

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

Printing date: 28.05.2014 Date of issue: 24.04.2014 Page: 1/9

1 Identification of the Substance/Mixture and of the Company

1.1 **Product identifier**

REF 91324

Product name QUANTOFIX Calcium / 60

> 1 x 6 g Calcium-1 1 x 30 mL Calcium-2 60 x 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

R



R 35

CLP Directive 1272/2008/EC

GHS pictograms







Signal word **DANGER**

Hazard identification	Hazard classes/categories
H272	Ox. Lig. 2
H314	Skin Corrosion 1A. Serious Damage to Eyes
H315	Skin Irrit. 2
H318	Eye Dam. 1
H335	STOT SE 3

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. In the case of pH values are less than 5 or higher than 9 then it is irritant.

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.

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Information pertaining to particular Risks to the Environment

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

Other Hazards

2.3 Other hazards: Description of the components

6 g Calcium-1

Directive 1999/45/EC

R 41

Symbols

CLP Directive 1272/2008/EC

GHS pictograms







DANGER Signal word

Hazard identification	Hazard classes/categories
H272	Ox. Liq. 2
L1215	Ckin Irrit 2

Skin Irrit. 2 H318 Eye Dam. 1 STOT SE 3 H335

30 mL Calcium-2

Directive 1999/45/EC

R 35

Symbols



С

CLP Directive 1272/2008/EC

GHS pictograms



GHS05

Signal word **DANGER**

Hazard identification Hazard classes/categories

H314 Skin Corrosion 1A. Serious Damage to Eyes 1

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 do not need labelling as hazardous Signal word

No hazard class

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3 Composition/Information on Ingredients

3.1 **Substances or 3.2 Mixtures**

6 g Calcium-1

Chemical: CAS No.: 124-43-6 hydrogen peroxide urea

80 - 100 % Concentration: CH₄ N₂ O•H₂ O₂ Formula: Pseudonym: Percarbamide 204-701-4 EC No.:

RTECS: YT4860000 MFCD: 00013119

TSCA Inventory listed

acc. 1999/45/EC: R 37/38-41 acc. CLP (GHS): H272, H315, H318, H335

30 mL Calcium-2

Chemical: sodium hydroxide solution CAS No.: 1310-73-2

Concentration: 20 - 55 % Formula: NaOH•H2O

Pseudonym: soda lye

REACH Reg. No.: 01-2119457892-27-xxxx

215-185-5 EC No.: Indice No.: 011-002-00-6

RTECS: WB4900000 TSCA Inventory: listed

acc. 1999/45/EC: R 35 acc. CLP (GHS): H314

Test strips

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

1 - 10 % Concentration: Formula: (C₆ H₁₀ O₅)_n REACH Reg. No.: exempt, Annex IV 232-674-9 EC No.: 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. CLP (GHS):

not necessary

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

Concentration: 95 - 100 %

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

3.2 Remarks

List of R and H phrases: see chapter 16

acc. 1999/45/EC:

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.

411 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.

After EYE Contact 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 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

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> 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.

4.2 Indication of any immediate medical attention and special treatment needed

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 INTAKÉ 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.

Firefighting Measures 5

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

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**

6 a Calcium-1

CAS No.: 124-43-6 Chemical: hydrogen peroxide urea

H₂ 0₂ 1 ppm / 1,4 mg/m³ E/e respirable TRGS 900 (DE):

H₂ O₂ 1 ppm / 1,4 mg/m³ SUVA(CH) MAK value:

TRGS 905 (DE): K4, R_F C TSCA Inventory: listed

30 mL Calcium-2

CAS No.: 1310-73-2 Chemical: sodium hydroxide solution

TRGS 900 (DE): (2 E) mg/m³ È/e respirable

Short-term exposure factor: =1=

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

SUVA(CH) MAK value: 2 e mg/m³

Australia NICNAS: not listed Canada CEPA 1999: DSL Yes

Japan CSCL/PRTR: not listed

Japan PDSCL not listed Japan ISHL: Article 57-2 (SDS required)

