

according to Regulations REACh 1907/2006/EC

REF: 985049	NANOCOLOR Silver 3	Page: 1/10
Printing date: 27.09.2023	Date of issue: 15.06.2022	Version: 2.2.2.4

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

1.1	Product identifier	985049
	Product name	NANOCOLOR Silver 3
		see SECTION 3.1/3.2 or tance(s) does not exist because the annual tonnage does not require registration or
	the substance or its use is exclude	5
	20 x 1.5 mL Silver 3 (R0) 1 x 11 mL Silver 3 (R2) 1 x 11 mL Silver 3 (R3)	UFI: 9T8U-G3CG-T204-Q1CA
1.2	Polovant identified uses of th	e substance or mixture and uses advised against
1.4	Relevant identified uses	e substance of finkture and uses advised against
	Product for analytical use.	
		n according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0
	The exposure scenario is integra	ated into sections 1-16.
	Uses advised against not described	
1.3	Dataila of the cumplice of the	a fatu data a baat
1.5	Details of the supplier of the	Salety data Sheet
	Manufactured by: MACHEREY-NAGEL GmbH & Co.	KC
	Phone: +49 2421 969 0	E-mail: sds@mn-net.com (msds@mn-net.com) VG
		veferant bH + CO KC
1.4	Emergency telephone numbe	Lion Gmbr 3-5
	Outside Germany (DE): Call your r	egional Poisons Information Service or call local Life Saving Service Perferre Germany
	DE: Gemeinsames Giftinformations	szentrum (GGIZ)
	99089 Erfurt tel. +49 361 73	E-mail: sds@mn-net.com (msds@mn-net.com) K egional Poisons Information Service or call local Life Saving Service perlenstr. 3-5 szentrum (GGIZ) 30 730, <https: www.ggiz-erfurt.de=""> schttp://www.mn-net.com/SDS> +49 721 5606 0 sicherheit@calroth.de</https:>
	You find our current versions of SDS in Inte	innet: chttp://www.mp.net.com/CDC> +49 it@carlfour.
		sicherheite
		50

SECTION 2: Hazard identification

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

	GHS08	
Signal word	WARNING	
Hazard identification	Hazard classes/categories	
H373	STOT RE 2	

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

11 mL Silver 3 (R2)





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Signal word	WARNING	
Hazard identification	Hazard classes/categories	
H373	STOT RE 2	
11 mL Silver 3 (R3)		
Signal word	Do not need labelling as hazardous -	
No hazard class		
1.5 mL Silver 3 (R0)		
Signal word	Do not need labelling as hazardous -	
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).

11 mL Silver 3 (R2)



Signal word: WARNING

11 mL Silver 3 (R3) Do not need labelling as hazardous Signal word: -

1.5 mL Silver 3 (R0) 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

Information pertaining to particular risks to human and possible symptoms

Information pertaining to particular risks to the environment

Possible endocrine disrupting effects no data available



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Software: M2 V 6.1.4.2

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SECTION 3: Composition / information on ingredients

3.1 Substances or 3.2 Mixtures

11 mL S	Silver 3 (R3) Substance name: CAS No.: Substance rating: Formula: Pseudonym (de): REACH Reg. No.: EC No.: Concentration: acc. CLP (GHS):	dimethyl sulfoxide 67-68-5 No criteria for classification or naming of chemical not required. C $_2$ H $_6$ OS DMSO 01-2119431362-50-xxxx 200-664-3 80 - <100 % The criteria for classification are not fulfilled.
1.5 mL 3	Silver 3 (R0) Substance name: CAS No.: Substance rating: Concentration: acc. CLP (GHS):	<i>citrate buffer solution</i> - No criteria for classification or naming of chemical not required. 10 - <25 % The criteria for classification are not fulfilled.
11 mL S	Silver 3 (R2) Substance name: CAS No.: Substance rating: Formula: Pseudonym (de): EC No.: Concentration: acc. CLP (GHS):	ethylendinitrilo tetraacetic acid, di Na-salt (EDTA-Na) 6381-92-6 H332, Acute Tox. 4 inh., H373, resp. irrit. STOT SE 3 C ₁₀ H ₁₄ N ₂ Na ₂ O ₈ •2 H ₂ O Titriplex® III 205-358-3 5 - <10 % H373, STOT RE 2

