

according to Regulations REACh 1907/2006/EC

REF: 985062	NANOCOLOR Sulfate LR 200	Page: 1/11
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SECTION 1: Identification of the substance/mixture and of the company

1.1	Product identifier		
	REF	985062	
	Product name	NANOCOLOR Sulfate LR 20	00
	REACH Registration number(s): A registration number for the substa the substance or its use is excluded		2 or inual tonnage does not require registration or
	2 x 11 mL Sulfate LR 200 (R2)	
	20 x 65 mg Sulfate LR 200	,	JFI: UNJW-13T0-G20D-FP3J
1.2	Relevant identified uses of the Relevant identified uses	substance or mixture	and uses advised against
	Product for analytical use. Exposure Scenario Classification The exposure scenario is integrat Uses advised against not described		odes: SU 0-2, PC 21, PROC 15, AC 0
1.3	Details of the supplier of the s Manufactured by:	•	
	MACHEREY-NAGEL GmbH & Co. F Valencienner Str. 11, 52355 Düren, Phone: +49 2421 969 0		E-mail: sds@mn-net.com (msds@mn-net.com)
1.4	Emergency telephone number		
	DE: Gemeinsames Giftinformationsz		ervice or call local Life Saving Service. urt.de>
	You find our current versions of SDS in Interr	et:	<http: sds="" www.mn-net.com=""></http:>

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 H332 H373	Acute Tox. 4 oral Acute Tox. 4 inh. STOT RE 2

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

65 mg Sulfate LR 200 (R1)





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	Signal word	WARNING	
	Hazard identification	Hazard classes/categories	
	H302 H332 H373 H412	Acute Tox. 4 oral Acute Tox. 4 inh. STOT RE 2 Aquatic Chronic 3	
	11 mL Sulfate LR 200 (R2)		
	Signal word	Do not need labelling as hazardous -	
	No hazard class		
L	ist of H phrases: see section 16.2		
2.2 L	abel elements according	regulation (EC) 1272/2008	

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)



Signal word: WARNING

11 mL Sulfate LR 200 (R2) Do not need labelling as hazardous Signal word: -

Label elements of the complete product



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 not applicable PBT:

vPvB: not applicable

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)



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	stance name: No.:	<i>barium chloride</i> 10361-37-2			
Subs Form		H301, Acute Tox. 3 oral, H332, Acu BaCl ₂	ite Tox. 4 inh.		
REA	CH Reg. No.:	Bariumdichlorid, Chlorbarium 01-2119502547-42-xxxx			
	centration:	233-788-1 20 - <30 % the weight percentage of the metal (accordin	Indice No.: Correlation factor: x	056-004-00-8 0.66 (= %Ba)	in 1)
		H302, Acute Tox. 4 oral, H332, Acu		72/EG Annex VI, 1.1.3.2 No	
Subs CAS	stance name: No.:	hexadecyl-trimethylammonium bron 57-09-0	nide		
Subs Form		H302, Acute Tox. 4 oral, H315, Skin C ₁₉ H ₄₂ BrN	n Irrit. 2, H319, Eye Irri	it. 2, H410, Aquatic Chi	ronic 2
EC N Conc		264-151-6 1 - <10 % H412, Aquatic Chronic 3	Indice No.:	612-140-00-5	
	stance name:	ethylendinitrilo tetraacetic acid, di N	la-salt (FDTA-Na)		
	No.:	6381-92-6			
Form	nula: idonym (de):	H332, Acute Tox. 4 inh., H373, res C ₁₀ H ₁₄ N ₂ Na ₂ O ₈ •2 H ₂ O Titriplex® III 205-358-3	o. irrit. STOT SE 3		
	centration: CLP (GHS):	30 - <40 % H373, STOT RE 2			
11 mL Sulfate	e LR 200 (R2) stance name:	water			
	No.:	7732-18-5			
Form REA EC N Conc	nula: CH Reg. No.: No.: centration:	No criteria for classification or naming of che H ₂ O exempt, Annex IV 231-791-2 90 - <100 %	emical not required.		
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. ---



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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. 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.
- 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. 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

Storage class (VCI).	0.1
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.



