MACHEREY-NAGEL



Safety Data Sheet

according to Regulations REACh 1907/2006/EC

REF: 91323	QUANTOFIX Carbonate alkalinity	Page: 1/8
Printing date: 04.04.2023	Date of issue: 24.10.2022	Version: 2.2.2.4

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

REF Product name 91323 QUANTOFIX Carbonate alkalinity

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.

1 x 100 test strips

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.

If CE labelling: Product for in-vitro-diagnostic use (IVD) or Accessory for medical use **Uses advised against**

not described

1.3 Details of the supplier of the safety data sheet

Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11, 52355 Düren, Germany Phone: +49 2421 969 0

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

1.4 Emergency telephone number

Information not necessary.

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
- 2.1 Classification of the substance or mixture according to Regulation (EC) 1272/2008 100 test strips

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

100 test strips

Do not need labelling as hazardous

Signal word: -

Label elements of the complete product

2.3 Other hazards

Possible hazards from physicochemical properties

According to our current status of knowledge and experience we state, that this product does not contain any substances, which - in accordance with EC regulations 1272/2008/EC, 1907/2006/EC and German Regulations for Hazardous goods - have to be declared as dangerous goods, either because of their applied concentration or because of their total amount in anyone kit. An individual package has considerably less hazardous potential.



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CHEREY-NAGEL MA



Safety Data Sheet

according to Regulations REACh 1907/2006/EC

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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

SECTION 3: Composition / information on ingredients

3.1 Substances or 3.2 Mixtures

100 test strips

Substance name: CAS No.:	PVC foil (CAS 9002-86-2) -
Substance rating: Concentration: acc. CLP (GHS):	No criteria for classification or naming of chemical not required. 95 - <100 $\%$ The criteria for classification are not fulfilled.
Substance name: CAS No.:	<i>cellulose paper</i> 9004-34-6
Substance rating: Formula: REACH Reg. No.: EC No.: Concentration: acc. CLP (GHS):	No criteria for classification or naming of chemical not required. (C $_6$ H $_{10}$ O $_5$) n exempt, Annex IV 232-674-9 1 - <10 % The criteria for classification are not fulfilled.
Substance name: CAS No.:	chemicals/mixture until 1% -
Substance rating: Concentration: acc. CLP (GHS):	No criteria for classification or naming of chemical not required. 0,1 - <1 $\%$ The criteria for classification are not fulfilled.

3.3 Remarks

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

SECTION 4: First aid measures

4.1	Description of first aid measures Place insured person out of danger zone to fresh air immediately.
4.1.1	After SKIN Contact Remove dust with wetted tissue. Not necessary.
4.1.2	After EYE Contact Rub dust with teardrops from eyes Not necessary.
4.1.3	After INHALATION of vapours Not necessary. After inhalation of dust fresh air should be inhaled
4.1.4	After ORAL Intake Not necessary.
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. ---



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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.
 5.1.2 Unsuitable extinguishing media no data available
- 5.2 Special hazards arising from the substance or mixture None.
 5.3 Advice for firefighters

No, for listed product.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 Not necessary.
- 6.2 Environmental precautions not necessary
- 6.3 Methods and material for containment and cleaning up Clean working area with water. Flush used 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.
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): 11 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. If CE labelling: Product for in-vitro-diagnostic use (IVD) or Accessory for medical use
9501	CION 8: Exposure controls (porsonal protection

SECTION 8: Exposure controls /personal protection

8.1 Control parameters

100 test strips

 Chemical:
 PVC foil (CAS 9002-86-2)
 CAS No.:

 Chemical:
 cellulose paper
 CAS No.: 9004-34-6

 TRGS 900 (DE):
 Staub 1.25 A / 4 E mg/m³
 E/e respirable

 SUVA(CH) MAK value:
 3 a ppm

 NIOSH:
 TWA 10 (total) / 5 (resp) mg/m³

 [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

 OSHA:
 TWA 15 (total) / 5 (resp) mg/m³



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date: 04.04.2023	Date of issue: 24.10.2022		Version: 2.2.2.4
Chemical: chemicals/mixture uni	iil 1%	CAS No.: -	
Exposure controls Not necessary.			
Respiratory protection Not necessary.			
Skin protection / Hand protection Not necessary.			
Eye / Face Protection Not necessary.			
Skin protection Not necessary.			
Personal hygiene Information not necessary.			
Thermal hazards no data available			
Limitation and monitoring of en Information not necessary.	nvironmental exposure		
	Exposure controls Not necessary. Respiratory protection Not necessary. Skin protection / Hand protection Not necessary. Eye / Face Protection Not necessary. Skin protection Not necessary. Skin protection Not necessary. Personal hygiene Information not necessary. Thermal hazards no data available Limitation and monitoring of en	date: 04.04.2023 Date of issue: 24.10.2022 Chemical: chemicals/mixture until 1% Exposure controls Not necessary. Respiratory protection Not necessary. Skin protection / Hand protection Not necessary. Skin protection / Hand protection Not necessary. Skin protection / Hand protection Not necessary. Eye / Face Protection Not necessary. Skin protection Not necessary. Personal hygiene Information not necessary. Information not necessary. Thermal hazards no data available Limitation and monitoring of environmental exposure	date: 04.04.2023 Date of issue: 24.10.2022 Chemical: chemicals/mixture until 1% CAS No.: - Exposure controls Not necessary. Not necessary. Respiratory protection Not necessary. Skin protection / Hand protection Not necessary. Skin protection / Hand protection Not necessary. Eye / Face Protection Not necessary. Skin protection Not necessary. Skin protection Not necessary. Fye / Face Protection Not necessary. Skin protection Not necessary. Function Information not necessary. Function No data available Limitation and monitoring of environmental exposure

