

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

**QUANTOFIX** Cyanide Page: 1/10

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

#### 1.1 **Product identifier**

REF 91318

Product name **QUANTOFIX** Cyanide

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.

1 x 100 test strips 1 x 7 g CN<sup>-</sup>-1 1 x 25 mL CN--2

#### 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



### CLP Directive 1272/2008/EC

GHS pictograms







GHS02

GHS07

GHS08

**DANGER** Signal word

Hazard identification	Hazard classes/categories
H226	Flammable Liquid cat. 3
H315	Skin Irritation cat. 2
H319	Eye Irritation cat. 2
H332	Acute Tox. 4 inh.
H334	Resp Sens 1A/1B

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#### 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

Signal word

No hazard class

### 7 g CN--1

Directive 1999/45/EC

Symbols do not need labelling as hazardous

CLP Directive 1272/2008/EC

do not need labelling as hazardous GHS pictograms

Signal word

No hazard class

#### 25 mL CN- -2

Directive 1999/45/EC

R 42 Symbols



### CLP Directive 1272/2008/EC

GHS pictograms







GHS07

**GHS08** 

Signal word **DANGER** 

Hazard identification	Hazard classes/categories
H226	Flammable Liquid cat. 3
H315	Skin Irritation cat. 2
H319	Eye Irritation cat. 2
H332	Acute Tox. 4 inh.
H334	Resp. Sens. 1A/1B

#### 2.2 Label elements

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. This labelling exemption is NOT valid for sensibilizing mixtures.

According CLP (GHS) inner packages must be only labelled with symbol(s) and product identificator (EU 1272/2008 Annex I - 1.5.1.2). Harmful chemicals/mixtures with signal word: WARNING and highly flammable chemicals/mixtures must not be labelled with H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2). This labelling exemption is NOT valid for sensibilizing substances.

#### 100 test strips

Directive 1999/45/EC

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Symbols:

S 22

Do not breathe dust.

CLP Directive 1272/2008/EC

GHS pictograms:

do not need labelling as hazardous

Signal word: -

### 7 g CN--1

Directive 1999/45/EC

Symbols:

CLP Directive 1272/2008/EC

GHS pictograms:

do not need labelling as hazardous

Signal word: -

## 25 mL CN- -2

Directive 1999/45/EC

Symbols:



Xn

May cause sensitization by inhalation.

S 26-36/37/39

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

CLP Directive 1272/2008/EC

GHS pictograms:







GHS02

GHS07

Signal word: DANGER

H334

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

P261sh, P342+311

Avoid breathing dust/vapours. If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...

#### 2.3 Other hazards

#### Possible Hazards from physicochemical Properties

In the case of pH values are less than 5 or higher than 9 then it is irritant. Flammable properties. Vapour forms explosive mixtures with air.

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Information pertaining to particular Risks to Human and possible Symptoms

Cause after impairments of health when ingested in small quantities. May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Information pertaining to particular Risks to the Environment

PBT: not applicable vPvB: not applicable

Other Hazards

Contains an odor intensive reagent. ---

## **SECTION 3: Composition/Information on Ingredients**

#### 3.1 Substances or 3.2 Mixtures

100 test strips

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

 $\begin{tabular}{llll} Concentration: & 1 - <10 \ \% \\ Formula: & (C_6 \ H_{10} \ O_5 \ )_n \\ REACH \ Reg. \ No.: & exempt, \ Annex \ IV \\ EC \ No.: & 232-674-9 \\ RTECS: & FJ5691460 \\ TSCA \ Inventory: & listed \\ KE \ No.: & KE-05339 \\ \end{tabular}$ 

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

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

Concentration: 0,1 - <1 % All <1% Issted

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

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

Concentration: 95 - <100 % Issted

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

7 g CN--1

Chemical: phosphates (buffer salts) CAS No.: -

Concentration: 75 - <100 %
Formula: Me<sub>1-3</sub> H<sub>2-0</sub> PO<sub>4</sub>
TSCA Inventory: all listed

