

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

Printing date: 28.05.2014 Date of issue: 11.03.2014 Page: 1/9

1 Identification of the Substance/Mixture and of the Company

1.1 **Product identifier**

REF 91320

Product name QUANTOFIX Phosphate / 100

> 1 x 30 mL Phosphate-1 1 x 30 mL Phosphate-2 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**

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service. DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730

Missing subsections are not relevant for the risk assessment of the product and may be omitted programmatically.

2 **Hazard Identification**

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

Directive 1999/45/EC

Symbols



С R 34

CLP Directive 1272/2008/EC

GHS pictograms



Signal word **DANGER**

Hazard identification Hazard classes/categories

H314 Skin Corrosion 1B. Serious Damage to Eyes 1

2.2 **Hazard Description**

Possible Hazards from physicochemical Properties

Generally in the case of pH values are less than 2 or higher than 11.5 then it is corrosive.

Information pertaining to particular Risks to Human and possible Symptoms

Causes varying degrees of acid burns on the skin, to the eyes and to the mucous membranes and wounds which do not heal quickly depending on the concentration, temperature and the exposure time. Vapours especially which steam from hot liquids and mist can have a severe irritant effect upon the eyes and the respiratory organs.

Information pertaining to particular Risks to the Environment

--- Avoid contact of substance/mixture to environment. -

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Other Hazards

2.3 Other hazards: Description of the components

30 mL Phosphate-1

Directive 1999/45/EC

R 34

Symbols

10-1

CLP Directive 1272/2008/EC

GHS pictograms

GHS05

Signal word DANGER

Hazard identification Hazard classes/categories

H314 Skin Corrosion 1B. Serious Damage to Eyes 1

30 mL Phosphate-2

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

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

30 mL Phosphate-1

Chemical: nitric acid CAS No.: 7697-37-2

Concentration: 5 - 20 % Formula: HNO₃ •H₂ 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: R 34 acc. CLP (GHS): H314

30 mL Phosphate-2

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> Chemical: sodium acetate CAS No.: 127-09-3

Concentration: 10 - 32 % Formula: C₂ H₃ NaO₂

REACH Reg. No.: 01-2119485123-42-0007

EC No.: 204-823-8 RTECS: AJ4580000 TSCA Inventory: listed

acc. 1999/45/EC: acc. CLP (GHS): not necessary

100 test strips

Chemical: cellulose 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: chemicals/mixture < 1%, no declaration necessary CAS No .: -

Concentration: 0.1 - 1 %

acc. 1999/45/EC: acc. CLP (GHS): not necessary

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

Concentration: 95 - 100 % acc. 1999/45/EC: acc. CLP (GHS):

3.2 Remarks

List of R and H phrases: see chapter 16

4 First Aid Measures

4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice. Remove contaminated clothing. Show product package, packing insert and this material safety data sheet to the doctor.

4.1.1 After SKIN Contact

Remove dust with wetted tissue. Remove contaminated clothing immediately. Rinse the affected skin or mucous membrane thoroughly for min. 15 minutes under running water. (If possible) use soap. Avoid neutralisation. Then apply a loose bandage.

4.1.2

Rub dust with teardrops from eyes or: After contact with the eyes rinse thoroughly under running water with the eyelid wide open for min. 10 minutes with eye washing bottle, eye douche or running water (protect intact eye). Before (if possible) apply eye drops Proxymetacaine 0.5%, if the opening the eyelid convulsion is painful. Further treatment to be carried out by an eye specialist.

4.1.3 After INHALATION of Vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. If vomiting and if insensible place patient in recovery position and keep airways free. After inhalation of dust fresh air should be inhaled.

4.1.4

After oral intake lots of water with activated charcoal supplement should be drunk after it has been ingested. Do not induce vomiting under any circumstances. Do not make any efforts to neutralise it. Contact medical advice for possible consequences.

Indication of any immediate medical attention and special treatment needed 4.2

CORROSIVE DAMAGE: After SKIN CONTACT rinse with water for a long time. Efforts to neutralise the substance can frequently make matters worse. Apply glucocorticosteroides following inflammatory reactions. After EYE CONTACT rinse immediately with plenty of water for a long time. Eyelid convulsion measures. Name the corrosive chemical. Further treatment must to be carried out by an eye specialist. After INTAKE administer aluminium oxide drug suspensions. Administer a prophylaxis to counter pulmonary oedema following the INGESTION of corrosive aerosols. In the event of RESPIRATORY DISTREES ensure that the patient inhales oxygen.

5 **Firefighting Measures**

E-mail: info@mn-net.com

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

Formation of hazardous and caustic vapour-air mixtures possible. Danger for environment only in the event of a large-scale leakage or formation of hazardous substances.

5.3 Advice for firefighters

No, for listed product. Product package burns like paper or plastic. Spray any vapours released with water. Retent fire water. Use only acid-resistant safety equipment.

For great amount - if necessary - protective breathing apparatus which is independent of the ambient air (isolated equipment), and sealed protective clothing is necessary in the event of a large-scale formation of toxic substances.

5.4 Additional Information

Accidental Release Measures 6

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective gloves (see 8.2.2). Wear eye protection, respectively face protection. Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed

6.2 Methods and material for containment and cleaning up

Bind any escaping liquid with inert absorbent. And dispose in accordance to local regulations for the disposal of hazardous chemicals. Clean any contaminated equipment and floors with plenty of water. Collect small amounts of leaked liquid and flush with 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. Use inbreakable container for transport of glass bottles.

