MACHEREY-NAGEL



according to Regulations REACh 1907/2006/EC

REF: 985040	NANOCOLOR Fluoride 2	Page: 1/10
Printing date: 27.09.2023	Date of issue: 29.09.2022	Version: 2.2.3.2

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

1.1	Product identifier		
	REF	985040	
	Product name	NANOCOLOR Fluoride	e 2
	REACH Registration number	(s): see SECTION	3.1/3.2 or e the annual tonnage does not require registration or
	the substance or its use is		e the annual tormage does not require registration of
	20 x 5 mL Fluoride		UFI: TENU-T3J3-420X-0411
	20 x 5 mL Fluoride	2 (R0)	OFI. 1ENO-1535-420X-0411
1.2	Relevant identified uses	of the substance or mix	ture and uses advised against
	Relevant identified uses		tare and asco advised against
	Product for analytical use.		
		ication according REACh RIP	3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0
		ntegrated into sections 1-16.	
	Uses advised against	g	
	not described		
1.3	Details of the supplier of	the safety data sheet	
	Manufactured by:		
	MACHEREY-NAGEL GmbH		
	Valencienner Str. 11, 52355	Düren, Germany	
	Phone: +49 2421 969 0		E-mail: sds@mn-net.com (msds@mn-net.com)
			ion Service or call local Life Saving Service mbH + Co KG iz-erfurt.de> Carl Roth Schoemperlenstr. 3-5 Schoemperlenstr. 6-606 0 Schoemperlenstr. 2-5 Schoemperlenstr. 3-5 Schoemperlenstr. 3-5 S
1.4	Emergency telephone nu	mber	Grant Supr Coko
	Outside Germany (DE): Call	your regional Poisons Informat	ion Service or call local Life Saving Service mbH 7, 3-5
	DE: Gemeinsames Giftinform	ationszentrum (GGIZ)	port Roth orlensti. many
	99089 Erfurt tel. +49	361 730 730, <https: th="" www.gg<=""><th>iz-erfurt.de></th></https:>	iz-erfurt.de>
	You find our ourrent versions of SDS	in Internet	Solit Karlsrullo, con6 0
	You lind our current versions of SDS	in internet:	<http: sds="" www.mn-net.com=""> (*** 721 5000 troth.de</http:>
			schoemperlenstr. 3-00 schoemperlenstr. 3-00
			<http: 0<br="" 5606="" kariston="" sds5="" www.mn-net.com="">+49 721 5606 0 sicherheit@carlroth.de</http:>
			510

SECTION 2: Hazard identification

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

	GHS02 GHS07
Signal word	DANGER
Hazard identification	Hazard classes/categories
11005	
H225	Flam. Liq. 2
H225 H319	Eye Irrit. 2

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

5 mL Fluoride 2 (R0)





Valencienner Str. 11 52355 Düren · Germany www.mn-net.com

MACHEREY-NAGEL GmbH & Co. KG 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



Safety Data Sheet

according to Regulations REACh 1907/2006/EC

REF: 985040	NANOCOLOR Fluoride 2	Page: 2/10	
Printing date: 27.09.2023	Date of issue: 29.09.2022	Version: 2.2.3.2	
Signal word	DANGER		
Hazard identification	Hazard classes/categories		
EUH066	Skin Irrit. 2		
H225	Flam. Lig. 2		

List of H phrases: see section 16.2

H319

H336

2.2 Label elements according regulation (EC) 1272/2008

According **CLP directive** inner packages must be only labelled with GHS symbol(s) and product identificator(s) (EU 1272/2008 Annex I - 1.5.1.2). Inner packages up to 10 mL need max. 2 symbols (Annex I - 1.5.2.4.1 / 2). Harmful chemicals/mixtures with signal word: **WARNING** and highly flammable chemicals/mixtures must not be labelled with H and P phrases **until 125 mL** (EU 1272/2008 Annex I - 1.5.2).