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



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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. 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 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
- 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): 12 Water hazard class (DE): 2

- 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

11 mL Silver 3 (R3)

Chemical: dimethyl sulfoxide DNEL: 394 inh mg/m³ DNEL = Derived No-Effect Level (for workers) PNEC (fresh water): 17 mg/L PNEC = Predicted No Effected Concentration TRGS 900 (DE): 50 ppm / 160 mg/m³ CAS No.: 67-68-5



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Short-term expo skin resorp SUVA(CH) MAK	E/e respirable sure factor: 2 (I), H, Z tive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not s C value: 50 ppm / 160 mg/m ³	securely excluded / (Y) certainly excluded
1.5 mL Silver 3 Chemical: ci	(R0) itrate buffer solution	CAS No.: -
DNEL:	(R2) <i>thylendinitrilo tetraacetic acid, di Na-salt (EDTA-Na)</i> [inh] 1.5 mg/m³ erived No-Effect Level (for workers)	CAS No.: 6381-92-6
PNEC (fresh water PNEC = Pr	r): 2.2 mg/L edicted No Effected Concentration	
	ols extraction system in the room, floor resistant to chemicals with fl nust be maintained at the workplace.	loor drainage and washing facilities. The highest
Respiratory pro No additional rec		
Yes, gloves acco	I Hand protection ording EN 374 (permeation time >30 min - level 2), consist of PV short times chemical resistant latex gloves with code EN 374-3	
Example 2.3 Eye / Face Prot Yes, safety glass	ection ses according EN 166 with integrated side shields or wrap-aroun	d protection.
S.2.4 Skin protection Not necessary.		
with the skin, ey	ne smoking, taking snuff and storage of food in work areas and at o es and clothing. Rinse any clothing on which the substance has l soap and water when stopping work and before eating, and then	been spilled, and soak it in water. Wash hands
5.2.6 Thermal hazard no data available		
3.3 Limitation and r Do not release produ	monitoring of environmental exposure act into environment.	
SECTION 9: Physica	I and chemical properties	

9.1 Information on basic physical and chemical properties

11 mL Silver 3 (R3)	
a) State of aggregation:	liquid
b) Colour:	red
c) Odor:	fusty, mouldy
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:	95 °C
i) Flashing temperature:	no data available
j) Decomposition temperature:	no data available
k) pH value:	6-8
 Kinematic viscosity: 	no data available
m) Solubility in water:	0-100 %
n) Dispersion coefficient (o/w) :	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	1,09 g/cm³
q) Relative vapour density (air=1):	no data available
r) Particle size:	no data available



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1.5 mL Silver 3 (R0)	liquid		
a) State of aggregation:	liquid		
b) Colour: c) Odor:	colourless		
, -	fusty, mouldy no data available		
d) Melting point:	no data available		
e) Boiling point:			
f) Flammability:	no data available		
g) Explosive limits (lower / upper):	no data available		
h) Flash point:	no data available no data available		
i) Flashing temperature:j) Decomposition temperature:	no data available		
k) pH value:	5-6		
I) Kinematic viscosity:	no data available		
m) Solubility in water:			
n) Dispersion coefficient (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		
11 mL Silver 3 (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		
k) pH value:	6-8		
I) Kinematic viscosity:	no data available		
m) Solubility in water:	0-100 %		
n) Dispersion coefficient (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

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



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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.

11 mL Silver 3 (R3)	valid for pure substances. Quantitative data on the	ne toxicity of this product are not available
Chemical: TSCA Inventory: Korea Exist.Chem.Inv LD50 _{orl rat} :	<i>dimethyl sulfoxide</i> listed /entory: KE-32367 14500 mg/kg	CAS No.: 67-68-5
1.5 mL Silver 3 (R0) Chemical: TSCA Inventory: Korea Exist.Chem.Inv	<i>citrate buffer solution</i> all listed ventory: listed	CAS No.: -
11 mL Silver 3 (R2) Chemical: TSCA Inventory: LD50 orl rat :	ethylendinitrilo tetraacetic acid, di Na-salt (EDTA-N listed (CAS 139-33-3) 2800 mg/kg	<i>la)</i> CAS No.: 6381-92-6
Chronic Effects: May	cause damage to organs through prolonged or repe	eated exposure.
Other hazards		
Possible endocrine no data available	disrupting effects	
Other information no additional data ava	ailable	
TION 12: Ecologica	l information	
Toxicity Following information is	valid for pure substances.	
11 mL Silver 3 (R3) Chemical: PNEC (fresh water) : PNEC = Predicted No Effe	<i>dimethyl sulfoxide</i> 17 mg/L ^{cted} Concentration	CAS No.: 67-68-5
LC50 fish/96h : EC50 daphnia/48h : EC10 pseudomonas puti Water hazard class (I Dispersion coefficient Storage class (VCI):	DE): 1 WGK No.: 5050	
1.5 mL Silver 3 (R0) Chemical:	citrate buffer solution	CAS No.: -