8 **Exposure Controls/Personal Protection**

8.1 Control parameters

30 mL Phosphate-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 1 ppm / 2,6 mg/m³ E/e respirable TRGS 900 (DE):

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_FD

Australia NICNAS: Canada CEPA 1999: DSL Yes not listed Japan CSCL/PRTR: not listed

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

South Korea TCCA: Accident Precaution Chemical Yes

TSCA Inventory: California Proposition 65 List: not listed listed TWA 2 ppm / 5 mg/m³ NIOSH: NIOSH STEL: 4 ppm / 10 mg/m³

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

mg/m³

30 mL Phosphate-2

Chemical: sodium acetate CAS No.: 127-09-3

TSCA Inventory: listed

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

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> Japan CSCL/PRTR: not listed

Japan PDSCL: not listed Japan ISHL: not listed not listed

South Korea TCCA: TSCA Inventory: listed California Proposition 65 List: not listed

NIOSH: not listed

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

The highest level of cleanliness must be maintained at the workplace.

8.2.1 **Respiratory Protection**

Only if additional recommendations in test instruction or packing insert.

8.2.2 **Hand Protection**

> Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansell or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.

8.2.3

Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection or face protection.

8.2.4

Recommended to avoid clothing damage, and to avoid contamination with these hazards.

8.2.5

Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

30 mL Phosphate-1

Color: colourless Odor: nitric Appearance: liquid

30 mL Phosphate-2

Color: colourless Odor: acetic Appearance: liquid

100 test strips

Color: colored Odor: odorless Appearance: solid

9.2 Other information

921 Safety relevant Basis Data

30 mL Phosphate-1

Specific gravity: 1,11 g/mL Solubility in water: 0-100 %

30 mL Phosphate-2

4-5 Solubility in water: 0-100 %

100 test strips

9.2.2 **Relevant Properties of Substance Group**

9.3 Additional Information

not necessary

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Stability and Reactivity

10.1 Conditions to avoid

If on label. When indicated in packing insert.

10.2 Incompatible materials

Avoid contact with concentrated acids and oxidizing agents. Avoid contact with strong acids or alkalines.

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.

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.

30 mL Phosphate-1

Chemical: nitric acid CAS No.: 7697-37-2

LC Loworl hmn: 430 mg/kg LC50_{ihl rat}: NO₂ 67_{4h} ppm

30 mL Phosphate-2

Chemical: sodium acetate CAS No.: 127-09-3

LD50_{orl rat}: 3530 mg/kg LD50_{drm rbt}: > 10 g/kg

100 test strips

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

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

Ecological information

12.1 **Toxicity**

Following information is valid for pure substances.

30 mL Phosphate-1

Chemical: nitric acid CAS No.: 7697-37-2

LC50daphnia magna/48h: 180 mg/L LC50_{fish/96h}: 72 mg/L

WGK (DE): WGK No.: 0414

Storage class (VCI): 8 B

30 mL Phosphate-2

sodium acetate CAS No.: 127-09-3 Chemical:

WGK (DE): Storage class (VCI): 12-13

100 test strips

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

WGK (DE): nwg Storage class (VCI):

Chemical: chemicals/mixture < 1%, no declaration necessary CAS No .: -

WGK (DE):

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

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Printing date: 28.05.2014 Date of issue: 11.03.2014 Page: 7/9

13 **Disposal Considerations**

Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (waste code number 16 05 06).

13.1 Waste treatment methods

Empty containers of corrosive reagents prior to disposal, rinse with water.

Transport Information

14.1 UN No.: 3316 14.2 Proper shipping name: Chemical Kit

14.4 Packing group: 14.3 Class:

Road transport

Classification code: M11 Tunnel restriction code:

Limited Quantity: LQ 0 (acc. ADR 3.3.1/251: see LQ in Alternative Transport Labelling)

Air transport

PAX: 960 max. weight PAX: 10 KG CAO: 960 max. weight CAO: 10 KG

Maritime transport

EmS: F-A, S-P Storage category: A

Alternative Transport Labelling follows:

Class 8 II, excepted quantities (≤30 mL/∑≤500 mL) = ADR/ IATA E2

14.1 UN No.: 3264 14.2 Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (nitric acid solution)

Ε

14.3 Class: 14.4 Packing group: II

Road transport

Classification code: C₁

Limited Quantity: LQ 22 Tunnel restriction code:

Excepted Quantity: F 2

Air transport

PAX:

851 max. weight PAX: 1 L CAO. 855 max. weight CAO: 30 I

Maritime transport

EmS: F-A, S-B Storage category: B

Regulatory Information

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

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung -GefStoffV), revised on November 2010, according to Directive 98/24/EC

TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products, updated October 2011

Announcement BekGS 220 (DE), Safety Data Sheet, June 2013

According GHS inner packages must be only labelled with symbol(s) and product identificator.

30 mL Phosphate-1

Directive 1999/45/EC Symbols:



С

R 34

Causes burns

Do not breathe vapour. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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> CLP Directive 1272/2008/EC GHS pictograms:



Signal word: DANGER

H314

Causes severe skin burns and eye damage.

P260D, P280sh, P301+330+331, P303+361+353, P304+340, P305+351+338, P501

Do not breathe vapours. Wear protective gloves/eye protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Dispose of contents/container to regulated waste treatment.

30 mL Phosphate-2

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: -

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

Causes burns.

16.1.2 List of relevant H phrases

Causes severe skin burns and eye damage.

16.2 **Training Advice**

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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Printing date: 28.05.2014 Date of issue: 11.03.2014 Page: 9/9

Recommended Restriction on Use 16.3

Only for professional user.

Look about employee restrictions for young people (f. ex. 94/33/EC or DE § 22 JArbSchG)!

Look about employee restrictions for pregnant women and nursing women (f.ex. 92/85/EEC or DE §§ 4 und 5 MuSchRiV)!

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

Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances KÜHN. BIRETT

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

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