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SECTI	ON 8: Exposure contro	ols /personal protection	
3.1	Control parameters		
	TRGS 900 (DE):	0.5 _{Ba} e mg/m³ 0,5 _{Ba} E mg/m³ E/e respirable	CAS No.: 10361-37-2
	skin resorptive (H), respirat SUVA(CH) MAK value: NIOSH: [TWA] Time-weighted avera	ory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) n 0,5 e mg/m ³ TWA 0.5 _{Ba} mg/m ³ ge to a reference period of 8 hours, [STEL] Short-term expos TWA 0.5 _{Ba} mg/m ³	
	Chemical: hexadecyl-trim	ethylammonium bromide	CAS No.: 57-09-0
		<i>tetraacetic acid, di Na-salt (EDTA-Na)</i> [inh] 1.5 mg/m³ _{evel (for workers)}	CAS No.: 6381-92-6
	PNEC _{(fresh water}) : PNEC = Predicted No Effect		
	11 mL Sulfate LR 200 (R2) Chemical: water		CAS No.: 7732-18-5
3.2	Exposure controls Good ventilation and extraction systemeters in the		floor drainage and washing facilities. The highest
3.2.1	Respiratory protection No additional recommendation	ns.	
3.2.2			PVC, natural latex, Neopren, or Nitril (f.ex. from Ansel 3 level 1.
3.2.3	Eye / Face Protection Yes, safety glasses according	EN 166 with integrated side shields or wrap-arou	und protection.
3.2.4	Skin protection Not necessary.		
3.2.5	with the skin, eyes and clothin	ing snuff and storage of food in work areas and a ig. Rinse any clothing on which the substance ha er when stopping work and before eating, and the	
3.2.6	Thermal hazards no data available		
3.3	Limitation and monitoring Do not release product into environ	of environmental exposure	
SECTI	ON 9: Physical and ch	emical properties	

9.1 Information on basic physical and chemical properties

65 mg Sulfate LR 200 (R1)	
a) State of aggregation:	solid (lyophilized)
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



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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:	0,07 g/cm³		
q) Relative vapour density (air=1):	no data available		
r) Particle size:	no data available		
11 mL Sulfate LR 200 (R2)			
a) State of aggregation:	liquid		
b) Colour:	colourless		
c) Odor:	odorless		
d) Melting point:	no data available		
e) Boiling point:	no data available		
f) Flammability:	no data available		
g) Explosive limits (lower / upper):	no data available		
h) Flash point:	no data available		
i) Flashing temperature:	no data available		
j) Decomposition temperature:	no data available no data available		
k) pH value:	no data available		
I) Kinematic viscosity:	no data available		
m) Solubility in water: n) Dispersion coefficient (K _{o/w}):	no data available		
o) Vapour pressure (20°C):	no data available		
p) Specific gravity:	1.00 g/cm ³		
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.



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SECT	ION 11: Toxicolo	gical information	
11.1		e hazard classes according regulation (EC) 12 is valid for pure substances. Quantitative data on the toxici	
	LD50 _{orl rat} : LC_Low _{orl hmn} :	barium chloride listed inhalation, ingestion, skin and/or eye contact Eyes, skin, respiratory system, heart, central nervo irritation eyes, skin, upper respiratory system; skin kalemia	burns; gastroenteritis; muscle spasm; slow pulse,
	Chemical: TSCA Inventory: Korea Exist.Chem. LD50 _{orl rat} :	hexadecyl-trimethylammonium bromide listed nventory: KE-34534, Toxic 2000-1-509 410 mg/kg	CAS No.: 57-09-0
	Chemical: TSCA Inventory: LD50 _{orl rat} :	ethylendinitrilo tetraacetic acid, di Na-salt (EDTA-Na) listed (CAS 139-33-3) 2800 mg/kg	CAS No.: 6381-92-6

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

11 mL Sulfate LR 200 (R2)

