

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

Printing date: 05.11.2015 Date of issue: 28.10.2015 Page: 1/9

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

#### **Product identifier**

REF 91310

QUANTOFIX Zinc / 100 Product name

> 1 x 100 test strips 2 x 30 mL Zn<sup>2+</sup> -1

#### 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

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

## **SECTION 2: Hazard identification**

#### 2.0 Classification of the complete product

Directive 1999/45/EC

Symbols



R 35

CLP Directive 1272/2008/EC

GHS pictograms



GHS05

Signal word **DANGER** 

Hazard identification Hazard classes/categories

H290 Metal Corrosion cat. 1

H314 Skin Corrosion 1A. Serious Damage to Eyes 1

#### 2.1 Classification of the substance or mixture

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

www.mn-net.com



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany Germany Switzerland: France:

E-mail: sales-ch@mn-net.com

and international: +49 24 21 969-0 Tel.: +49 24 21 969-199 Fax: E-mail: info@mn-net.com

**MACHEREY-NAGEL AG** Tel.: +41 62 388 55 00 +41 62 388 55 05 Fax:

**MACHEREY-NAGEL EURL** Tel.: +33 388 68 22 68 +33 388 51 76 88 Fax: E-mail: sales-fr@mn-net.com

**MACHEREY-NAGEL Inc.** Tel.: +1 484 821 0984

USA:

+1 484 821 1272 Fax: E-mail: sales-us@mn-net.com

Version: 1.0



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

Printing date: 05.11.2015 Date of issue: 28.10.2015 Page: 2/9

Signal word

No hazard class

30 mL Zn2+ -1

Directive 1999/45/EC

Symbols

R 35

CLP Directive 1272/2008/EC

GHS pictograms

GHS05

Signal word **DANGER** 

Hazard identification Hazard classes/categories

H290 Metal Corrosion cat. 1

H314 Skin Corrosion 1A. Serious Damage to Eyes 1

#### 2.2 Label elements

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

### 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: -

#### 30 mL Zn2+ -1

Directive 1999/45/EC Symbols:

С

R 35

Causes severe burns.

S 26-37/39-45

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

www.mn-net.com



 $\textbf{MACHEREY-NAGEL GmbH \& Co. KG} \cdot \text{Neumann-Neander-Str. 6-8} \cdot 52355 \ \text{D\"uren} \cdot \text{Germany}$ Germany Switzerland: and international: **MACHEREY-NAGEL AG** 

Tel.: +41 62 388 55 00 +41 62 388 55 05 Fax: E-mail: sales-ch@mn-net.com France: **MACHEREY-NAGEL EURL** +33 388 68 22 68 Tel.: +33 388 51 76 88 Fax:

E-mail: sales-fr@mn-net.com

USA: **MACHEREY-NAGEL Inc.** Tel.:

+1 484 821 0984 +1 484 821 1272 Fax: E-mail: sales-us@mn-net.com



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

Printing date: 05.11.2015 Date of issue: 28.10.2015 Page: 3/9

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 treatment

#### 2.3 Other hazards

#### 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. --

PBT: not applicable not applicable vPvB:

#### Other Hazards

-- Hazard H290 "May be corrosive to metals." has only relevance for longer transportation time of larger amounts. The labelling GHS05 would be creating an "OVERLABELLING".

### SECTION 3: Composition/Information on Ingredients

#### 3.1 Substances or 3.2 Mixtures

100 test strips

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

Concentration: 1 - 10 % (C<sub>6</sub> H<sub>10</sub> O<sub>5</sub> )<sub>n</sub> Formula: REACH Reg. No.: exempt, Annex IV EC No.: 232-674-9 RTECS: FJ5691460 TSCA Inventory: listed KE-05339 KE No.:

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

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

Concentration: 0,1 - 1 % KE No .: listed

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

Chemical: PVC foil (CAS 9002-86-2) Concentration: 95 - 100 %

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

30 mL Zn2+ -1

www.mn-net.com



Version: 1.0

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany Switzerland: Germany France:

and international: Tel.: +49 24 21 969-0 +49 24 21 969-199 Fax: E-mail: info@mn-net.com

**MACHEREY-NAGEL AG** Tel.: +41 62 388 55 00 +41 62 388 55 05 Fax:

**MACHEREY-NAGEL EURL** +33 388 68 22 68

USA: **MACHEREY-NAGEL Inc.** +1 484 821 0984 Tel.:

CAS No .: -

Tel.: +33 388 51 76 88 +1 484 821 1272 Fax: Fax: E-mail: sales-ch@mn-net.com E-mail: sales-fr@mn-net.com E-mail: sales-us@mn-net.com



