CHEREY-NAGE MA



Safety Data Sheet

according to Regulations REACh 1907/2006/EC

REF: 963911		NANOCOLOR Cloride-elimination-cartridges		Page: 1/10
Printin	g date: 15.05.2024	Date of issue: 2	27.06.2022	Version: 2.2.3.3
SEC]	FION 1: Identification of Product identifier	the substance/mixt	ure and of the company	
	REF	963911		
	Product name	NANOCOLOR Cloride-	elimination-cartridges	
	•	(s): see SECTION 3 he substance(s) does not exist because excluded from registration.	3.1/3.2 or the annual tonnage does not require registration or	
	10 x Cartridges for	Chloride Eliminination (R0)	UFI: G2RU-G3XD-N208-HQ31	
1.2	Relevant identified uses 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		0	
1.3	Details of the supplier of Manufactured by: MACHEREY-NAGEL GmbH Valencienner Str. 11, 52355 Phone: +49 2421 969 0	& Co. KG	E-mail: sds@mn-net.com (msds@r	nn-net.com)
1.4	Emergency telephone nu Outside Germany (DE): Call DE: Gemeinsames Giftinforr	your regional Poisons Information	on Service or call local Life Saving Service	Э.

entrum (GIZ DE: Ge 99089 Erfurt tel. +49 361 730 730, <https://www.ggiz-erfurt.de>

You find our current versions of SDS in Internet:

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

SECTION 2: Hazard identification

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

	GHS05
Signal word	DANGER
Hazard identification	Hazard classes/categories
H318	Eye Dam. 1

2.1 Classification of the substance or mixture according to Regulation (EC) 1272/2008 Cartridges for Chloride Eliminination (R0)

	GHS05
Signal word DANGER	
Hazard identification	Hazard classes/categories
H318	Eye Dam. 1



MACHEREY-NAGEL GmbH & Co. KG DE Tel.: +49 24 21 969-0 info@mn-net.com Valencienner Str. 11 52355 Düren · Germany www.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

MACHEREY-NAGEL



Safety Data Sheet

according to Regulations REACh 1907/2006/EC

REF: 963911	NANOCOLOR Cloride-elimination-cartridges	Page: 2/10
Printing date: 15.05.2024	Date of issue: 27.06.2022	Version: 2.2.3.3

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).

Cartridges for Chloride Eliminination (R0)



GHS05

Signal word: DANGER H318 Causes serious eye damage. P280sh, P305+351+338, P310 Wear protective gloves/eye protection.IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.Immediately call a POISON CENTER/doctor.

Label elements of the complete product



Signal word: DANGER H318 Causes serious eye damage. P280sh, P305+351+338, P310 Wear protective gloves/eye protection.IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.Immediately call a POISON CENTER/doctor.

2.3 Other hazards

Possible hazards from physicochemical properties

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

Information pertaining to particular risks to human and possible symptoms

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

Information pertaining to particular risks to the environment

PBT:	not applicable
vPvB:	not applicable

Possible endocrine disrupting effects no data available

SECTION 3: Composition / information on ingredients

3.1 Substances or 3.2 Mixtures

Cartridges for Chloride Eliminination (R0)



DE Tel.: +49 24 21 969-0 info@mn-net.com CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com



REF: 963911 Printing date: 15.05.2024		NANOCOLOR Cloride-elimination-cartridges	Page: 3/10
		Date of issue: 27.06.2022 Ve	
	Substance name: CAS No.:	calcium sulfate dihydrate 10101-41-4	
	Substance rating: Formula: Pseudonym (de): REACH Reg. No.: EC No.: Concentration: acc. CLP (GHS):	No criteria for classification or naming of chemical not required. CaSO $_4 \cdot 2H_2 O$ Gips 01-2119444918-26-xxxx 231-900-3 25 - <100 % The criteria for classification are not fulfilled.	
	Substance name: CAS No.:	silver sulfate 10294-26-5	
	Substance rating: Formula: Pseudonym (de): REACH Reg. No.: EC No.: Concentration: The classification refers t acc. CLP (GHS):	H318, Eye Dam. 1, H400, Aquatic Acute 1, H410, Aquatic Chronic 2 Ag ₂ SO ₄ Disilber(I)-sulfat 01-2119918297-31-xxxx 233-653-7 10 - <30 % Correlation factor: x 0.69 (= %Ag) o the weight percentage of the metal (according to CLP regulation 2008/1272/EG Annex VI, 1.1.3.2 H318, Eye Dam. 1	Note 1)

3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.List of H and P phrases: see section 16.2.