Chemical: water 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)		
Substance name: barium c	CAS-Nr.: 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	
Substance name: hexadec	/l-trimethylammonium bromide	CAS-Nr.: 57-09-0

Harmful to aquatic life with long lasting effects. Do not release into the environment. Environmentally hazardous substances/mixtures do not have to be labeled with P-phrases up to 125 mL (EU 1272/2008 Annex I Paragraph 1.5.2). Water hazard class (DE): 3 Storage class (VCI): 12-13

Substance name:	ethylendinitrilo tetraacetic acid, di Na-salt (EDTA-	-Na) CAS-Nr.: 6381-92-6
PNEC (fresh water): PNEC = Predicted No Effect	2.2 mg/L cted Concentration = concentration at which no effect on the e	nvironment is expected
LC50 fish/96h	[4d] 41-1592 mg/L	·····



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EC50 daphnia/48h : IC50 scenedesmus quadricauda/72h : EC10 pseudomonas putita/16h : Water hazard class (DE): Storage class (VCI):	140 mg/L [72h] 2.77-1000 mg/L [EC10, 30h] 500 mg/L 2 12-13	
11 mL Sulfate LR 200 (R2) Substance name: <i>water</i>	CAS-Nr.: 7732-1	8-5
Persistence and degradabilit	у	
Bioaccumulative potential Substance name: Dispersion coefficient (K _{o/w}):	ethylendinitrilo tetraacetic acid, di Na&A&(⊠D:TØ38/a)9. -4,3	2-6
Mobility in soil		
This substance/mixture contains no co	mponents considered to be either persistent, bioaccumulative and toxic	(PBT) or very persistent
	IC50 scenedesmus quadricauda/72h : EC10 pseudomonas putita/16h : Water hazard class (DE): Storage class (VCI): 11 mL Sulfate LR 200 (R2) Substance name: water Persistence and degradabilit Bioaccumulative potential Substance name: Dispersion coefficient (K o/w): Mobility in soil Results of PBT and vPvB ass This substance/mixture contains no co	g date: 15.05.2024 Date of issue: 27.07.2022 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 Storage class (VCI): 12-13 11 mL Sulfate LR 200 (R2) CAS-Nr.: 7732-1: Persistence and degradability Ediaccumulative potential Substance name: ethylendinitrilo tetraacetic acid, di Na-GAAS (ED:T6038/b-)9. Dispersion coefficient (K o/w): -4,3

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 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

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 asses	sement	
15.2 Chemical salety asses	Sment	

not necessary for these small amounts

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

in preparation

LISC OF TELEVALLE H PIL	14363
Н	in preparation
H302	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.

16.2.2 List of relevant P phrases

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 atmospheres

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 182/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1907/2006/EG Regulation 643/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (15th ATP) Regulation 849/2021/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 (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 643/2021/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 (17th ATP)

revisions/updates

Reason for revision: 2014-02 Corrected structure of the sections according to Regulation 453/2010/EU, if necessary 2014-04 adjustment according Regulation 487/2013/EU 2016-03 adjustment according Regulation 1221/2015/EU

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

16.5 Further information

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.

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16.6 Legend / Abbreviations

acc: ADR:	according Convention concerning the International Carriage of Dangerous Goods by Road
Act:	acute
BAT:	biological workplace tolerance value
CAO:	Cargo Aircraft Only



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Carc:

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carcinogen

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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)
GHS:	Global Harmonized System of Classification and Labeling of Chemicals
gpg:	guinea pig
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	s: fisch, ide, orfe
MAK:	maximum workplace concentration
Met:	Metall
	mouse
mus:	
Muta:	mutagen
NIOSH:	National Institute for Occupational Safety and Health (US)
NRD:	Non-rapidly degradable
onchorhynchu	us mykiss: fish, rainbow trout
orl:	oral
OSHA:	
OSHA: PAX	Occupational Safety and Health Administration
PAX:	Occupational Safety and Health Administration transport on passenger planes allowed
PAX: PBT:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance
PAX: PBT: pH:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value
PAX: PBT: pH: pimephales p	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow
PAX: PBT: pH: pimephales p PNEC:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration
PAX: PBT: pH: pimephales p	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use'
PAX: PBT: pH: pimephales p PNEC:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration
PAX: PBT: pH: pimephales p PNEC: PROC 15:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use'
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: RE: REACh:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: Reg.No.:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: Reg.No.:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: REF: Reg.No.: Repr:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: Reg.No.: Repr: Resp: RIP:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: Reg.No.: Repr: Resp: RIP: scu:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: REACh: REF: Reg.No.: Repr: Resp: RIP: scu: SDS:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: REACh: REF: Reg.No.: Repr: Resp: RIP: scu: SDS: Sens:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet sensitisation
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: Reg.No.: Repr: Resp: Resp: RIP: scu: SDS: Sens: STEL:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet sensitisation short term exposure limit
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: Reg.No.: Repr: Resp: RIP: scu: SDS: Sens: STEL: STOT:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet sensitisation short term exposure limit Specific Target Organ Toxicity
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: Reg.No.: REF: Reg.No.: Repr: Resp: RIP: scu: SDS: Sens: STEL: STOT: SVHC:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet sensitisation short term exposure limit Specific Target Organ Toxicity Substance of Very High Concern
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: REACh: REF: Reg.No.: Repr: Resp: RIP: scu: SDS: Sens: STEL: SVHC: t/a:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet sensitisation short term exposure limit Specific Target Organ Toxicity Substance of Very High Concern tons per year
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: Reg.No.: Repr: Resp: RIP: scu: SDS: Sens: STEL: STOT: SVHC: t/a: TCCA:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet sensitisation short term exposure limit Specific Target Organ Toxicity Substance of Very High Concern tons per year Toxic Chemicals Control Act (S. Korea)
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: REACh: REF: Reg.No.: Repr: Resp: RIP: scu: SDS: Sens: STEL: SVHC: t/a:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet sensitisation short term exposure limit Specific Target Organ Toxicity Substance of Very High Concern tons per year
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: Reg.No.: Repr: Resp: RIP: scu: SDS: Sens: STEL: STOT: SVHC: t/a: TCCA:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet sensitisation short term exposure limit Specific Target Organ Toxicity Substance of Very High Concern tons per year Toxic Chemicals Control Act (S. Korea)
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: Reg.No.: Repr: Resp: RIP: scu: SDS: Sens: STEL: STOT: SVHC: t/a: TCCA: Tox:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet sensitisation short term exposure limit Specific Target Organ Toxicity Substance of Very High Concern tons per year Toxic Chemicals Control Act (S. Korea) toxic
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: Reg.No.: Repr: Resp: Resp: RIP: scu: SDS: Sens: STEL: STOT: SVHC: t/a: TCCA: TSCA:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet sensitisation short term exposure limit Specific Target Organ Toxicity Substance of Very High Concern tons per year Toxic Chemicals Control Act (S. Korea) toxic The Toxic Substances Control Act (US) time weighted average
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: Reg.No.: Repr: Resp: RIP: scu: SDS: SSens: STEL: STOT: SVHC: t/a: TCCA: TSCA: TWA: TRGS:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet sensitisation short term exposure limit Specific Target Organ Toxicity Substance of Very High Concern tons per year Toxic Chemicals Control Act (S. Korea) toxic The Toxic Substances Control Act (US) time weighted average technical regulations (DE)
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: Reg.No.: Repr: Resp: Resp: RIP: scu: SDS: Sens: STEL: STOT: SVHC: t/a: TCCA: TSCA: TWA:	Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet sensitisation short term exposure limit Specific Target Organ Toxicity Substance of Very High Concern tons per year Toxic Chemicals Control Act (S. Korea) toxic The Toxic Substances Control Act (US) time weighted average



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Safety Data Sheet

according to Regulations REACh 1907/2006/EC

REF: 985062	NANOCOLOR Sulfate LR 200	Page: 11/11
Printing date: 15.05.2024	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.



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