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

25 mL CN- -2

Chemical: pyridine CAS No.: 110-86-1

REACH Reg. No.: 01-2119493105-40-xxxx

EC No.: 203-809-9 Indice No.: 613-002-00-7 RTECS: UR8400000 MFCD: 00011732

TSCA Inventory: listed KE No.: KE-29929

acc. 1999/45/EC: R 10-20 acc. CLP (GHS): H226, H315, H319, H332

Chemical: chloramine T CAS No.: 127-65-1

Concentration: 1 - <3 %

Formula: C<sub>7</sub> H<sub>7</sub> ClNNaO<sub>2</sub> S

Pseudonym: tosylchloramide sodium, Benzenesulfonamide, N-chloro-4-methyl-benzenesulfonamide, sodium salt

EC No.: 204-854-7 Indice No.: 616-010-00-9 RTECS: XT5616800 MFCD: 00000522

RTECS: XT5616800 MFCD: 0000052 TSCA Inventory: listed

KE No.: 2000-3-1539

acc. 1999/45/EC: R 42 acc. CLP (GHS): H315, H319, H334

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#### 3.3 Remarks

List of R, H and P phrases: see section 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. Take to a doctor, in a raised position if there are breathing difficulties.

#### 4.1.1 After SKIN Contact

Remove dust with wetted tissue. Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use soap.

#### 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 with eye washing bottle, eye douche or running water (protect intact eye).

#### 4.1.3 After INHALATION of Vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. Administer a Dexamethasone spray as soon as possible. Ensure quiet, warmth, and provide resuscitation if necessary. In the event of respiratory distress ensure that the patient inhales oxygen. Secure the breathing, heart and circulatory function. After inhalation of dust fresh air should be inhaled.

#### 4.1.4 After ORAL Intake

After oral intake lots of water should be drunk after it has been ingested.

#### 4.2 Most important symptoms and effects, both acute and delayed

Chronic Effects: May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Avoid inhalation of dust. ---

#### 4.3 Indication of any immediate medical attention and special treatment needed

Inform patient respectively further measures and the possibility of long-term damages. ---

## **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

WARNING: Flammable (GHS regulation). May form explosive vapour-air mixtures. Formation of hazardous and caustic vapour-air mixtures possible.

### 5.3 Advice for firefighters

No, for listed product. Product package burns like paper or plastic.

#### 5.4 Additional Information

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### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

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

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## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product. Use only in well-ventilated working areas.

#### 7.2 Conditions for safe storage, including any incompatibilities

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

Storage class (VCI): Water hazard class (DE):

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**

100 test strips

Chemical. cellulose

CAS No.: 9004-34-6 Staub 1.25 A / 4 E mg/m3

TRGS 900 (DE): E/e respirable

SUVA(CH) MAK value: 3 a ppm

NIOSH: TWA 10 (total) / 5 (resp) mg/m<sup>3</sup> OSHA: TWA 15 (total) / 5 (resp) mg/m<sup>3</sup>

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

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

7 g CN--1

Chemical: phosphates (buffer salts) CAS No .: -

25 mL CN--2

pyridine CAS No.: 110-86-1 Chemical:

FU value: 5 ppm / 15 mg/m<sup>3</sup> 5 ppm / 15 mg/m<sup>3</sup> E/e respirable TRGS 900 (DE):

Short-term exposure factor: 2 (II)

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

SUVA(CH) MAK value: 5 ppm / 15 mg/m<sup>3</sup> TWA 5 ppm / 15 mg/m<sup>3</sup> TWA 5 ppm / 15 mg/m<sup>3</sup> NIOSH: OSHA:

Chemical: chloramine T CAS No.: 127-65-1

NIOSH: not listed OSHA: not listed

#### 8.2 Exposure controls

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

#### **Respiratory Protection** 8.2.1

Use for open access of these substances for example a protection filter, class A/AX. No additional recommendations.

#### 8.2.2

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.

#### 8.2.4 Skin Protection

Recommended to avoid contamination with these hazards.

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### 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.