SECTION 4: First aid measures

4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice. Remove contaminated clothing. Show product package, packing insert and this material safety data sheet to the doctor.

4.1.1 After SKIN Contact

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

4.1.2 After EYE Contact

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

4.1.3 After INHALATION of vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. ---

4.1.4 After ORAL Intake

After oral intake lots of water should be drunk after it has been ingested.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

5.1.1 Suitable extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

5.1.2 Unsuitable extinguishing media no data available



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



according to Regulations REACh 1907/2006/EC

REF: 963911	NANOCOLOR Cloride-elimination-cartridges	Page: 4/10
Printing date: 15.05.2024	Date of issue: 27.06.2022	Version: 2.2.3.3

- **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 no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Do not breathe vapours. Wear eye protection, respectively face protection. Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed.

6.2 Environmental precautions

- PBT: not applicable
 - vPvB: not applicable
- 6.3 Methods and material for containment and cleaning up

Bind any escaping liquid with inert absorbent. And dispose in accordance to local regulations for the disposal of hazardous chemicals. Clean any contaminated equipment and floors with plenty of water. Collect small amounts of leaked liquid and flush with water into drains.

6.4 Reference to other sections

no data available

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product.

- 7.2
 Conditions for safe storage, including any incompatibilities

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

 Storage class (VCI):
 12

 Water hazard class (DE):
 3
- 7.2.1 Requirements for stock rooms and containers Keep original product packages tightly closed during handling and storage. Use inbreakable container for transport of glass bottles.
- 7.3 Specific end use(s)

Product for analytical use.

SECTION 8: Exposure controls /personal protection

8.1 Control parameters

Cartridges for Chloride Eli Chemical: calcium sulfa DNEL: DNEL = Derived No-Effec	te dihydrate `	CAS No.: 10101-41-4
PNEC (fresh water) : PNEC = Predicted No Effe	not acute mg/L ected Concentration	
TRGS 900 (DE):	6A mg/m³ E/e respirable	
NIOSH: [TWA] Time-weighted ave	TWA 10 (total) / 5 (resp) mg/m³ rage to a reference period of 8 hours, [STEL] Short-term exposure limit re	lated to a 15-minute period
OSHA:	TWA 15 (total) / 5 (resp) mg/m³	
Chemical: <i>silver sulfate</i> DNEL: DNEL = Derived No-Effec	no data t Level (for workers)	CAS No.: 10294-26-5
PNEC (fresh water) : PNEC = Predicted No Effe	0.04 μg/L ected Concentration	
EU value: TRGS 900 (DE):	[Ag] 0.01e mg/m³ [Ag] 0,01 E mg/m³ E/e respirable	





REF: 963911 Printing date: 15.05.2024		NANOCOLOR Cloride-elimination-cartridges	Page: 5/10	
		Date of issue: 27.06.2022	Version: 2.2.3.3	
	Short-term exposure	factor: 2 (I)		
	NIOSH:	I), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) ce [TWA] 0.01 mg/m ³ hted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minu		
	OSHA:	[TWA] 0.01 mg/m ³		
8.2	Exposure controls			
	Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highes 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 Anse 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 or face protection.		protection.	
8.2.4	Skin protection Recommended to avoid contamination with these hazards.			
8.2.5	Personal hygiene Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid cont with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash har thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.		ak it in water. Wash hands	
8.2.6	Thermal hazards no data available			
8.3	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

Cartridges for Chloride Eliminination (R0)	solid
a) State of aggregation:	colourless
b) Colour:	odorless
c) Odor:	no data available
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
l) Kinematic viscosity:	no data available
m) Solubility in water:	no data available
l) Kinematic viscosity:	no data available
m) Solubility in water:	no data available
n) Dispersion coefficient (K _{o/w}):	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	no data available
q) Relative vapour density _(air=1) :	no data available
r) Particle size:	no data available

9.2 Other information

9.2.1 Information on physical hazard classes

no data available

9.2.2 Other safety-related parameters

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required.



