# **MACHEREY-NAGEL**



# Safety Data Sheet

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

REF: 91344	QUANTOFIX Total iron 100	Page: 1/8
Printing date: 22.11.2022	Date of issue: 24.10.2022	Version: 2.2.2.4

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

1.1 **Product identifier** REF 91344 no data available QUANTOFIX Total iron 100 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) Lieferant | Supplier: Roth GmbH + Co KG 1.4 Emergency telephone number <http://www.mn-net.com/SDS>emperienstr. 3-5 Information not necessary. . 76185 Karlsruhe, Germany You find our current versions of SDS in Internet: +49 721 5606 0 sicherheit@carlroth.de **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

Do not r

Do not need labelling as hazardous

No hazard class

List of H phrases: see section 16.2

Signal word

#### 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

Signal word: -



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#### 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.

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

51	Substance name: CAS No.:	<i>cellulose paper</i> 9004-34-6
	Substance rating: Formula: REACH Reg. No.: EC No.: Concentration: acc. CLP (GHS): Substance name: CAS No.:	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. <i>chemicals/mixture until 1%</i>
	Substance rating: Concentration: acc. CLP (GHS): Substance name: CAS No.:	No criteria for classification or naming of chemical not required. 0,1 - <1 % The criteria for classification are not fulfilled. <i>PVC foil (CAS 9002-86-2)</i> -
5	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.

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



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# **MACHEREY-NAGEL**



# Safety Data Sheet

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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.

- 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	<b>Precautions for safe handling</b> 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	<b>Specific end use(s)</b> Product for analytical use. If CE labelling: Product for in-vitro-diagnostic use (IVD) or Accessory for medical use
SECT	FION 8: Exposure controls /personal protection

#### 8.1 Control parameters

#### 100 test strips

Chemical: cellulose paper CAS No.: 9004-34-6 TRGS 900 (DE): Staub 1.25 A / 4 E mg/m<sup>3</sup> E/e respirable SUVA(CH) MAK value: 3 a ppm NIOSH: TWA 10 (total) / 5 (resp) mg/m<sup>3</sup> [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period



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	OSHA:	TWA 15 (total) / 5 (resp) mg/m³		
	Chemical:	chemicals/mixture until 1%	CAS No.: -	
	Chemical:	PVC foil (CAS 9002-86-2)	CAS No.: -	
8.2	Exposure co Not necessary.	ontrols		
8.2.1	Respiratory Not necessa	<b>y protection</b> ary.		
8.2.2	Skin protect Not necessa	ction / Hand protection ary.		
8.2.3	Eye / Face Not necessa			
8.2.4	Skin protect Not necessa			
8.2.5	Personal hy Information	<b>ygiene</b> not necessary.		
8.2.6	<b>Thermal ha</b> no data ava			
8.3	Limitation and Information not r	nd monitoring of environmental exposure necessary.		
SECI	TION 9: Phys	ical and chemical properties		
9.1	Information	on basic physical and chemical properties		
	100 test str	ips		

a) State of aggregation:	
b) Colour:	colourless
c) Odor:	red
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 <sub>(o/w)</sub> :	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	no data available
q) Relative vapour density <sub>(air=1)</sub> :	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



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10.2	Chemical stability no known instability.			
10.3	Possibility of haza	rdous reactions		
10.4	Conditions to avo Not known.	id		
10.5	Incompatible mate Not known.	erials		
10.6		<b>position products</b> all parts/all reagents are safety and separated sto ded conditions.	ored. Decompositions are not observ	ed during the expiration
SECT	ION 11: Toxicolo	gical information		
11.1		e hazard classes according regulation is valid for pure substances. Quantitative data		t available.
	100 test strips Chemical: TSCA Inventory: Exposure Routes: Target Organs: Symptoms: Australia NICNAS: Japan CSCL/PRTF Japan ISHL: South Korea TCCA Korea Exist.Chem.I LD50 orl rat : LC50 ihl rat :	inhalation, skin and/or eye contact Eyes, skin, respiratory system irritation eyes, skin, mucous membran not listed Canada not listed, Japan PDSCL: not listed not listed	CAS No.: 9004 sition 65 List: not listed e CEPA 1999: DSL yes	-34-6
	Chemical: TSCA Inventory: Korea Exist.Chem.I	<i>chemicals/mixture until 1%</i> all listed, <1% nventory: listed	CAS No.: -	
	Chemical: TSCA Inventory:	PVC foil (CAS 9002-86-2) listed	CAS No.: -	
11.2	Other hazards			
	Possible endocrin no data available	e disrupting effects		
	Other information no additional data a	vailable		

