# CHEREY-NAGE



# **Safety Data Sheet**

# according to Regulations REACh 1907/2006/EC

REF: 976003 NANOCOLOR ECO Ammonium LR Page: 1/12 Date of issue: 01.02.2024 Printing date: 15.05.2024 Version: 2.4.4.5

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

1.1 **Product identifier** 

> RFF 976003

Product name NANOCOLOR ECO Ammonium LR

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.

2 x 100 mL Ammonium LR (R1) UFI: PHYW-Y3AJ-E20M-NVH7 2 x 50 x 14 mg NANOFIX Ammonium LR (R2) UFI: 41HU-03AU-H20P-9Q9R

#### 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 H315 Skin Irrit. 2 H319 Eye Irrit. 2 Repr. 2 H361f

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

100 mL Ammonium LR (R1)





GHS08

Software: M2 V 6.1.5.0

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Signal word WARNING

Hazard identification	Hazard classes/categories
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H361	Repr. 2
H361f	Repr. 2

#### 50 x 14 mg NANOFIX Ammonium LR (R2)



GHS07

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). 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).

## 100 mL Ammonium LR (R1)





NINO

GHS08

Signal word: WARNING

H361f

Suspected of damaging fertility.

P201, P280sh

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

## 50 x 14 mg NANOFIX Ammonium LR (R2)



GHS07

Signal word: WARNING

## Label elements of the complete product





GHS07

GHS08

Signal word: WARNING

H361f

Suspected of damaging fertility.

P201, P280sh

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



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#### 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. 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

100 mL Ammonium LR (R1)

Substance name: sodium hydroxide solution

CAS No.: 1310-73-2

Substance rating: H314, Skin Corr. 1 A Formula: NaOH•H 2 O

Pseudonym (de): verdünnte Natronlauge REACH Reg. No.: 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: 0,5 - <1 %

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

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: 0,3 - <10 %

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

Substance name: trisodium citrate dihydrate

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.: 612-118-5 Concentration: 1 - <10 %

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

50 x 14 mg NANOFIX Ammonium LR (R2)



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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.

#### 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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Software: M2 V 6.1.5.0

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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

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). 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

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.

### 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): 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

## 50 x 14 mg NANOFIX Ammonium LR (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



Software: M2 V 6.1.5.0

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100 mL Ammonium LR (R1)

Chemical: sodium salicylate 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:trisodium citrate dihydrateCAS No.: 6132-04-3Chemical:sodium hydroxide solutionCAS No.: 1310-73-2

### 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

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.

a) State of aggregation:

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

## 9.1 Information on basic physical and chemical properties

### 50 x 14 mg NANOFIX Ammonium LR (R2)

b) Colour: rose chloric c) Odor: 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 i) Decomposition temperature: no data available k) pH value: 5-7 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. no data available q) Relative vapour density (air=1): no data available r) Particle size: no data available

#### 100 mL Ammonium LR (R1)

a) State of aggregation:
b) Colour:
c) Odor:
d) Melting point:
e) Boiling point:
f) Flammability:
liquid
colourless
odorless
no data available
no data available
no data available



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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: 13-14 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

## 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. 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.

#### 50 x 14 mg NANOFIX Ammonium LR (R2)

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

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

Korea Exist.Chem.Inventory: not listed LD50 <sub>orl rat</sub>: 99 mg/kg LC\_Low <sub>orl rat</sub>: 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



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

100 mL Ammonium LR (R1)

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

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

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

trisodium citrate dihydrate CAS No.: 6132-04-3 Chemical:

TSCA Inventory: listed (CAS 68-04-2)

Korea Exist.Chem.Inventory: KE-20843 LD50 orl rat: > 8000 mg/kg

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

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

#### 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.

50 x 14 mg NANOFIX Ammonium LR (R2)

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

Water hazard class (DE): 3 Storage class (VCI): 61B

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

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

100 mL Ammonium LR (R1)

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): 12-13 Storage class (VCI):

trisodium citrate dihydrate CAS-Nr · 6132-04-3 Substance name:

LC50 fish/96h: 18-32 g/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): 12-13 Storage class (VCI):



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> CAS-Nr.: 1310-73-2 Substance name: sodium hydroxide solution

LC50 leuciscus idus/96h: 35-189 mg/L 45.4 mg/L LC50 fish/96h: EC50 daphnia/48h : >100 mg/L

WGK No.: 0142 Water hazard class (DE): nwg

12-13 Storage class (VCI):

#### 12.2 Persistence and degradability

#### 12.3 Bioaccumulative potential

#### 12.4 Mobility in soil

#### Results of PBT and vPvB assessment 12.5

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

Normally it is possible to empty small amounts (diluted!) into drains.

## **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

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.



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#### 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 2.4.4.5 and 2.2.2.2 following changes were applied: - 2 product component data corrected - 2 composition data corrected - 3 substance data corrected

#### 16.2 List of H and P phrases

#### 16.2.1 List of relevant H phrases

Between versions 2.4.4.5 and 2.2.2.2 following changes were applied: - 2 product component data

corrected - 2 composition data corrected - 3 substance data corrected

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

H361 Suspected of damaging fertility or the unborn child.

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.

#### Sources of key data 16.4

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/EÚ, 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 3, 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

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

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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# **Safety Data Sheet**

# according to Regulations REACh 1907/2006/EC

REF: 976003 NANOCOLOR ECO Ammonium LR Page: 11/12 Date of issue: 01.02.2024 Printing date: 15.05.2024 Version: 2.4.4.5

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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

COD: chemical oxigen demand

Chemical Substance Control Law (Jp) CSCL:

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

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

Global Harmonized System of Classification and Labeling of Chemicals GHS:

quinea pig

gpg: ICAO: 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 MAK: maximum workplace concentration

Met: Metall mus: mouse Muta: mutagen

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

NRD: Non-rapidly degradable

onchorhynchus mykiss: fish, rainbow trout

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'

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

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

rapidly degradable RD.

RF: repeated

REACh: Registration, Evaluation, Authorisation and Restriction of Chemicals

REF: item number, reference number

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

Resp: respiratory

RIP: **REACH Implementations Projects** 

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

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



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# CHEREY-NAGEI



# **Safety Data Sheet**

# according to Regulations REACh 1907/2006/EC

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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: 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.



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