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



REF: 963911 Printing date: 15.05.2024		NANOCOLOR Cloride-elimination-cartridges	Page: 6/10
		Date of issue: 27.06.2022	Version: 2.2.3.3
SECI	FION 10: Stability and read	tivity	
10.1	Reactivity no further data available.		
10.2	Chemical stability no known instability.		
10.3	Possibility of hazardous rea No further data available.	ctions	
10.4	Conditions to avoid Observe the storage temperature printed on it. No more required.		
10.5	Incompatible materials no additional data available		
10.6	Hazardous decomposition products In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.		
SECI	FION 11: Toxicological info	ormation	
11.1		asses according regulation (EC) 1272/2008 ure substances. Quantitative data on the toxicity of this product are	not available.
	Contriduce for Oblavida Elimini		

Cartridges for Chloride Eliminination (R0)					
Chemical:	calcium sulfate dihydrate	CAS No.: 10101-41-4			
TSCA Inventory:	listed (CAS 7778-18-9)				
Exposure Routes:	inhalation, skin and/or eye cor	tact			
Target Organs:	Eyes, skin, respiratory system				
Symptoms:	irritation eyes, skin, mucous m	embrane, upper respiratory system; cough, sneezing, rhinorrhea			
(discharge of thin nas	(discharge of thin nasal mucus)				
LD50 orl rat :	> 10000 mg/kg				
LC50 ihl rat :	> 2,61 mg/Ĺ				
	-				

Chemical: silver sulfate CAS No.: 10294-26-5 **TSCA** Inventory: listed Exposure Routes: inhalation, ingestion, skin and/or eye contact Target Organs: Nasal septum, skin, eyes Blue-gray eyes, nasal septum, throat, skin; irritation, ulceration skin; gastrointestinal disturbance Symptoms: Japan CSCL/PRTR: PRTR: ≥1,0%Ag class I, Japan PDSCL: Deleterious substance listed ≥1,0%/≥0,1% Japan ISHL: Korea Exist.Chem.Inventory: KE-12273, >25% Toxic 97-1-92 LD50 orl rat : 2000-5110 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.

 Cartridges for Chloride Eliminination (R0)
 CAS-Nr.: 10101-41-4

 Substance name:
 calcium sulfate dihydrate
 CAS-Nr.: 10101-41-4

 PNEC (fresh water):
 not acute mg/L

 PNEC = Predicted No Effected Concentration = concentration at which no effect on the environment is expected

 Water hazard class (DE):
 1

 Storage class (VCI):
 12-13



 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



according to Regulations REACh 1907/2006/EC

REF: 963911	NANOCOLOR Cloride-elimination-cartridges	Page: 7/10
Printing date: 15.05.2024	Date of issue: 27.06.2022	Version: 2.2.3.3
Substance name: silver sulfa		10294-26-5
PNEC (fresh water) : PNEC = Predicted No Effected Concenti	0.04 μ g/L ration = concentration at which no effect on the environment is expected	
LC50 _{daphnia} magna/48h :	0.22 μg/L	
LC50 fish/96h: EC10 pseudomonas putita/16h:	[4d] 1.2 μg/L [24h] 0.41-0.54 μg/L	
Water hazard class (DE):	3	
Storage class (VCI):	12	

12.2 Persistence and degradability

12.3 Bioaccumulative potential

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

no data available

12.7 Other adverse effects

no additional data available

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

SECTION 14: Transport information

14.4. Packing group: Road transport ADR	II			
Classification code:	M11 Tunnel	restriction code: E		
Limited Quantity:		e LQ in Alternative declaration	on for transportation	
Air transport IATA DGR			·	
Limited Quantity:	PAX:	960	max. quantity PAX:	10 KG
-	CAO:	960	max. quantity CAO:	10 KG
Maritime transport IMDG				
EmS:	F-A, S-P	Staukategorie:	A	
UN No.: (see below) class 8 or 14.1 UN number: 3260 14.2 UN proper shipping n 14.3 Class: 8	II, Excepted Quantities	s (≤30 mL/∑≤500 mL) = ADR/ acidic, inorganic, n.o.s. (silv		
or 14.1 UN number: 3260 14.2 UN proper shipping n	II, Excepted Quantities ame: Corrosive solid, II code: C2 tity: 1 Kg	、 <u> </u>	ver sulfate mixture)	





