

Material Safety Data Sheet

according to Directive 1907/2006/EC (REACH) and 453/2010/EU

Printing date: 28.05.2014

Date of issue: 11.03.2014

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1 Identification of the Substance/Mixture and of the Company

1.1 Product identifier

REF	91316
Product name	QUANTOFIX Potassium / 100
	2 x 25 mL Potassium-1
	1 x 100 test strips

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

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.

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: msds@mn-net.com

1.4 Emergency telephone number

Information not necessary.

2 Hazard Identification

2.1 Classification of the substance(s) or mixture(s) - in the complete product

Directive 1999/45/EC	
Symbols	-
R	-
CLP Directive 1272/2008/EC	
GHS pictograms	-

2.2 Hazard Description

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, 1999/45/EC, 67/548/EEC 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

Other Hazards

2.3 Other hazards: Description of the components

25 mL Potassium-1

Directive 1999/45/EC

Symbols	-	do not need labelling as hazardous
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CLP Directive 1272/2008/EC

GHS pictograms	-	do not need labelling as hazardous
Signal word	-	do not need labelling as hazardous

No hazard class



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100 test strips

Directive 1999/45/EC

Symbols do not need labelling as hazardous

CLP Directive 1272/2008/EC

GHS pictograms do not need labelling as hazardous
Signal word do not need labelling as hazardous

No hazard class

3 Composition/Information on Ingredients

3.1 Substances or 3.2 Mixtures

25 mL Potassium-1

Chemical:	<i>nitric acid</i>	CAS No.:	7697-37-2
Concentration:	< 1,00 %		
Formula:	HNO ₃ · H ₂ O		
REACH Reg. No.:	01-2119487297-23-xxxx		
EC No.:	231-714-2	Indice No.:	007-004-00-1
RTECS:	QU5900000		
TSCA Inventory:	listed		
acc. 1999/45/EC:	-	acc. CLP (GHS):	not necessary

100 test strips

Chemical:	<i>cellulose</i>	CAS No.:	9004-34-6
Concentration:	1 - 10 %		
Formula:	(C ₆ H ₁₀ O ₅) _n		
REACH Reg. No.:	exempt, Annex IV		
EC No.:	232-674-9		
RTECS:	FJ5691460		
TSCA Inventory:	listed		
acc. 1999/45/EC:	-	acc. CLP (GHS):	not necessary
Chemical:	<i>chemicals/mixture < 1%, no declaration necessary</i>	CAS No.:	-
Concentration:	0,1 - 1 %		
acc. 1999/45/EC:	-	acc. CLP (GHS):	not necessary
Chemical:	<i>PVC foil (CAS 9002-86-2)</i>	CAS No.:	-
Concentration:	95 - 100 %		
acc. 1999/45/EC:	-	acc. CLP (GHS):	not necessary

3.2 Remarks

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**
Not necessary. Remove dust with wetted tissue.
- 4.1.2 **After EYE Contact**
Not necessary. Rub dust with teardrops from eyes
- 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 Indication of any immediate medical attention and special treatment needed

No additionally recommendations.



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5 Firefighting Measures

5.1 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.

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

6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Not necessary.

6.2 Methods and material for containment and cleaning up

Clean working area with water. Flush used water into drains.

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 of MACHEREY-NAGEL allows a safe storage.
Storage class (German chemical industry): see chapter 12.1

7.2.1 Requirements for Stock Rooms and Containers

Keep original product packages tightly closed during handling and storage.

8 Exposure Controls/Personal Protection

8.1 Control parameters

25 mL Potassium-1

Chemical: *nitric acid*

CAS No.: 7697-37-2

DNEL: 1.3_{inh} mg/m³

DNEL = Derived No-Effect Level (for workers)

EU value: 1 ppm / 2.6 mg/m³

TRGS 900 (DE): 1 ppm / 2,6 mg/m³

E/e respirable

Short-term exposure factor: -

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 2 ppm / 5 mg/m³

TRGS 905 (DE): R_F D

Australia NICNAS: not listed Canada CEPA 1999: DSL Yes

Japan CSCL/PRTR: not listed

Japan PDSCL: Deleterious Substance Yes Japan ISHL: Article 57-2 (SDS required)

South Korea TCCA: Accident Precaution Chemical Yes

TSCA Inventory: listed California Proposition 65 List: not listed

NIOSH: TWA 2 ppm / 5 mg/m³ NIOSH STEL: 4 ppm / 10 mg/m³

OSHA: List of highly hazardous chemicals, toxics and reactives Yes (TQ = 500 lbs) n/a; TWA 2 ppm / 5 mg/m³