# **SECTION 12: Ecological information**

### 12.1 Toxicity

Following information is valid for pure substances.

	lulose paper	CAS No.: 9004-34-6
Water hazard class (DE):	nwg	
Storage class (VCI):	11	
Chemical: che	emicals/mixture until 1%	CAS No.: -
Water hazard class (DE):	1	
Storage class (VCI):	12-13	



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	Chemical:	PVC foil (CAS 9002-86-2)	CAS No.: -	
12.2	Persistence and not necessary	l degradability		
12.3	Bioaccumulative not necessary	e potential		
12.4	Mobility in soil not necessary			
12.5	This substance/mixtu	and vPvB assessment re contains no components considered to be either p ative (vPvB) at levels of 0.1% or higher	ersistent, bioaccumulative and toxic (l	PBT) or very persisten
12.6	Endocrine disru no data available	pting properties		
12.7	Other adverse en no additional data av			
SECT	ION 13: Dispos	al considerations		
N	ot necessary.			
13.1	Waste treatmen GENERAL: Empty so	<b>t methods</b> lids into municipal waste, empty liquids diluted into d	ains.	
SECT	ION 14: Transp	ort information		
1	4.1 - 14.4 Not necessary			
14.5	Environmental I	nazards		
14.6	Special precaut not necessary	ions for user		
14.7	<b>Transport in bu</b> Not applicable.	k according to Annex II of MARPOL and	I the IBC Code	
SECT	ION 15: Regula	tory information		
15.1	Dangerous Substanc Ordinance on protect MN leaflet/instruction	nd environmental regulations/legislation es Protection Act (DE: Chemikaliengesetz - ChemG), ion against dangerous substances (E: Gefahrstoffver s for use, also at www.mn-net.com e other country-specific regulations.	Aug 2013, Stand: Okt 2020	

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



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#### 16.3 Recommended restriction on use

#### 16.4 Sources of key data

None

KÜHN, BIRETT leaflets on dangerous working materials

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 the CLP Regulation 1272/2008/EU to technical and scientific progress Regulation 453/2010/EU REACH – REQUIREMENTS FOR THE PREPARATION OF SAFETY DATA SHEET Regulation 487/2013/EU, 4. Adaptation of the CLP regulation to technical and scientific progress Regulation 669/2018/EU, 4. Adaptation of the CLP regulation to technical and scientific progress Regulation 1480/2018/EU, 4. Adaptation of the CLP regulation to technical and scientific progress Regulation 1480/2018/EU, 4. Adaptation of the CLP regulation to technical and scientific progress Regulation 1480/2018/EU, 4. Adaptation of the CLP regulation to technical and scientific progress TRGS 900, German engineering rules on limit values in the air at work, as of 03/2019 Regulation 878/2020/EU Regulation 849/2021/EU, 4. Adaptation of the CLP regulation to technical and scientific progress

#### Revisions/Updates

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

2017-11 adaptation of the ECHA registration dossier 2022-11 Adjustment of Regulation 878/2020/EU

#### 16.5 Further information

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#### 16.6 Legend / Abbreviations

- J	
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
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	:: fisch, ide, orfe
MAK:	maximum workplace concentration



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Met: mus: Muta: NIOSH: NRD: onchorhynchu orl: OSHA: PAX: PBT: pH:	Metall mouse mutagen National Institute for Occupational Safety and Health (US) Non-rapidly degradable is mykiss: fish, rainbow trout oral Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance 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: RIP:	respiratory 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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