

Safety Data Sheet

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

NANOCOLOR Sulfate LR 200 Page: 1/11 Printing date: 12.01.2023 Date of issue: 27.07.2022 Version: 2.2.2.2

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

1.1 **Product identifier**

> REF 985062

Product name NANOCOLOR Sulfate LR 200

REACH Registration number(s): see SECTION 3.1/3.2 or

A registration number for the substance(s) does not exist because the annual tonnage does not require registration or

the substance or its use is excluded from registration.

2 x 11 mL Sulfate LR 200 (R2)

20 x 65 mg Sulfate LR 200 (R1) UFI: UNJW-13T0-G20D-FP3J

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**

Lieferant | Supp Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service. Callenstr. 3-5
DE: Gemeinsames Giftinformationszentrum (GGIZ)
99089 Erfurt tel. +49 361 730 730 <a href="https://www.callenstr.com/services/bases/ba 85 Karlsruhe, Germany

You find our current versions of SDS in Internet:

">http://www.mn-net.com/\$D\$>"> 49 721 5606 0 sicherheit@cartroth.de

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 H332 Acute Tox. 4 inh. H373 STOT RE 2 H412 Aquatic Chronic 3

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

65 mg Sulfate LR 200 (R1)





GHS08



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



Safety Data Sheet

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

 REF: 985062
 NANOCOLOR Sulfate LR 200
 Page: 2/11

 Printing date: 12.01.2023
 Date of issue: 27.07.2022
 Version: 2.2.2.2

Signal word WARNING

jories

11 mL Sulfate LR 200 (R2)

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).

65 mg Sulfate LR 200 (R1)





GHS07

GHS08

Signal word: WARNING

11 mL Sulfate LR 200 (R2)

Do not need labelling as hazardous

Signal word: -

Label elements of the complete product





GHS07

GHS08

Signal word: WARNING

2.3 Other hazards

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.

Information pertaining to particular risks to the environment

Possible endocrine disrupting effects

no data available

SECTION 3: Composition / information on ingredients

3.1 Substances or 3.2 Mixtures

65 mg Sulfate LR 200 (R1)



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 1907/2006/EC (REACh) and 2015/830/EU

REF: 985062 NANOCOLOR Sulfate LR 200 Page: 3/11 Printing date: 12.01.2023 Date of issue: 27.07.2022 Version: 2.2.2.2

> Substance name: barium chloride 10361-37-2 CAS No.:

Substance rating: H301, Acute Tox. 3 oral, H332, Acute Tox. 4 inh.

Formula: BaCl₂

Pseudonym (de): Bariumdichlorid, Chlorbarium REACH Reg. No.: 01-2119502547-42-xxxx

056-004-00-8 EC No.: 233-788-1 Indice No.: Concentration: 20 - <29,35 % Correlation factor: x 0.66 (= %Ba)
The classification refers to the weight percentage of the metal (according to CLP regulation 2008/1272/EG Annex VI, 1.1.3.2 Note 1)

acc. CLP (GHS): H302, Acute Tox. 4 oral, H332, Acute Tox. 4 inh.

Substance name: hexadecyl-trimethylammonium bromide

CAS No .:

Substance rating: H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2, H410, Aquatic Chronic 2

Formula: C ₁₉ H ₄₂ BrN

612-140-00-5 EC No.: 264-151-6 Indice No.:

Concentration: 1 - <10 %

acc. CLP (GHS): H412, Aquatic Chronic 3

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

CAS No.: 6381-92-6

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

Formula: C₁₀ H₁₄ N₂ Na₂ O₈ • 2 H₂ O

Titriplex® III Pseudonym (de): 205-358-3 EC No.: Concentration: 30 - <40 % acc. CLP (GHS): H373, STOT RE 2

11 mL Sulfate LR 200 (R2)

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

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

Formula: H_2O REACH Reg. No.: exempt. Annex IV EC No.: 231-791-2 90 - <100 % Concentration:

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

Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use

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. ---



Software: M2 V 6.0.28.156

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



Safety Data Sheet

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

 REF: 985062
 NANOCOLOR Sulfate LR 200
 Page: 4/11

 Printing date: 12.01.2023
 Date of issue: 27.07.2022
 Version: 2.2.2.2

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

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Regular staff training is necessary.