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

Printing date: 05.11.2015 Date of issue: 28.10.2015 Page: 4/9

Chemical: sodium hydroxide solution

CAS No.: 1310-73-2

Concentration: 20 - 55 % Formula: NaOH•H<sub>2</sub> O

Pseudonym: soda lye

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

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

RTECS: WB4900000 TSCA Inventory: listed KE No.: KE-31487

acc. 1999/45/EC: R 35 acc. CLP (GHS): H290, H314

#### 3.3 Remarks

List of R and H phrases: see chapter 16

### **SECTION 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 After EYE Contact

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

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 Most important symptoms and effects, both acute and delayed

\_\_\_

#### 4.3 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 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.

## **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.

### 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

----

www.mn-net.com



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6–8 · 52355 Düren · Germany Germany Switzerland: France:

Tel.: +49 24 21 969-0 Fax: +49 24 21 969-199 E-mail: info@mn-net.com

and international:

MACHEREY-NAGEL AG
Tel.: +41 62 388 55 00
Fax: +41 62 388 55 05

E-mail: sales-ch@mn-net.com

MACHEREY-NAGEL EURL
Tel.: +33 388 68 22 68
Fax: +33 388 51 76 88
E-mail: sales-fr@mn-net.com

USA: MACHEREY-NAGEL Inc.

Tel.: +1 484 821 0984 Fax: +1 484 821 1272 E-mail: sales-us@mn-net.com

Version: 1.0



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

Printing date: 05.11.2015 Date of issue: 28.10.2015 Page: 5/9

#### SECTION 6: Accidental release measures

### 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 Environmental precautions

not necessary

### 6.3 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.

#### 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 (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.

### 7.3 Specific end use(s)

## **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

100 test strips

Chemical: cellulose

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

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

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

CAS No.: -

30 mL Zn<sup>2+</sup> -1

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

DNEL:  $1_{inh} mg/m^3$ DNEL = Derived No-Effect Level (for workers) TRGS 900 (DE):  $(2 E) mg/m^3$ E/e respirable

Short-term exposure factor: (=1=, Y)

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
NIOSH: 2 mg/m³
OSHA: TWA 2 mg/m³

### 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.

www.mn-net.com



Version: 1.0

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6–8 · 52355 Düren · Germany Germany Switzerland: France:

 and international:
 MACHI

 Tel.:
 +49 24 21 969-0
 Tel.:

 Fax:
 +49 24 21 969-199
 Fax:

E-mail: info@mn-net.com

MACHEREY-NAGEL AG
Tel.: +41 62 388 55 00
Fax: +41 62 388 55 05
E-mail: sales-ch@mn-net.com

MACHEREY-NAGEL EURL
Tel.: +33 388 68 22 68
Fax: +33 388 51 76 88
E-mail: sales-fr@mn-net.com

MACHEREY-NAGEL Inc. Tel.: +1 484 821 0984

USA:

CAS No.: 9004-34-6

Tel.: +1 484 821 0984 Fax: +1 484 821 1272 n E-mail: sales-us@mn-net.com



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

Printing date: 05.11.2015 Date of issue: 28.10.2015 Page: 6/9

8.2.3 **Eye Protection** 

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.

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

100 test strips

Appearance: solid Color: colored Odor: odorless

30 mL Zn2+ -1

Appearance: liquid Color: colourless Odor: odorless

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

9.2 Other information

**Relevant Properties of Substance Group** 

9.2.1

## **SECTION 10: Stability and reactivity**

10.1 Reactivity

No data available

10.2 Chemical stability

No known instability.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Not necessary. Only if on label. Or when indicated in packing insert.

10.5 Incompatible materials

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

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.

#### 100 test strips

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

California Proposition 65 List: not listed TSCA Inventory: 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<sub>orl rat</sub>: >5000 mg/kg LC50<sub>ihl rat</sub>: >5800<sub>4h</sub> mg/m<sup>3</sup> LD50<sub>drm rbt</sub>: >2000 mg/kg

www.mn-net.com



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany Germany Switzerland: France:

and international: Tel.: +49 24 21 969-0 +49 24 21 969-199 Fax:

**MACHEREY-NAGEL AG** Tel.: +41 62 388 55 00 +41 62 388 55 05 Fax:

**MACHEREY-NAGEL EURL** Tel.: +33 388 68 22 68 +33 388 51 76 88 Fax: E-mail: sales-fr@mn-net.com

+1 484 821 0984 Tel.: +1 484 821 1272 Fax: E-mail: sales-us@mn-net.com

**MACHEREY-NAGEL Inc.** 

USA:

E-mail: info@mn-net.com E-mail: sales-ch@mn-net.com Version: 1.0



CAS No.: -

# **Material Safety Data Sheet**

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

Printing date: 05.11.2015 Date of issue: 28.10.2015 Page: 7/9

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

Korea Exist.Chem.Inventory: listed

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

30 mL Zn2+ -1

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

TSCA Inventory: California Proposition 65 List: not listed listed

Exposure Routes: inhalation, ingestion, skin and/or eye contact Eyes, skin, respiratory system Target Organs:

irritation eyes, skin, mucous membrane; pneumonitis; eye, skin burns; temporary loss of hair not listed Canada CEPA 1999: DSL Yes Symptoms:

Australia NICNAS: Japan CSCL/PRTR: not listed

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

South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-31487 LD50<sub>orl rat</sub>: 500<sub>100%</sub> mg/kg LD50<sub>orl mus</sub>: 40 mg/kg

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Following information is valid for pure substances.