 Water hazard class (DE):
 0

 Storage class (VCI):
 12

 11 mL Silver 3 (R2)
 12

 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
 CAS No.: 6381-92-6

 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



11.2

SEC

12.1

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	Dispersion coefficient _(o/w) : Storage class (VCI):	-4,3 12-13	
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 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

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 201, Classification and labeling of activities involving nazardous substances 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.

15.2 Chemical safety assessment

not necessary for these small amounts



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SECT	ION 16: Other	information			
16.1	Changes compared to the last version Between versions 2.2.2.4 and 2.2.2.2 following changes were applied: - 2 substance data corrected				
16.2	List of H and P phrases				
16.2.1	List of relevan H373	t H phrases May cause damage to organs through prolonged or repeated exposure.			
16.2.2	List of relevant P phrases				
16.3	Recommended restriction on use				
	Only for professiona An individual packa	l user. ge 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				
		ues in the air at work 2009, revised on 01/2009 9/EU, adaptation of Regulation 1272/2008/EU to technical and scientific progress (1s			
		D/EU, adaptation of the REACH regulation 1907/2006/EG	MAIF)		
		3/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (4th			
		15/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (7t 7/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (10t			
		B/EU, adaptation of Regulation 1272/2008/EC to technical and scientific progressTex			
		18/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (13 9/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (12t			
		rules of technology on limit values in the air at work, as of 03/2019	,,		
		D/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and so	cientific progress (14th ATP)		
		0/EU, adaptation of Annex II of the REACH regulation 1907/2006/EG 20/EU, adaptation of Annex VI. Part 3. of Regulation 1272/2008/EC to technical and s	scientific progress (15th ATD)		

Regulation 1182/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (15th ATP) Regulation 643/2021/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (16th ATP) Regulation 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP) Regulation 692/2022/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP) Regulation 692/2022/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (18th ATP)

revisions/updates

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

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

16.5 Further information

MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

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16.6 Legend / Abbreviations

- acc: according
- ADR: Convention concerning the International Carriage of Dangerous Goods by Road
- Act: acute
- BAT: biological workplace tolerance value
- CAO: Cargo Aircraft Only
- Carc: carcinogen
- CAS: Chemical Abstracts Service
- CLP: Classification, Labelling and Packaging regulation
- CMR: carcinogen, mutagen, reproduction toxic
- Corr: corrosive
- COD: chemical oxigen demand
- CSCL: Chemical Substance Control Law (Jp)
- Dam: damage



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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	
MAK:	maximum workplace concentration
Met:	Metall
mus:	mouse
Muta:	mutagen
NIOSH:	National Institute for Occupational Safety and Health (US)
NRD:	Non-rapidly degradable
onchorhynchu	
orl:	oral
OSHA:	Occupational Safety and Health Administration
PAX:	transport on passenger planes allowed
PBT:	persistent, bioaccumulating, toxic substance
pH:	pH value
pimephales p	
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
RE:	repeated
REACh:	Registration, Evaluation, Authorisation and Restriction of Chemicals
REF:	item number, reference number
Reg.No.:	rRegistration number
Repr:	harmful to reproduction
Resp:	respiratory
RIP:	REACH Implementations Projects
scu:	sub cutan
SDS:	safety data sheet
Sens:	sensitisation
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)
Tox:	toxic
TSCA:	The Toxic Substances Control Act (US)
TWA:	time weighted average
TRGS:	technical regulations (DE)
vPvB:	very persistent, very bioaccumulating substance

16.7 Training advice

Regular safety training. Multiple safety training of staffs about danger and protection by using hazards in working area. Additionally training and introduction of staffs for using these products.



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