6.2 Environmental precautions

not necessary, contains only small amounts of these substances

6.3 Methods and material for containment and cleaning up

Bind any escaping liquid with inert absorbent. Collect small amounts of leaked liquid and flush with water into drains.

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product. Use a safety bottle when shaking test tubes.

7.2 Conditions for safe storage, including any incompatibilities

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

8.1B
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.



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



Safety Data Sheet

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

 REF: 985062
 NANOCOLOR Sulfate LR 200
 Page: 5/11

 Printing date: 12.01.2023
 Date of issue: 27.07.2022
 Version: 2.2.2.2

SECTION 8: Exposure controls /personal protection

8.1 Control parameters

65 mg Sulfate LR 200 (R1)

Chemical: barium chloride CAS No.: 10361-37-2

EU value: 0.5 Ba e mg/m³
TRGS 900 (DE): 0,5 Ba E mg/m³
E/e respirable

Short-term exposure factor: 1(I)

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 0,5 e mg/m³ NIOSH: TWA 0.5 Ba 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 0.5 Ba mg/m³

Chemical: hexadecyl-trimethylammonium bromide CAS No.: 57-09-0

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

11 mL Sulfate LR 200 (R2)

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

8.2 Exposure controls

Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleanliness must be maintained at the workplace.

8.2.1 Respiratory protection

No additional recommendations.

8.2.2 Skin protection / Hand protection

Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansell or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.

8.2.3 Eye / Face Protection

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

8.2.4 Skin protection

Not necessary.

8.2.5 Personal hygiene

Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

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

65 mg Sulfate LR 200 (R1)

solid (lyophilized) a) State of aggregation: b) Colour: white 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



MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11

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



Safety Data Sheet

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

 REF: 985062
 NANOCOLOR Sulfate LR 200
 Page: 6/11

 Printing date: 12.01.2023
 Date of issue: 27.07.2022
 Version: 2.2.2.2

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

11 mL Sulfate LR 200 (R2)

a) State of aggregation: liquid colourless b) Colour: 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: no data available 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: 1.00 g/cm³ q) Relative vapour density (air=1): no data available r) Particle size: no data available

9.2 Other information

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

SECTION 10: Stability and reactivity

10.1 Reactivity

no further data available.

10.2 Chemical stability

no known instability.

10.3 Possibility of hazardous reactions

No further data available.

10.4 Conditions to avoid

Observe the storage temperature printed on it.

10.5 Incompatible materials

no additional data available

10.6 Hazardous decomposition products

In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

SECTION 11: Toxicological information

11.1 Information on the hazard classes according regulation (EC) 1272/2008

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

65 mg Sulfate LR 200 (R1)



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



Safety Data Sheet

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

 REF: 985062
 NANOCOLOR Sulfate LR 200
 Page: 7/11

 Printing date: 12.01.2023
 Date of issue: 27.07.2022
 Version: 2.2.2.2

Chemical: barium chloride CAS No.: 10361-37-2

TSCA Inventory: listed

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

Target Organs: Eyes, skin, respiratory system, heart, central nervous system

Symptoms: irritation eyes, skin, upper respiratory system; skin burns; gastroenteritis; muscle spasm; slow pulse,

extrasystoles; hypokalemia

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

Japan ISHL: listed ≥1,0%/≥1,0% Korea Exist.Chem.Inventory: KE-02037 LD50 _{orl rat}: 118 mg/kg LC Low _{orl hmn}: 11,4 mg/kg

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

Chemical: hexadecyl-trimethylammonium bromide CAS No.: 57-09-0

TSCA Inventory: listed

Korea Exist.Chem.Inventory: KE-34534, Toxic 2000-1-509

LD50 _{orl rat}: 410 mg/kg

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.