REF: 963911 Printing date: 15.05.2024		NAN	NANOCOLOR Cloride-elimination-cartridges		Page: 8/10
		Date of issue: 27.06.2022		Version: 2.2.3.	
		5.0			
	Excepted Quantity:	E 2			
	<i>Maritime transport IMDG</i> EmS: Special instructions:	F-A, S-B 274	Staukategorie:	В	
4.5	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.				
SECT	ION 15: Regulatory info	rmation			
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 200, 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: Ja 2012 TRGS 500, Protective measures, Mai 2008 TRGS 510, Storage of hazardous substances in portable containers from March 2013, status: Oct 2015 Chemter 4. Measures when storing bazardous substances up to 50 kg (small quantity regulation) 		, Stand: Mrz 2017		

Chapter 4, Measures when storing hazardous substances up to 50 kg (small quantity regulation)

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

SECTION 16: Other information

16.1 Changes compared to the last version

Between versions 2.2.3.3 and 2.2.2.2 following changes were applied: - 1 composition data corrected - 1 substance data corrected

16.2 List of H and P phrases

16.2.1 List of relevant H phrases н Between versions 2.2.3.3 and 2.2.2.2 following changes were applied: - 1 composition data corrected - 1 substance data corrected H318 Causes serious eye damage.

16.2.2 List of relevant P phrases P280sh Wear protective gloves/eye protection. P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. P310

16.3 **Recommended restriction on use**

Only for professional user.

Look about employee restrictions for young people (f. ex. 94/33/EC or DE § 22 JArbSchG)! Look about employee restrictions for pregnant women and nursing women (f.ex. 92/85/EEC or for DE §§ 11-13 MuSchG 2017)! An individual package of this product or test kit has a moderate hazardous potential.

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)



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



according to Regulations REACh 1907/2006/EC

REF: 963911	NANOCOLOR Cloride-elimination-cartridges	Page: 9/10
Printing date: 15.05.2024	Date of issue: 27.06.2022	Version: 2.2.3.3

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 VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (15th ATP) Regulation 643/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (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 (16th 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 3, 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.

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
Convention concerning the International Carriage of Dangerous Goods by Road
acute
biological workplace tolerance value
Cargo Aircraft Only
carcinogen
Chemical Abstracts Service
Classification, Labelling and Packaging regulation
carcinogen, mutagen, reproduction toxic
corrosive
chemical oxigen demand
Chemical Substance Control Law (Jp)
damage
Derived No-Effect Level (for workers)
dermal
dog
Concentration causing a toxic effect in 10% of the test organisms
European Community
Substance number of the EC substance inventory
Guide to accident management measures on ships
European Union
fish (not spezified)
Global Harmonized System of Classification and Labeling of Chemicals
guinea pig
International Civil Aviation Organization
inhaled
International Maritime Dangerous Goods Code
intravenous
intraperitonaeal
Industrial Safety and Health Law (Jp)
letale concentration 50%
letale dosis 50%
fisch, ide, orfe
maximum workplace concentration
Metall
mouse



 MACHEREY-NAGEL GmbH & Co. KG
 DE
 Tel.: +49 24 21 969-0
 info@mn-net.com

 Valencienner Str. 11
 CH
 Tel.: +41 62 388 55 00
 sales-ch@mn-net.com

 52355 Düren · Germany
 FR
 Tel.: +33 388 68 22 68
 sales-fr@mn-net.com

 www.mn-net.com
 US
 Tel.: +1 888 321 62 24
 sales-us@mn-net.com



according to Regulations REACh 1907/2006/EC

 REF: 963911
 NANOCOLOR Cloride-elimination-cartridges
 Page: 10/10

 Printing date: 15.05.2024
 Date of issue: 27.06.2022
 Version: 2.2.3.3

NIOCU.	National Institute for Occupational Cafety and Lealth (LC)			
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 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			
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.



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