5 mL Fluoride 2 (R0)



Eye Irrit. 2

resp. irrit. STOT SE 3

Signal word: DANGER

Label elements of the complete product



Signal word: DANGER

2.3 Other hazards

Possible hazards from physicochemical properties In the case of pH values are less than 5 or higher than 9 then it is irritant. Flammable 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

acc. CLP (GHS):

SECTION 3: Composition / information on ingredients

3.1 Substances or 3.2 Mixtures

5 ml

. Fluoride 2 (R0) Substance name: CAS No.:	acetate buffer solution
Substance rating: Formula: Concentration:	No criteria for classification or naming of chemical not required. CH $_3$ COOH/K/Na•H $_2$ O 1 - <5 $\%$

The criteria for classification are not fulfilled



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



REF: 985040		NANOCOLOR F	luoride 2		Page: 3/10
Printing date: 27.09.2023		Date of issue: 2	Date of issue: 29.09.2022		Version: 2.2.3.2
	Substance name:	acetone			
	CAS No.:	67-64-1			
	Substance rating:	H225, Flam. Liq. 2, H319, Eye	e Irrit. 2, H336, resp. irrit	t. STOT SE 3, EUH066, 3	Skin Irrit. 2
	Formula:	C ₃ H ₆ O; (CH ₃) ₂ -CO			
Pseudonym (de): REACH Reg. No.:		2-Propanon			
		01-2119471330-49-xxxx			
	EC No.:	200-662-2	Indice No.:	606-001-00-8	
	Concentration:	40 - <60 %			
acc. CLP (GHS):		H225, Flam. Liq. 2, H319, Eye	e Irrit. 2. H336. resp. irri	t. STOT SE 3. EUH066. 3	Skin Irrit. 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

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).

413 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

4.3 Indication of any immediate medical attention and special treatment needed No additionally recommendations. ---

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media 511

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

DANGER: Highly flammable (GHS regulation). Forms explosive vapour-air mixtures. 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



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

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





Safety Data Sheet

according to Regulations REACh 1907/2006/EC

REF: 985040	NANOCOLOR Fluoride 2	Page: 4/10
Printing date: 27.09.2023	Date of issue: 29.09.2022	Version: 2.2.3.2

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):
 3

 Water hazard class (DE):
 1
- 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

5 mL Fluoride 2 Chemical: ad	2 (R0) cetate buffer	solution	CAS No.: -
DNEL:	<i>cetone</i> erived No-Effect	[inh] (1210) mg/m³ Level (for workers)	CAS No.: 67-64-1
PNEC (fresh water PNEC = Pr	-) : edicted No Effe	10.6 mg/L cted Concentration	
EU value: TRGS 900 (DE):	:	500 ppm / 1200 mg/m³ 500 mL/m³ / 1200 mg/m³ E/e respirable	
Short-term expos skin resorpt		2 (I), Y tory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely 6	excluded / (Y) certainly excluded
SUVA(CH) MAK SUVA(CH) BAT TRGS 903 (DE):	value:	500 ppm/ 1200 mg/m ³ [U/b] 80 mg/L [U/b] 80 mg/L B blood, U urine, a no limitation, b end of exposition or shift	
NIOSH: [TWA] Time	e-weighted aver	[TWA] 250 ppm / [STEL] 590 mg/m ³ age to a reference period of 8 hours, [STEL] Short-term exposure limit rela	ted to a 15-minute period
OSHA:	-	[TWA] 1000 ppm / [STEL] 2400 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 highest level of cleanliness must be maintained at the workplace.

8.2.1 Respiratory protection

No additional recommendations.