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

NIOSH: 2 mg/m³ OSHA: TWA 2 mg/m³

Test strips

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

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: Japan PDSCL: not listed Japan ISHL: not listed not listed South Korea TCCA: not listed

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 Skin Protection

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

8.2.5 Personal Hygiene

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

6 q Calcium-1

Odor: odorless Color: colourless Appearance: powder (solid)

30 mL Calcium-2

Color: colourless Odor: odorless Appearance: liquid

Test strips

Color: colored Odor: odorless Appearance: solid

9.2 Other information

9.2.1 Safety relevant Basis Data

6 q Calcium-1 pH: Specific gravity: 1,39 sol. Solubility in water: 0-100 % 75-85 instable °C Melting point:

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30 mL Calcium-2

pH: 14
Specific gravity: 1,35 g/mL
Solubility in water: 0-100 %

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

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.

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.

6 g Calcium-1

Chemical: hydrogen peroxide urea CAS No.: 124-43-6

LD50_{orl rat}: >2000 mg/kg

30 mL Calcium-2

Chemical: sodium hydroxide solution CAS No.: 1310-73-2

LD50_{orl rat}: 500_{100%} mg/kg LD50_{orl mus}: 40 mg/kg

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

12 Ecological information

12.1 Toxicity

Following information is valid for pure substances.

6 g Calcium-1

Chemical: hydrogen peroxide urea CAS No.: 124-43-6

WGK (DE): 1 WGK No.: (0288_{H2O2})

Storage class (VCI): 5.1 B

30 mL Calcium-2

Chemical: sodium hydroxide solution CAS No.: 1310-73-2

LC50leuciscus idus/96h: 35-189 mg/L LC50fish/96h: 45.4 mg/L EC50daphnia/48h: >100 mg/L

WGK (DE): 1 WGK No.: 0142

Storage class (VCI): 8 E

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Test strips

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

WGK (DE): nwg Storage class (VCI): 11

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

WGK (DE):

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

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.

14 Transport Information

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

14.3 Class: 14.4 Packing group:

Road transport

Classification code: M11 Tunnel restriction code: Ε

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: max. weight CAO: 10 KG

Maritime transport

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

Alternative Transport Labelling follows:

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

14.1 UN No.: 3266 14.2 Proper shipping name: Corrosive liquid, basic, inorganic, n.o.s. (sodium hydroxide solution)

14.3 Class: 14.4 Packing group:

Road transport

Classification code: C5

Limited Quantity: LQ22 Tunnel restriction code: F

Excepted Quantity: F 2

Air transport

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

Maritime transport

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

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 1999/45/EC small amounts of harmful and highly flammable preparations/mixtures have partly/completely exemption from labelling (no symbols F, O, Xn, Xi, N and no R and S phrases are necessary) until 25-125 mL|g

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

Harmful chemicals/mixtures with signal word: WARNING and highly flammable chemicals/mixtures must not be labelled with H and P phrases until 125 mL or 125 g.

Oxidizing mixtures with signal word: DANGER and H272 must not be labelled with H and P phrases until 125 mL

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6 g Calcium-1

Directive 1999/45/EC Symbols:



Xi R 41

Risk of serious damage to eyes.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eye/face protection.

CLP Directive 1272/2008/EC GHS pictograms:







Signal word: DANGER

H318

Causes serious eye damage.

P280sh. P305+351+338

Wear protective gloves/eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

30 mL Calcium-2

Directive 1999/45/EC Symbols:



С

R 35

Causes severe burns.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

CLP Directive 1272/2008/EC GHS pictograms:



GHS05

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

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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

R35 Causes severe burns

R37/38 Irritating to respiratory system and skin.
R41 Risk of serious damage to eyes.

16.1.2 List of relevant H phrases

H272 May intensify fire; oxidizer.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

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.

16.3 Recommended Restriction on Use

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/EÉC 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

KÜHN, BIRETT Merkblätter 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

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