11 mL Sulfate LR 200 (R2)

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

no data available

Other information

no additional data available

SECTION 12: Ecological information

12.1 Toxicity

Following information is valid for pure substances.

65 mg Sulfate LR 200 (R1)

Chemical: barium chloride CAS No.: 10361-37-2

LC50 leuciscus idus/96h : 870 mg/L EC50 daphnia/48h : 21.9 mg/L

Water hazard class (DE): 1 WGK No.: 0025

Storage class (VCI): 6.1 B

Chemical: hexadecyl-trimethylammonium bromide CAS No.: 57-09-0

Water hazard class (DE): 3
Storage class (VCI): 12-13

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

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

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

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

Water hazard class (DE): 2
Dispersion coefficient (o/w): -4,3
Storage class (VCI): 12-13



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



Safety Data Sheet

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

REF: 985062 NANOCOLOR Sulfate LR 200 Page: 8/11 Printing date: 12.01.2023 Date of issue: 27.07.2022 Version: 2.2.2.2

11 mL Sulfate LR 200 (R2)

CAS No.: 7732-18-5 Chemical:

12.2 Persistence and degradability

not necessary

12.3 Bioaccumulative potential

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, contains only small amounts of these substances

14.6 Special precautions for user

not necessary

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

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

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

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

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

TRGS 400, Risk assessment for activities involving hazardous substances, Jul 2017
BekGS 408, Application of the GefStoffV and the TRGS with the entry into force of the CLP regulation, December 2009, status: Jan

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



Software: M2 V 6.0.28.156

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



Safety Data Sheet

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

REF: 985062 NANOCOLOR Sulfate LR 200 Page: 9/11 Printing date: 12.01.2023 Date of issue: 27.07.2022 Version: 2.2.2.2

SECTION 16: Other information

16.1 Changes compared to the last version

16.2 List of H and P phrases

16.2.1 List of relevant H phrases

Harmful if swallowed. H332 Harmful if inhaled.

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

H412 Harmful to aquatic life with long lasting effects.

List of relevant P phrases 16.2.2

16.3 Recommended restriction on use

Only for professional user.

An individual package of this product or test kit has a moderate hazardous potential.

16.4 Sources of key data

KÜHN, BIRETT, Leaflets on 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)

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**

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

according acc:

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

Act: acute

BAT: biological workplace tolerance value

Cargo Aircraft Only CAO:

carcinogen Carc.

Chemical Abstracts Service CAS:

Classification, Labelling and Packaging regulation CLP:

CMR: carcinogen, mutagen, reproduction toxic

Corr: corrosive

chemical oxigen demand COD:



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 1907/2006/EC (REACh) and 2015/830/EU

REF: 985062 NANOCOLOR Sulfate LR 200 Page: 10/11 Printing date: 12.01.2023 Date of issue: 27.07.2022 Version: 2.2.2.2

CSCL: Chemical Substance Control Law (Jp)

Dam:

DNEL: Derived No-Effect Level (for workers)

derm: dermal dog: doa

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

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)

Global Harmonized System of Classification and Labeling of Chemicals GHS:

gpg:

ĬĊĂO: International Civil Aviation Organization

ihl:

IMDG: International Maritime Dangerous Goods Code

intrav: intravenous intraperitonaeal ipt:

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)

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: pH value

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 rbt: rabbit

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

Resp: respiratory

RIP: **REACH Implementations Projects**

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

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) toxic Tox:

TSCA:

The Toxic Substances Control Act (US)

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

vPvB: very persistent, very bioaccumulating substance



Software: M2 V 6.0.28.156

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



Safety Data Sheet

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

 REF: 985062
 NANOCOLOR Sulfate LR 200
 Page: 11/11

 Printing date: 12.01.2023
 Date of issue: 27.07.2022
 Version: 2.2.2.2

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

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