8.2.2 Skin protection / Hand protection

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



- 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



REF: 98	85040	NANOCOLOR Fluoride 2	Page: 5/10	
Printing	y date: 27.09.2023	Date of issue: 29.09.2022	Version: 2.2.3.2	
8.2.3	Eye / Face Protection Yes, safety glasses according EN 16	6 with integrated side shields or wrap-around protection		
8.2.4	Skin protection Not necessary.			
8.2.5	Personal hygiene Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.			
8.2.6	Thermal hazards no data available			
8.3	Limitation and monitoring of environmental exposure Do not release product into environment.			
SECT	ION 9: Physical and chemic	al properties		
9.1	Information on basic physical and chemical properties			
	5 mL Fluoride 2 (R0) a) State of aggregation:	liquid		
	b) Colour:	rose		
	c) Odor:	like acetone		
	d) Melting point:	no data available		
	e) Boiling point:	no data available		
	f) Flammability: g) Explosive limits (lower / upper):	no data available no data available		
	h) Flash point:	< 23 °C		
	i) Flashing temperature:	no data available		
	j) Decomposition temperature:	no data available		
	κ̃) pH value:	5-6		
	 Kinematic viscosity: 	no data available		
		0 400 0/		

0-100 % no data available

0,9 g/cm³

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

no data available

no data available

no data available

SECTION 10: Stability and reactivity

m) Solubility in water:

p) Specific gravity:

r) Particle size:

Other information

n) Dispersion coefficient (o/w): o) Vapour pressure (20°C):

q) Relative vapour density (air=1):

Properties relevant to substance groups

Substances are highly volatile and form flammable gas-air mixtures.

10.2 **Chemical stability** no known instability. 10.3 Possibility of hazardous reactions No further data available.

no further data available.

Reactivity

- 10.4 Conditions to avoid Observe the storage temperature printed on it.
- 10.5 Incompatible materials no additional data available



9.2

10.1

- 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



REF: 985040	NANOCOLOR Fluoride 2	Page: 6/10
Printing date: 27.09.2023	Date of issue: 29.09.2022	Version: 2.2.3.2

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.

5 mL Fluoride 2 (R0)

Chemical: acetate buffer solution **TSCA** Inventory: all listed Korea Exist.Chem.Inventory: listed

CAS No.: -

Chemical:	acetone	CAS No.: 67-64-1
TSCA Inventory:	listed	California Proposition 65 List: not listed
ACGIH:	750 pp	m
Exposure Routes:	inhalat	ion, ingestion, skin and/or eye contact
Target Organs:	Eyes, s	skin, respiratory system, central nervous system
Symptoms:	irritatio	n eyes, nose, throat; headache, dizziness, central nervous system depression; dermatitis
Australia NICNAS:	not list	ed Canada CEPA 1999: DSL yes
Japan CSCL/PRTR:		Yes, Japan PDSCL: not listed
Japan ISHL:	listed ≥	:1,0%/≥0,1%, Article 57-1+2 (Labelling&SDS required)
South Korea TCCA:	not list	ed
Korea Exist.Chem.Inv	entory: KE-29	367
LD50 orl rat :	5800 n	ng/kg
LC50 ihl rat :	50,1 m	g/L/8H

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.

5 mL Fluoride 2 (R0)

Chemical: Storage class (VCI):	acetate buffer	solution 12
Chemical:	acetone	10.6 mg/l

10.6 mg/L PNEC = Predicted No Effected Concentration LC50 daphnia magna/48h : [48h] 8.8 g/L LC50 fish/96h : [4d] 5540 mg/L EC50 daphnia/48h : 2212 mg/L IC50 scenedesmus quadricauda/72h IC5: 7500 mg/L EC10 pseudomonas putita/16h [30 min] 61,15 g/L Water hazard class (DE): WGK No.: 0006 1 Dispersion coefficient (o/w): -0,24 Storage class (VCI): 3

