end use(s)

Product for analytical use.

SECTION 8: Exposure controls /personal protection

8.1 Control parameters

20 x 175 mg Ammonium 3 Robot R2

Chemical: lithium hydroxide CAS No.: 1310-65-2

derm mg/kg bw/d; 10 inh mg/m³ DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 1.21 mg/L PNEC = Predicted No Effected Concentration

TRGS 900 (DE):

E/e respirable

SUVA(CH) MAK value: [als Li][MAK] 0,2 e/[STEL] 0,2 e mg/m³

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

DNEL: 1,32 mg/m³ DNEL = Derived No-Effect Level (for workers) PNEC (fresh water): U,U4 I3 IIIg/L PNEC = Predicted No Effected Concentration

Chemical: ethylendinitrilo tetraacetic acid, di Na-salt (EDTA-Na) CAS No.: 6381-92-6

DNEL: [inh] 1.5 mg/m³ DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 2.2 mg/L PNEC = Predicted No Effected Concentration

8.4 mL Ammonium 50 robot reagent A

CAS No : 7732-18-5 Chemical: water

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



Software: M2 V 6.1.5.0

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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



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

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

20 x 175 mg Ammonium 3 Robot R2

a) State of aggregation: powder (solid) b) Colour: . white 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: 12,5 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

8.4 mL Ammonium 50 robot reagent A

liquid a) State of aggregation: 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: 6-8 no data available I) Kinematic viscosity: 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: 1,00 g/cm³ 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



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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



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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.

ПП

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.

20 x 175 mg Ammonium 3 Robot R2

Chemical: *lithium hydroxide* CAS No.: 1310-65-2 TSCA Inventory: listed

Japan ISHL: listed ≥0,3%/≥0,1% Korea Exist.Chem.Inventory: KE-22570 LD50 orl rat: 210 mg/kg LC50 ihl rat: 3,4-6,15 mg/L/4H

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 the unborn child.

Chemical: ethylendinitrilo tetraacetic acid, di Na-salt (EDTA-Na) CAS No.: 6381-92-6

TSCA Inventory: listed (CAS 139-33-3)

LD50 orl rat: 2800 mg/kg

Chronic Effects: May cause damage to organs through prolonged or repeated exposure.

8.4 mL Ammonium 50 robot reagent A

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

TSCA Inventory: listed
Korea Exist.Chem.Inventory: KE-35400
LD50 orl rat: > 90000 mg/kg

11.2 Other hazards

Possible endocrine disrupting effects



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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

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no data available

Other information

no additional data available

SECTION 12: Ecological information

12.1 **Toxicity**

Following information is valid for pure substances.

20 x 175 mg Ammonium 3 Robot R2

Substance name: CAS-Nr.: 1310-65-2 lithium hydroxide

PNEC (fresh water): 1.21 mg/L
PNEC = Predicted No Effected Concentration = concentration at which no effect on the environment is expected

LC50 fish/96h: 109 mg/L EC50 daphnia/48h: 60 mg/L

EC50 pseudokirchneriella subcapitata/72h: IC50/72h: 44,74 mg/L Water hazard class (DE): 2 WGK No.: 2439

Storage class (VCI):

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

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): Storage class (VCI): 12-13

Substance name: ethylendinitrilo tetraacetic acid, di Na-salt (EDTA-Na) CAS-Nr.: 6381-92-6

PNEC (fresh water): 2.2 mg/L
PNEC = Predicted No Effected Concentration = concentration at which no effect on the environment is expected

LC50 fish/96h: [4d] 41-1592 mg/L EC50 daphnia/48h: 140 mg/L

[72h] 2.77-1000 mg/L IC50 scenedesmus quadricauda/72h: EC10 pseudomonas putita/16h [EC10, 30h] 500 mg/L

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

8.4 mL Ammonium 50 robot reagent A

Substance name: water CAS-Nr.: 7732-18-5

12.2 Persistence and degradability

12.3 Bioaccumulative potential

Substance name: ethylendinitrilo tetraacetic acid, di Na SAIS (ND:TBISIN)92-6

Dispersion coefficient (K o/w):

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



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

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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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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 Not necessary

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

TRGS 500, Protective measures, Mai 2008

TRGS 510, Storage of hazardous substances in portable containers from March 2013, status: Oct 2015

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

no data available

SECTION 16: Other information

16.1 Changes compared to the last version

Between versions 3.6.1.1 and 2.2.2.2 following changes were applied: -0 product data corrected - 4 product component data corrected

16.2 List of H and P phrases

16.2.1 List of relevant H phrases

H315

H318

Between versions 3.6.1.1 and 2.2.2.2 following changes were applied: -0 product data corrected - 4 product Н

> component data corrected Causes skin irritation. Causes serious eye damage.

H319 Causes serious eye irritation. Suspected of damaging fertility or the unborn child. H361

H361d Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

16.2.2 List of relevant P phrases

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to P305+351+338

do. Continue rinsing.

Immediately call a POISON CENTER/doctor. P310

16.3 Recommended restriction on use



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

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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 atmospheres

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) 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

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16.6 Legend / Abbreviations

acc: according

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

Act: acute

BAT: biological workplace tolerance value

CAO: Cargo Aircraft Only

Carc: carcinogen

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging regulation

CMR: carcinogen, mutagen, reproduction toxic

Corr: corrosive

COD: chemical oxigen demand

CSCL: Chemical Substance Control Law (Jp)

Dam: damage

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

EU: European Union fish: fish (not spezified)



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-NAGE



Safety Data Sheet

according to Regulations REACh 1907/2006/EC

REF: 985605.1 NANOCOLOR Ammonium 50, Robot Page: 11/11 Date of issue: 01.08.2025 Printing date: 13.10.2025 Version: 3.6.1.1

GHS: Global Harmonized System of Classification and Labeling of Chemicals

gpg: ICAO: guinea pig

International Civil Aviation Organization

ihl: inhaled

IMDG: International Maritime Dangerous Goods Code

intrav: intravenous ipt: intraperitonaeal

ISHL: Industrial Safety and Health Law (Jp)

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

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

Met: Metall mus: mouse Muta: mutagen

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

Non-rapidly degradable NRD:

onchorhynchus mykiss: fish, rainbow trout

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)

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

RD: rapidly degradable

repeated RF.

REACh: Registration, Evaluation, Authorisation and Restriction of Chemicals REF: item number, reference number

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

respiratory Resp:

RIP: **REACH Implementations Projects**

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

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

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

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