100 test strips

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

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

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

WGK (DE):

12-13 Storage class (VCI):

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

30 mL Zn2+ -1

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

Avoid contact of substance/mixture to environment. LC50<sub>leuciscus idus/96h</sub>: 35-189 mg/L LC50fish/96h: 45.4 mg/L >100 mg/L EC50daphnia/48h:

WGK (DE): ЙGK No.: 142

Storage class (VCI): 8 B

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no data available

www.mn-net.com



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany Germany Switzerland: France:

and international: +49 24 21 969-0 Tel.: +49 24 21 969-199 Fax:

**MACHEREY-NAGEL AG** +41 62 388 55 00 Tel.: +41 62 388 55 05 Fax:

MACHEREY-NAGEL EURL +33 388 68 22 68 Tel.: +33 388 51 76 88

**MACHEREY-NAGEL Inc.** +1 484 821 0984 Tel.: +1 484 821 1272 Fax:

USA:

Fax: E-mail: sales-ch@mn-net.com E-mail: sales-fr@mn-net.com E-mail: sales-us@mn-net.com



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

Printing date: 05.11.2015 Date of issue: 28.10.2015 Page: 8/9

### **SECTION 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.

## **SECTION 14: Transport information**

14.1. UN number: 3316 14.2. UN proper shipping name: Chemical Kit

14.3. Class: 14.4. Packing group:

Road transport

Classification code: M11 Tunnel restriction code:

Limited Quantity: 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:

Maritime transport

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

#### Alternative transport labelling follows:

UN No.: (see below) class 8 II, Excepted Quantities (≤30 mL/∑≤500 mL) = ADR/ IATA E2

or

14.1 UN number: 3266 14.2 UN proper shipping name: Corrosive liquid, basic, inorganic, n.o.s. (sodium hydroxide solution)

14.4 Packing group: 14.3 Class:

Road transport

Classification code: C5

Limited Quantity: 1 L Tunnel restriction code: Ε

**Excepted Quantity:** F 2

Air transport

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

Maritime transport

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

#### 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

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

#### 15.2 Chemical safety assessment

not necessary for these small amounts

### **SECTION 16: Other Information**

#### 16.1 List of R and H phrases

16.1.1 List of relevant R phrases

Causes severe burns.

16.1.2 List of relevant H phrases

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

www.mn-net.com



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany Switzerland: Germany France:

and international: Tel.: +49 24 21 969-0 +49 24 21 969-199 Fax:

E-mail: info@mn-net.com

**MACHEREY-NAGEL AG** Tel.: +41 62 388 55 00 +41 62 388 55 05 Fax:

**MACHEREY-NAGEL EURL** +33 388 68 22 68 +33 388 51 76 88

**MACHEREY-NAGEL Inc.** +1 484 821 0984 Tel.: +1 484 821 1272

USA:

Tel.: Fax: Fax: E-mail: sales-ch@mn-net.com E-mail: sales-fr@mn-net.com E-mail: sales-us@mn-net.com

Version: 1.0

## MACHEREY-NAGEL



# **Material Safety Data Sheet**

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

Printing date: 05.11.2015 Date of issue: 28.10.2015 Page: 9/9

### 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/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.

MACHEREY-NAGEL GmbH & Co. KG makes NO REPRESENTATIONS or WARRANTIES, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly MACHEREY-NAGEL GmbH & Co. KG will not be responsible for damages resulting from use of or reliance upon this information. See terms and conditions at the end of our price lists for additional information.

#### 16.5 Sources of Key Data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 487/2013/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress TRGS 900, German engineering rules governing limits in air at work, updated February 2015 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: 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

www.mn-net.com



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6–8 · 52355 Düren · Germany Germany Switzerland: France:

Tel.: +49 24 21 969-0 Fax: +49 24 21 969-199 E-mail: info@mn-net.com

and international:

MACHEREY-NAGEL AG
Tel.: +41 62 388 55 00
Fax: +41 62 388 55 05

E-mail: sales-ch@mn-net.com

MACHEREY-NAGEL EURL
Tel.: +33 388 68 22 68
Fax: +33 388 51 76 88
E-mail: sales-fr@mn-net.com

USA: MACHEREY-NAGEL Inc. Tel.: +1 484 821 0984

Tel.: +1 484 821 0984 Fax: +1 484 821 1272 E-mail: sales-us@mn-net.com