MACHEREY-NAGEL



SDS acc. Hazard Communication Standard

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

1.1 Product Identifier / Product Name

REF Product Name 91313 QUANTOFIX Nitrate/Nitrite

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 and of the Safety Data Sheet

Manufactured by:

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

1.4 Emergency Telephone Number

Information not necessary.

You find our current versions of SDS in Internet:

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

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

SECTION 2: Hazard(s) Identification

2.0 Classification of the complete Product

2.1 Classification of the substance or mixture

100 test strips

Signal Word

Do not need labelling as hazardous

No Hazard Class

List of H phrases: see section 16.2

2.2 Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

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.

Information pertaining to particular Risks to Human and possible Symptoms



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Information pertaining to particular Risks to the Environment

Possible endocrine disrupting effects data not available

SECTION 3: Composition/Information on Ingredients

3.1 Substances or 3.2 Mixtures

100 test strips

τ	Substance name: CAS No.:	PVC foil (CAS 9002-86-2) -
	Substance rating: Concentration: acc. GHS:	No criteria for classification or naming of chemical is not required. 95 - <100 % The criteria for classification are not fulfilled.
	Substance name: CAS No.:	<i>cellulose paper</i> 9004-34-6
	Substance rating: Chemical Formula: REACH Reg. No.: EC No.: Concentration: acc. GHS:	No criteria for classification or naming of chemical is 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. GHS:	No criteria for classification or naming of chemical is 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 Hazard and Precaution 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 Vapors Not necessary. After inhalation of dust fresh air should be inhaled.
4.1.4	After ORAL Intake Not necessary.

- Most important Symptoms and Effects, both acute and delayed 4.2
- 4.3 Indication of any immediate Medical Attention and Special Treatment needed No additionally recommendations. ---





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SECTION 5: Fire-Fighting Measures

5.1 Extinguishable 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. Fire extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

 5.1.2 Unsuitable extinguishing media
- data not 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 Procedure 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 sewer.
- 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
	The original product package allows a safe storage. 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

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

 NIOSH:
 TWA 10 (total) / 5 (resp) mg/m³
 CAS No.: 9004-34-6

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



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	Chamical, chamicala	lesisteres contil d0/		
	Chemical: chemicals	/mixture until 1%	CAS No.: -	
3.2	Exposure Controls			
-	Not necessary.			
8.2.1	Respiratory Protection			
	Not necessary.			
8.2.2	Skin protection / Hand Not necessary.	protection		
8.2.3				
0.2.3	Eye / Face Protection Not necessary.			
8.2.4	Skin Protection Not necessary.			
8.2.5	Hygiene Measures Information not necessar	у.		
8.2.6	Thermal hazards data not available			
8.3		ring of environmental exposure		
0.0		ing of on information a expectato		
	Information not necessary			
	Information not necessary.			
SEC	-	Chemical Properties		
SEC] 9.1	ION 9: Physical and	Chemical Properties Physical and Chemical Properties		
	ION 9: Physical and Information on Basic F	•		
	TION 9: Physical and Information on Basic F 100 test strips	•		
	ION 9: Physical and Information on Basic F	Physical and Chemical Properties		
	FION 9: Physical and Information on Basic F 100 test strips a) State of aggregation:	Physical and Chemical Properties		
	FION 9: Physical and Information on Basic F 100 test strips a) State of aggregation: b) Color:	Physical and Chemical Properties solid colored		
	FION 9: Physical and Information on Basic F 100 test strips a) State of aggregation: b) Color: c) Odor:	Physical and Chemical Properties solid colored odorless		
	FION 9: Physical and Information on Basic F a) State of aggregation: b) Color: c) Odor: d) Melting Point:	Physical and Chemical Properties solid colored odorless data not available		
	FION 9: Physical and Information on Basic F 100 test strips a) State of aggregation: b) Color: c) Odor: d) Melting Point: e) Boiling Point:	Physical and Chemical Properties solid colored odorless data not available data not available data not available	2	
	FION 9: Physical and Information on Basic F 100 test strips a) State of aggregation: b) Color: c) Odor: d) Melting Point: e) Boiling Point: f) Flammability:	Physical and Chemical Properties solid colored odorless data not available data not available data not available		
	FION 9: Physical and Information on Basic F 100 test strips a) State of aggregation: b) Color: c) Odor: d) Melting Point: e) Boiling Point: f) Flammability: g) Explosive Limits (lower	r / upper):		
	TION 9: Physical and Information on Basic F 100 test strips a) State of aggregation: b) Color: c) Odor: d) Melting Point: e) Boiling Point: f) Flammability: g) Explosive Limits (lower h) Flash Point: i) Autoignition Temperatu j) Decomposition Temper	r / upper): re: colored colored odorless data not available data not available		
	FION 9: Physical and Information on Basic F 100 test strips a) State of aggregation: b) Color: c) Odor: d) Melting Point: e) Boiling Point: f) Flammability: g) Explosive Limits (lower h) Flash Point: i) Autoignition Temperatu	Physical and Chemical Properties solid colored odorless data not available data not available		
	TION 9: Physical and Information on Basic F 100 test strips a) State of aggregation: b) Color: c) Odor: d) Melting Point: e) Boiling Point: f) Flammability: g) Explosive Limits (lower h) Flash Point: i) Autoignition Temperatu j) Decomposition Temper	r / upper): re: re: colored data not available data not available		
	FION 9: Physical and Information on Basic F 100 test strips a) State of aggregation: b) Color: c) Odor: d) Melting Point: e) Boiling Point: f) Flammability: g) Explosive Limits (lower h) Flash Point: i) Autoignition Temperatu j) Decomposition Tempertu j) Decomposition Temperatu j) Decomposition Tempertu j) Decomposition Temperatu j) Decomposition Temperatu j) Decomposition Temperatu j) Decomposition Temperatu j) Decomposition Temperatu j) Soluble in Water:	Physical and Chemical Properties solid colored odorless data not available data not available		
	FION 9: Physical and Information on Basic F 100 test strips a) State of aggregation: b) Color: c) Odor: d) Melting Point: e) Boiling Point: f) Flammability: g) Explosive Limits (lower h) Flash Point: i) Autoignition Temperatu j) Decomposition Temper k) pH Value: l) Kinematic Viscosity:	Physical and Chemical Properties solid colored odorless data not available data not available		
	FION 9: Physical and Information on Basic F 100 test strips a) State of aggregation: b) Color: c) Odor: d) Melting Point: e) Boiling Point: f) Flammability: g) Explosive Limits (lower h) Flash Point: i) Autoignition Temperatu j) Decomposition Temperatu j) Ninematic Viscosity: m) Soluble in Water: n) Partition Coefficient (of o) Vapor Pressure (68°F) 	Physical and Chemical Properties solid colored odorless data not available data not available		
	FION 9: Physical and Information on Basic F 100 test strips a) State of aggregation: b) Color: c) Odor: d) Melting Point: e) Boiling Point: f) Flammability: g) Explosive Limits (lower h) Flash Point: i) Autoignition Temperatur j) Decomposition Temperatur j) Decomposition Temperatur j) Decomposition Temperatur j) Decomposition Temperatur j) Decomposition Temperatur j) Decomposition Temperatur j) Soluble in Water: n) Partition Coefficient (of o) Vapor Pressure (68°F) p) Specific Gravity:	Physical and Chemical Properties solid colored odorless data not available data not available		
	FION 9: Physical and Information on Basic F 100 test strips a) State of aggregation: b) Color: c) Odor: d) Melting Point: e) Boiling Point: f) Flammability: g) Explosive Limits (lower h) Flash Point: i) Autoignition Temperatu j) Decomposition Temperatu j) Ninematic Viscosity: m) Soluble in Water: n) Partition Coefficient (of o) Vapor Pressure (68°F) 	Physical and Chemical Properties solid colored odorless data not available data not available		