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

### 9.1 Information on basic physical and chemical properties

100 test strips

Appearance: solid Color: colored Odor: odorless

7 g CN--1

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

pH: 8-9 Solubility in water: 0-40 %

25 mL CN- -2

Appearance: liquid Color: colourless Odor: like pyridine

pH: 8-9
Specific gravity: 0,99 g/cm³
Solubility in water: 0-100 %

### 9.2 Other information

**Relevant Properties of Substance Group** 

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### 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. ---

### 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

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<sub>orl rat</sub>: >5000 mg/kg
LC50<sub>ihl rat</sub>: >5800<sub>4h</sub> mg/m³

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LD50<sub>drm rbt</sub>: >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

7 g CN--1

Chemical: phosphates (buffer salts) CAS No.: -

TSCA Inventory: all listed
Korea Exist Chem.Inventory: listed
LD50<sub>orl rat</sub>: > 2000 mg/kg

25 mL CN- -2

Chemical: pyridine CAS No.: 110-86-1

TSCA Inventory: listed California Proposition 65 List: listed cancer Exposure Routes: inhalation, skin absorption, ingestion, skin and/or eye contact

Target Organs: Eyes, skin, central nervous system, liver, kidneys, gastrointestinal tract,

Symptoms: irritation eyes; headache, anxiety, dizziness, insomnia; nausea, anorexia; dermatitis; liver, kidney

damage
Japan CSCL/PRTR: PRTR: ≥1,0% class I

Korea Exist.Chem.Inventory: KE-29929
LD50<sub>orl rat</sub>: 891 mg/kg
LC\_Lowihl rat: 40004h mg/m³
LC\_Loworl gpg: 4000 mg/kg
LC\_Loworl hmn: 500 mg/kg
LC50<sub>ihl rat</sub>: 28500<sub>1h</sub> mg/m³
LD50<sub>drm rbt</sub>: 1121 mg/kg

LD50<sub>drm rbt</sub>: 1121 mg/kg
Acute Effects: Cause after skin contact, impairments of health when ingested in small quantities.

TRGS 905 (DE): carc. 3B<sub>DFG</sub>

Chemical: chloramine T CAS No.: 127-65-1

TSCA Inventory: listed California Proposition 65 List: not listed Australia NICNAS: not listed Canada CEPA 1999: DSL Yes Japan CSCL/PRTR: not listed Japan ISHL: not listed

South Korea TCCA: not listed Korea Exist Chem.Inventory: 2000-3-1539 LD50<sub>orl rat</sub>: ~1000 mg/kg

Acute Effects: Cause after impairments of health when ingested in small quantities.

Chronic Effects: May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma

symptoms or breathing difficulties if inhaled.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Following information is valid for pure substances.

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

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

7 g CN--1

Chemical: phosphates (buffer salts) CAS No.: -

Water hazard class (DE): 1 Storage class (VCI): 13

25 mL CN<sup>-</sup> -2

Chemical: pyridine CAS No.: 110-86-1

LC50f<sub>ish/96h</sub>: 4.6 mg/L

EC50<sub>daphnia/48h</sub>: 240<sub>24h</sub> mg/L

IC50<sub>scenedesmus quadricauda/72h</sub>: IC5/7d: 120 mg/L

EC10<sub>pseudomonas putita/16h</sub>: EC5/16h: 340 mg/L

Water hazard class (DE): 2 WGK No.: 0179

Dispersion coefficient<sub>(octanol-water)</sub>: 0.65 Storage class (VCI): 3

Chemical: chloramine T CAS No.: 127-65-1

Water hazard class (DE): 2 WGK No.: 0640

Storage class (VCI): 8 A

### 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**

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

### **SECTION 14: Transport information**

14.1 - 14.4: No dangerous goods according the transport regulations

### 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

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### 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

R10 Flammable.

R20 Harmful by inhalation.

R42 May cause sensitization by inhalation.

#### 16.1.2 List of relevant H phrases

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### 16.1.3 List of relevant P phrases

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P261sh Avoid breathing dust/vapours.
P280sh Wear protective gloves/eye protection.

P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342+311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...

### 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.

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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

TRGS 907, German engineering rules governing listing of substances and causes of sensitizations, updated November 2011

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

www.mn-net.com

US:



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