12.2 Persistence and degradability

not necessary

12.3 **Bioaccumulative potential**

not necessary



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

CAS No .: -

CAS No.: 67-64-1



Safety Data Sheet

according to Regulations REACh 1907/2006/EC

REF: 985040 Printing date: 27.09.2023			NANOCOLOR Fluoride 2		Page: 7/10
		Date of issue: 29.09.2022			Version: 2.2.3.2
12.4	Mobility in soil not necessary				
12.5	Results of PBT ar	nd vPvB assessm	ent		
	This substance/mixture and very bioaccumulati		ts considered to be either pers .1% or higher	sistent, bioaccumulative and t	oxic (PBT) or very persistent
12.6	Endocrine disrup	ting properties			
12.7	Other adverse eff no additional data avail				
SEC	TION 13: Disposa	I consideratior	าร		
F	•	tions for collection and	disposal of hazardous waste a	nd contact waste disposal co	mpany, where you will obtair
13.1 SEC ⁻	Waste treatment i Not necessary, see abo	ve.			
1	14.1. UN number: 3316 14.2. UN proper shipping 14.3. Class: 9	name: Chemical Kit			
1	14.3. Class. 9 14.4. Packing group: Road transport ADR	II			
	Classification code: Limited Quantity:		l restriction code: E see LQ in Alternative declaration	on for transportation	
	Air transport IATA DGR Limited Quantity:	PAX: CAO:	960 960	max. quantity PAX: max. quantity CAO:	10 KG 10 KG
1	Maritime transport IMDG EmS:	F-A, S-P	Staukategorie:	A	
1 1 1	Or use Alternative declarat 14.1 UN number: 1993 14.2 UN proper shipping r 14.3 Class: 3 14.4 Packing group:		: id, n.o.s. (acetone mixture)		
	Road transport ADR				
	Classification code: Limited Quantity:	F1 1 L	Tunnel restriction cod	e: E	

Limited Quantity: 1 L Tunnel restriction code:	F
Excepted Quantity: E 2 Special instructions: 6	40C
Air transport IATA DGR Limited Quantity: PAX: 353 max. quantity PAX: 5	ı.
CAO: 364 max. quantity CAO: 6	
Excepted Quantity: E 2 Maritime transport IMDG	
EmS: F-E, S-E Staukategorie: B	

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.



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

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



REF: 985040	NANOCOLOR Fluoride 2	Page: 8/10
Printing date: 27.09.2023	Date of issue: 29.09.2022	Version: 2.2.3.2

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

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 2.2.3.2 and 2.2.2.2 following changes were applied: - 1 composition data corrected

16.2 List of H and P phrases

16.2.1	List of relevant H phrases

		4000
	H225	Highly flammable liquid and vapour.
	H319	Causes serious eye irritation.
	H336	May cause drowsiness or dizziness.
	EUH066	Repeated exposure may cause skin dryness or cracking.

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 878/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (15th ATP) 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 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) 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



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



REF: 985040	NANOCOLOR Fluoride 2	Page: 9/10
Printing date: 27.09.2023	Date of issue: 29.09.2022	Version: 2.2.3.2

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

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

Legena / F	Addreviations
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:	0
	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
	guinea pig
gpg: ICAO:	International Civil Aviation Organization
ihl:	inhaled
IMDG:	International Maritime Dangerous Goods Code
intrav:	intravenous
ipt:	intraperitonaeal
ISHL:	Industrial Safety and Health Law (Jp)
LC50:	letale concentration 50%
LD50:	letale dosis 50%
leuciscus idus	s: fisch, ide, orfe
MAK:	maximum workplace concentration
Met:	Metall
mus:	mouse
Muta:	mutagen
NIOSH:	National Institute for Occupational Safety and Health (US)
NRD:	Non-rapidly degradable
	us mykiss: fish, rainbow trout
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
5	0



 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

MACHEREY-NAGEL



according to Regulations REACh 1907/2006/EC

REF: 985040	NANOCOLOR Fluoride 2	Page: 10/10
Printing date: 27.09.2023	Date of issue: 29.09.2022	Version: 2.2.3.2

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)
VDVB.	vory porsistant vory bioaccumulating sub

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.



- CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com
- FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com