9.2 **Further 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 Hazar			
10.4	Conditions to avoid Not known.	1		
10.5	Incompatible Mater Not known	ials		
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: Toxicolog	ical Information		
11.1		-	s . Quantitative data on the toxicity of this	s product are not available.
	100 test strips Chemical: TSCA Inventory:	PVC foil (CAS 9002-86-2 listed	2)	CAS No.: -
	Chemical: TSCA Inventory: Exposure Routes: Target Organs: Symptoms: Canada CEPA 1999: LD50 orl rat : LC50 ihl rat :			CAS No.: 9004-34-6
	Chemical: TSCA Inventory:	chemicals/mixture until 1 all listed, <1%	%	CAS No.: -
11.2	Other Hazards			
	Possible endocrine	disrupting effects		

ine disrupting effects data not available Other Information no additional data available

SECTION 12: Ecological Information

12.1 Toxicity

Following information is valid for pure chemicals.

100 test strips Chemical:	PVC foil (CAS 9002-86-2)	CAS No.: -
Chemical:	cellulose paper	CAS No.: 9004-34-6
Chemical:	chemicals/mixture until 1%	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**

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





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12.6 Endocrine disrupting properties

data not available 12.7 Other Adverse Effects no additional data available

SECTION 13: Disposal Considerations

Not necessary.

13.1 Waste Treatment Methods

GENERAL: Empty solids into municipal 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 of bulk cargo 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 U.S. Federal Regulations

OSHA "A Guide to The Globally Harmonized System of Classification and Labelling of Chemicals (GHS)" https://www.osha.gov/dsg/hazcom/ghs.html 29 CFR 1910.1200 Hazard communication. MN Leaflet/User manual, also see www.mn-net.com

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 Hazard and Precaution Phrases

1621 List of relevant H Phrases

List of relevant P Phrases 1622

16.3 **Recommended Restriction on Use**

None

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



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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 692/2022/EU, adaptation of Annex VI, Part 1, 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 (18th ATP) Regulation 692/2022/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (18th ATP) Regulation 692/2022/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (18th 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.

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16.6 Legend / Abbreviations

Legenu / F	ablieviations
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 specified)
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	
MAK:	maximum workplace concentration
Met:	Metall
mus:	mouse
Muta:	mutagen
NIOSH:	National Institute for Occupational Safety and Health (US)
NRD:	Non-rapidly degradable
onchorhynchu	
orl:	oral Occupational Safety and Hoalth Administration
OSHA:	Occupational Safety and Health Administration
PAX: PBT:	transport on passenger planes allowed
FDI.	persistent, bioaccumulating, toxic substance



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pH: pimephales pr PNEC: PROC 15: PRTR: PVC:	pH value omelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride
quail:	bird, quail
rat:	rat
rbt:	rabbit
RD: RE:	rapidly degradable repeated
REACh:	Registration, Evaluation, Authorisation and Restriction of Chemicals
REF:	item number, reference number
Reg.No.:	rRegistration number
Repr:	harmful to reproduction
Resp:	respiratory
SCU:	sub cutan
RIP:	REACH Implementations Projects
SDS:	safety data sheet
Sens:	sensitisation
STEL:	short term exposure limit
STOT:	Specific Target Organ Toxicity
SVHC:	Substance of Very High Concern
t/a: TCCA:	tons per year Taxia Chamicala Control Act (S. Karaa)
Tox:	Toxic Chemicals Control Act (S. Korea) 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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