

Safety Data Sheet

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

REF: 91316

QUANTOFIX Potassium

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Printing date: 28.03.2017

Date of issue: 28.03.2017

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

1.1 Product identifier

REF 91316
 Product name QUANTOFIX Potassium

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.

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

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
 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.

SECTION 2: Hazard identification

2.0 Classification of the complete product

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

2.1 Classification of the substance or mixture

25 mL Potassium-1

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 -

No hazard class

100 test strips

Directive 1999/45/EC
 -

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

GHS pictograms do not need labelling as hazardous
 Signal word -

No hazard class

2.2 Label elements

25 mL Potassium-1

Directive 1999/45/EC
 Symbols:
 -
 -

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: -

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, 1999/45/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

Other Hazards

SECTION 3: Composition/Information on Ingredients

3.1 Substances or 3.2 Mixtures

25 mL Potassium-1

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Chemical: *nitric acid* CAS No.: 7697-37-2
 Concentration: < 1,00 %
 Formula: HNO₃ ·H₂O
 Pseudonym: Aqua fortis, Engravers acid, hydrogen nitrate
 REACH Reg. No.: 01-2119487297-23-xxxx
 EC No.: 231-714-2 Indice No.: 007-004-00-1
 RTECS: QU5900000/QU5775000
 TSCA Inventory: listed
 KE No.: KE-25911, >10% Toxic 97-1-246, Acc. Precaution Chem.
 acc. 1999/45/EC: - acc. CLP (GHS): not necessary

100 test strips

Chemical: *cellulose* CAS No.: 9004-34-6
 Concentration: 1 - <10 %
 Formula: (C₆H₁₀O₅)_n
 REACH Reg. No.: exempt, Annex IV
 EC No.: 232-674-9
 RTECS: FJ5691460
 TSCA Inventory: listed
 KE No.: KE-05339
 acc. 1999/45/EC: - acc. CLP (GHS): not necessary

Chemical: *chemicals/mixture < 1%, no declaration necessary* CAS No.: -
 Concentration: 0,1 - <1 %
 TSCA Inventory: all <1%
 KE No.: listed
 acc. 1999/45/EC: - acc. CLP (GHS): not necessary

Chemical: *PVC foil (CAS 9002-86-2)* CAS No.: -
 Concentration: 95 - <100 %
 TSCA Inventory: listed
 acc. 1999/45/EC: - acc. CLP (GHS): not necessary

3.3 Remarks

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

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 Most important symptoms and effects, both acute and delayed

Avoid inhalation of dust. ---

4.3 Indication of any immediate medical attention and special treatment needed

No additionally recommendations. ---

SECTION 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.



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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

The original product package of MACHEREY-NAGEL allows a safe storage.

Storage class (VCI): 8B

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

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

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 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

OSHA: TWA 15 (total) / 5 (resp) mg/m³

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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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

25 mL Potassium-1		
Appearance: liquid	Color: colourless	Odor: odorless
pH: 2-3		
Specific gravity: 1,00 g/mL		
Solubility in water: 0-100 %		
100 test strips		
Appearance: solid	Color: colored	Odor: odorless

9.2 Other information
 Relevant Properties of Substance Group

SECTION 10: Stability and reactivity

10.1 Reactivity
 None

10.2 Chemical stability
 No known instability.

10.3 Possibility of hazardous reactions
 None.

10.4 Conditions to avoid

10.5 Incompatible materials
 Not necessary. Avoid contact with concentrated acids and oxidizing agents.

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.

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25 mL Potassium-1

Chemical: *nitric acid* CAS No.: 7697-37-2
 TSCA Inventory: listed California Proposition 65 List: not listed
 Exposure Routes: inhalation, ingestion, skin and/or eye contact
 Target Organs: Eyes, skin, respiratory system, teeth
 Symptoms: irritation eyes, skin, mucous membrane; delayed pulmonary edema, pneumonitis, bronchitis; dental erosion
 Australia NICNAS: not listed Canada CEPA 1999: DSL Yes
 Japan CSCL/PRTR: not listed
 Japan PDSCL: Deleterious Substance Japan ISHL: listed $\geq 1,0\%$ / $\geq 1,0\%$, Article 57-2 (SDS required)
 South Korea TCCA: Accident Precaution Chemical Yes
 Korea Exist.Chem.Inventory: KE-25911, >10% Toxic 97-1-246, Acc. Precaution Chem.
 LC_{LoWorl} hmn : 430 mg/kg
 LC50_{ihl} rat : NO₂ 674h ppm
 TRGS 905 (DE): R_F D

100 test strips

Chemical: *cellulose* CAS No.: 9004-34-6
 TSCA Inventory: listed California Proposition 65 List: not listed
 Exposure Routes: inhalation, skin and/or eye contact
 Target Organs: Eyes, skin, respiratory system
 Symptoms: irritation eyes, skin, mucous membrane
 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
 Korea Exist.Chem.Inventory: KE-05339
 LD50_{orl} rat : >5000 mg/kg
 LC50_{ihl} rat : >5800_{4h} mg/m³
 LD50_{drm} rbt : >2000 mg/kg

Chemical: *chemicals/mixture < 1%, no declaration necessary* CAS No.: -
 TSCA Inventory: all <1%
 Korea Exist.Chem.Inventory: listed

Chemical: *PVC foil (CAS 9002-86-2)* CAS No.: -
 TSCA Inventory: listed

SECTION 12: Ecological information

12.1 Toxicity

Following information is valid for pure substances.

25 mL Potassium-1

Chemical: *nitric acid* CAS No.: 7697-37-2
 LC50_{daphnia magna/48h} : 180 mg/L
 LC50_{fish/96h} : 72 mg/L
 Water hazard class (DE): 1 WGK No.: 0414
 Storage class (VCI): 8 B

100 test strips

Chemical: *cellulose* CAS No.: 9004-34-6
 Water hazard class (DE): nwg
 Storage class (VCI): 11

Chemical: *chemicals/mixture < 1%, no declaration necessary* CAS No.: -
 Water hazard class (DE): 1
 Storage class (VCI): 12-13

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

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- 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

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**
not necessary
- 14.6 Special precautions for user**
not necessary
- 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**
- 15.2 Chemical safety assessment**
not necessary for these small amounts

SECTION 16: Other Information

- 16.1 List of R, H and P phrases**
- 16.1.1 List of relevant R phrases
- 16.1.2 List of relevant H phrases
- 16.1.3 List of relevant P phrases
- 16.2 Training Advice**
Regular safety training.
- 16.3 Recommended Restriction on Use**
None
- 16.4 Further Information**

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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 September 2016
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

You find our current versions of MSDS in Internet:

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