# MACHEREY-NAGEI



## Safety Data Sheet

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

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

1.1 Product ident	tifier
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REF Product name 985040 NANOCOLOR Fluoride 2

REACH Registration number(s): see SECTION 3.1/3.2 or A registration number for the substance(s) does not exist because the annual tonnage does not require registration or the substance or its use is excluded from registration.

20 x 5 mL Fluoride 2 (R0)

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Product for analytical use. Exposure Scenario Classification according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 The exposure scenario is integrated into sections 1-16. Uses advised against not described

#### 1.3 Details of the supplier of the safety data sheet

### Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG Neumann-Neander-Str. 6-8, 52355 Dueren, GERMANY Tel.: +49 2421 969 0

E-mail: sds@mn-net.com (msds@mn-net.com)

#### 1.4 Emergency telephone number

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service. DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730

You find our current versions of SDS (22 languages) in Internet:

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

### SECTION 2: Hazard identification

#### 2.1 Classification of the substance or mixture

5 mL Fluoride 2 (R0)

	GHS02 GHS07
Signal word	DANGER
Hazard identification	Hazard classes/categories
EUH066 H225 H319 H336	Skin Irrit. 2 Flam. Liq. 2 Eye Irrit. 2 STOT SE 3

#### 2.2 Label elements

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)



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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

Other hazards

### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances or 3.2 Mixtures

5 mL Fluoride 2 (R0)			
Chemical: acetor Classification:	ne H225, Flam. Liq. 2, H319, Eye	Irrit. 2, H336, STOT SE	CAS No.: 67-64-1 3, EUH066, Skin Irrit. 2
Formula:	C <sub>3</sub> H <sub>6</sub> O; (CH <sub>3</sub> ) <sub>2</sub> -CO		
Pseudonym: TSCA Inventory:	2-propanone listed		
REACH Reg. No.:	01-2119471330-49-xxxx		
EC No.:	200-662-2	Indice No.:	606-001-00-8
RTECS:	AL3150000	MFCD:	00008765
KE No.: Concentration:	KE-29367 40 - <60 %		
acc. CLP (GHS):	H225, Flam. Liq. 2, H319, Eye	Irrit 2 H336 STOT SE	3 FUH066 Skin Irrit 2
	1220, 1 ann 219, 2, 11010, 290		
	ine-3-methylamine-N,N-diacetic	acid (Dihydrate)	CAS No.: -
Classification:	No criteria for classification or naming	of chemical not required.	
Formula: TSCA Inventory:	C <sub>19</sub> H <sub>15</sub> NO <sub>8</sub> *2H <sub>2</sub> O LVE		
EC No.:	223-544-2		
Concentration:	< 1.00 %		
acc. CLP (GHS):	The criteria for classification are not fu	ılfilled.	
Chemical aceta	te buffer solution		CAS No.: -
Classification:		and the second second second second	CAS NO
Formula:	No criteria for classification or naming CH <sub>3</sub> COOH/K/Na•H <sub>2</sub> O	of chemical not required.	
TSCA Inventory:	all listed		
KE No.:	listed		
Concentration:	1 - <5 %		
acc. CLP (GHS):	The criteria for classification are not fu	ılfilled.	

#### 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 16.1

### **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.



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4.1.1	After SKIN Contact Remove contaminated clo soap.	hing. Rinse the affected skin or mucous membrane thoroughly under run	nning water. (If possible) use
1.1.2	After EYE Contact After contact with the eyes running water (protect inta	rinse thoroughly under running water with the eyelid wide open with eye ct eye).	washing bottle, eye douche or
1.1.3	After INHALATION of va After inhalation of foam or	ours vapour fresh air should be inhaled. Keep airways free	
1.1.4	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		
1.3	 Indication of any immediate medical attention and special treatment needed No additionally recommendations		
SECT	FION 5: Firefighting m	easures	
5.1		o the fire classification, and, if applicable, a fire blanket must be available FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be u	
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	ackage 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 The original product package of MACHEREY-NAGEL allows a safe storage. Storage class (VCI): Water hazard class (DE):
- 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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SEC	TION 8: Exposure cont	rols/personal protection	
8.1	Control parameters		
	5 ml. Eluoride 2 (R0)		

Chemical: acetone DNEL: DNEL = Derived No-Effect	[inh] (1210) mg/m³ : Level (for workers)	CAS No.: 67-64-1
PNEC(fresh water) : PNEC = Predicted No Effe	10.6 mg/L acted Concentration	
EU value: TRGS 900 (DE):	500 ppm / 1200 mg/m³ 500 mL/m³ / 1200 mg/m³ E/e respirable	
Short-term exposure factor: skin resorptive (H), respin	2 (I), Y ratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not secure	ely excluded / (Y) certainly excluded
SUVA(CH) MAK value: SUVA(CH) BAT value: TRGS 903 (DE):	500 ppm/ 1200 mg/m <sup>3</sup> [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-weighted ave	[TWA] 250 ppm / [STEL] 590 mg/m <sup>3</sup> rage to a reference period of 8 hours, [STEL] Short-term exposure limit r	related to a 15-minute period
OSHA:	[TWA] 1000 ppm / [STEL] 2400 mg/m <sup>3</sup>	
Chemical: Alizarine-3-me	ethylamine-N,N-diacetic acid (Dihydrate)	CAS No.: -
Chemical: acetate buffer	solution	CAS No.: -

#### 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 Hand protection

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

#### 8.2.3 Eye protection

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

8.2.4 Skin protection

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Not necessary.
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#### 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.

### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

5 mL Fluoride 2 (R0) Appearance: liquid pH:	Colour: rose 5-6 < 23 °C	Odor: like acetone
Flash point: Specific gravity: Solubility in water:	0,9 g/cm <sup>3</sup> 0-100 %	

#### 9.2 Other information

Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required. **Relevant Properties of Substance Group** 

Substances are very volantile and form flammable vapour-air mixtures. ---



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SECTION 10: Stability and reactivity			
10.1	<b>Reactivity</b> 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 labeled storage temperature. ---

### 10.5 Incompatible materials

Avoid contact with strong acids or alkalines.

#### 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 toxicological effects

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

### 5 mL Fluoride 2 (R0)

	-,		
Chemical:	acetone		CAS No.: 67-64-1
TSCA Inventory:	listed	California Proposition 65 Lis	st: not listed
ACGIH:	750 ppm		
Exposure Routes:	inhalation,	ingestion, skin and/or eye contact	
Target Organs:	<b>,</b> , ,	respiratory system, central nervous system	
Symptoms:	irritation ey	es, nose, throat; headache, dizziness,	central nervous system depression; dermatitis
Australia NICNAS:	not listed	Canada CEPA 1999	: DSL yes
Japan CSCL/PRTR:		Japan PDSCL: not listed	
Japan ISHL:	listed ≥1,0	%/≥0,1%, Article 57-1+2 (Labelling&SD	S required)
South Korea TCCA:	not listed		
Korea Exist.Chem.In			
LD50 <sub>orl rat</sub> :	5800 mg/k		
LC50 <sub>ihl rat</sub> :	[8h] 50.1 g		
LD50 <sub>drm rbt</sub> :	7.426-15.8	g/kg	
	A# 1 0 4 1		040 N
Chemical:		mine-N,N-diacetic acid (Dihydrate)	CAS No.: -
TSCA Inventory:	LVE		
Chemical:	acetate buffer solu	tion	CAS No.: -
	aceiale buller solu	1011	

TSCA Inventory: all listed Korea Exist.Chem.Inventory: listed

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

### Following information is valid for pure substances.

5 mL Fluoride 2 (R0) Chemical: acetone PNEC(fresh water) : PNEC = Predicted No Effected Concentration	10.6 mg/L	CAS No.: 67-64-1
LC50daphnia magna/48h : LC50fish/96h : EC50daphnia/48h : IC50scenedesmus quadricauda/72h : EC10pseudomonas putita/16h : Water hazard class (DE): Dispersion coefficient(octanol-water) :	[48h] 8.8 g/L [4d] 5540 mg/L 2212 mg/L IC5: 7500 mg/L [30 min] 61,15 g/L 1 WGK No.: 0006 -0.24	



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	Storage class (VCI): 3	
	Chemical: <i>Alizarine-3-methylamine-N,N-diaceti</i> Water hazard class (DE): 2	c acid (Dihydrate) CAS No.: -
	Chemical: acetate buffer solution Storage class (VCI): 12	CAS No.: -
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 no data available	
12.6	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**

14.1. UN number: 14.3. Class: Road transport		UN proper shipping Packing group: II	name: Chemical Kit
Classification code:	M11	Tunnel restriction coo	de <sup>.</sup> F
Limited Quantity:			native declaration for transportation
Air transport			
PAX:	960	max. weight PAX:	10 KG
CAO:	960	max. weight CAO:	10 KG
Maritime transport		2	
EmS:	F-A, S-P	Storage category:	A

Or use Alternative declaration for transportation:

14.1 UN number: 14.3 Class: Road transport	3 14.4	UN proper shipping na Packing group: II	ame: Flammable liquid, n.o.s. (acetone mixture)
Classification code:	F1		
Limited Quantity:	1 L	Tunnel restriction code	e: E
Excepted Quantity: Air transport	E 2	Special instructions: 6	640C
PAX:	353	max. weight PAX:	5 L
CAO: Maritime transport	364	max. weight CAO:	60 L
EmS:	F-E, S-E	Storage category: I	В

#### 14.5 **Environmental hazards**

none, contains only small quantities of hazardous substances

#### Special precautions for user 14.6

not necessary



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

not applicable

### **SECTION 15: Regulatory information**

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

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung -GefStoffV), revised on November 2010, according to Directive 98/24/EC

TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products, updated October 2011

MN Leaflet/User manual, also see www.mn-net.com Look for your country-specific regulations.

#### 15.2 Chemical safety assessment

not necessary for these small amounts ---

## SECTION 16: Other information

#### 16.1 List of H and P phrases

16.1.1	List of relevant H phrases		
	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.	
16.1.2	List of relevant P phrases		
	P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking	
	P233	Keep container tightly closed.	
	P260D	Do not breathe vapours	

### P280sh 16.2

Training advice Regular safety training.

#### 16.3 Recommended restriction on use

Only for professional user.

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

Wear protective gloves/eye protection.

#### 16.4 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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#### 16.5 Sources of key data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 487/2013/EU, 4th adaptation of CLP regulation to technical and scientific progress Regulation 669/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress Regulation 1480/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress TRGS 900, German engineering rules governing limits in air at work, updated 03/2019 SUVA .CH, Limits in air at work 2009, revised on 01.2009 KÜHN. BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

### **Revisions/Updates**

Reason for Revision: 2016-03 Adaptation of regulation 1221/2015/EU



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