100 test strips

Chemical: *cellulose*

CAS No.: 9004-34-6

TRGS 900 (DE): Staub 4 E mg/m³

E/e respirable

SUVA(CH) MAK value: 3 a ppm

Australia NICNAS: not listed Canada CEPA 1999: DSL yes

Japan CSCL/PRTR: not listed

Japan PDSCL: not listed Japan ISHL: not listed

South Korea TCCA: not listed

TSCA Inventory: listed California Proposition 65 List: not listed

NIOSH: not listed

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OSHA: not listed

Chemical: *chemicals/mixture < 1%, no declaration necessary*

CAS No.: -

Chemical: *PVC foil (CAS 9002-86-2)*

CAS No.: -

8.2 Exposure controls

Not necessary.

8.2.1 Respiratory Protection

Not necessary.

8.2.2 Hand Protection

Not necessary.

8.2.3 Eye Protection

Not necessary.

8.2.4 Skin Protection

Not necessary.

8.2.5 Personal Hygiene

Information not necessary.

9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

25 mL Potassium-1

Color: colourless

Odor: odorless

Appearance: liquid

100 test strips

Color: colored

Odor: odorless

Appearance: solid

9.2 Other information

9.2.1 Safety relevant Basis Data

25 mL Potassium-1

pH:

2-3

Specific gravity:

1,00 g/mL

Solubility in water:

0-100 %

100 test strips

9.2.2 Relevant Properties of Substance Group

9.3 Additional Information

not necessary

10 Stability and Reactivity

10.1 Conditions to avoid

Not necessary. When indicated in packing insert.

10.2 Incompatible materials

Not necessary. Avoid contact with concentrated acids and oxidizing agents.

10.3 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.

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.

25 mL Potassium-1

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Chemical:	<i>nitric acid</i>	CAS No.: 7697-37-2
LC ₅₀ oral hmn :	430 mg/kg	
LC50 _{ihl} rat :	NO ₂ 67 _{4h} ppm	

100 test strips

Chemical:	<i>cellulose</i>	CAS No.: 9004-34-6
LD50 _{orl} rat :	>5000 mg/kg	
LC50 _{ihl} rat :	>5800 _{4h} mg/m ³	
LD50 _{drm} rbt :	>2000 mg/kg	

Chemical:	<i>chemicals/mixture < 1%, no declaration necessary</i>	CAS No.: -
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Chemical:	<i>PVC foil (CAS 9002-86-2)</i>	CAS No.: -
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12 Ecological information

12.1 Toxicity

Following information is valid for pure substances.

25 mL Potassium-1

Chemical:	<i>nitric acid</i>	CAS No.: 7697-37-2
LC50 _{daphnia magna/48h} :	180 mg/L	
LC50 _{fish/96h} :	72 mg/L	
WGK (DE):	1	WGK No.: 0414
Storage class (VCI):	8 B	

100 test strips

Chemical:	<i>cellulose</i>	CAS No.: 9004-34-6
WGK (DE):	nwg	
Storage class (VCI):	11	

Chemical:	<i>chemicals/mixture < 1%, no declaration necessary</i>	CAS No.: -
WGK (DE):	1	

Chemical:	<i>PVC foil (CAS 9002-86-2)</i>	CAS No.: -
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13 Disposal Considerations

Not necessary.

13.1 Waste treatment methods

GENERAL: Empty solids into municipal waste, empty liquids diluted into drains.

14 Transport Information

Not necessary

15 Regulatory Information

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

25 mL Potassium-1

Directive 1999/45/EC

Symbols:

-
-

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CLP Directive 1272/2008/EC

GHS pictograms:
do not need labelling as hazardous
Signal word: -

100 test strips

Directive 1999/45/EC

Symbols:
-
-

S 22
Do not breathe dust.

CLP Directive 1272/2008/EC

GHS pictograms:
do not need labelling as hazardous
Signal word: -

15.2 Chemical safety assessment

not necessary for these small amounts

16 Other Information

16.1 List of R and H phrases

16.1.1 List of relevant R phrases

16.1.2 List of relevant H phrases

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.

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
TRGS 900, German engineering rules governing limits in air at work, updated July 2012
SUVA .CH, Limits in air at work 2009, revised on 01.2009
KÜHN, BIRETT Merkbblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

16.6. Revisions/Updates

Reason for Revision: 2014-02 Corrected structure of sections acc. regulation 453/2010/EU, if necessary
2014-04 Adaptation of regulation 487/2013/EU

You find our current versions of MSDS in Internet:
<http://www.mn-net.com/MSDS>