9.1 Information on basic physical and chemical properties

100	test	strips	
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a) State of aggregation:	solid
b) Colour:	colored
c) Odor:	odorless
d) Melting point:	no data available
e) Boiling point:	no data available
f) Flammability:	no data available
g) Explosive limits (lower / upper):	no data available
h) Flash point:	no data available
i) Flashing temperature:	no data available
j) Decomposition temperature:	no data available
k) pH value:	no data available
I) Kinematic viscosity:	no data available
m) Solubility in water:	no data available
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

Properties relevant to substance groups

SECTION 10: Stability and reactivity

- 10.1 Reactivity None
- 10.2 **Chemical stability**

no known instability.



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10.3	Possibility of hazardous read				
10.4	Conditions to avoid Not known.				
10.5	Incompatible materials Not known.				
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.				
SECT	ION 11: Toxicological info	ormation			
11.1	Information on the hazard cla	asses according regulation (EC) 1272/2008			
	Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.				
	100 test stripsChemical:PVC foil (C/TSCA Inventory:lister	,	No.: -		
	Target Organs:EyestSymptoms:irritatAustralia NICNAS:not IJapan CSCL/PRTR:not IJapan ISHL:not ISouth Korea TCCA:not IKorea Exist.Chem.Inventory:KE-0LD50 orl rat:> 50LC50 ihl rat:> 5,1	d California Proposition 65 List: not listed lation, skin and/or eye contact s, skin, respiratory system tion eyes, skin, mucous membrane isted Canada CEPA 1999: DSL yes isted, Japan PDSCL: not listed isted 05339 000 mg/kg 800 mg/L/4H	No.: 9004-34-6 No.: -		
		sted, <1%			
11.2	Other hazards				
	Possible endocrine disrupting e no data available	offects			
	Other information no additional data available				
SECT	ION 12: Ecological inform	ation			
12.1	Toxicity Following information is valid for pu	ire substances.			
	100 test strips Chemical: PVC foil (Cr	AS 9002-86-2) CAS	No.: -		
	Chemical: <i>cellulose pa</i> Water hazard class (DE): Storage class (VCI):	aper CAS nwg 11	No.: 9004-34-6		
	Chemical: chemicals/n Water hazard class (DE): Storage class (VCI):	nixture until 1% CAS 1 12-13	No.: -		



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12.2	Persistence and degradab	lity	
12.3	Bioaccumulative potential not necessary		
12.4	Mobility in soil not necessary		
12.5	Results of PBT and vPvB a This substance/mixture contains no and very bioaccumulative (vPvB) at	ntains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent	
12.6	Endocrine disrupting prop no data available	erties	
12.7	Other adverse effects no additional data available		
SECT	TION 13: Disposal consid	lerations	
N	lot necessary.		
13.1	Waste treatment methods GENERAL: Empty solids into munic	ipal waste, empty liquids diluted into drains.	

SECTION 14: Transport information

14.1 - 14.4 Not necessary

- 14.5 Environmental hazards
 - none
- 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 MN leaflet/instructions for use, also at www.mn-net.com If necessary, observe other country-specific regulations.

15.2 Chemical safety assessment

SECTION 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 relevant H phrases
- 16.2.2 List of relevant P phrases
- 16.3 Recommended restriction on use None



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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 II of the REACH regulation 1907/2006/EG

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 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP) Regulation 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP)

revisions/updates

Reason for revision:

on: 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

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16.6 Legend / Abbreviations

according
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



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	Industrial Cafety and Lealth Law (In)	
ISHL:	Industrial Safety and Health Law (Jp) letale concentration 50%	
LC50:		
LD50:	letale dosis 50%	
leuciscus idus: fisch, ide, orfe		
MAK:	maximum workplace concentration	
Met:	Metall	
mus:	mouse	
Muta:	mutagen	
NIOSH: NRD:	National Institute for Occupational Safety and Health (US)	
	Non-rapidly degradable	
onchorhynchus mykiss: fish, rainbow trout		
orl:	oral	
OSHA: PAX:	Occupational Safety and Health Administration	
PAA. PBT:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance	
рН:	pH value	
PNEC:	romelas: fish, fathead minnow 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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