

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

QUANTOFIX Chlorine Page: 1/10

Printing date: 01.10.2019 Date of issue: 14.02.2019

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

#### 1.1 **Product identifier**

REF 91317

Product name **QUANTOFIX Chlorine** 

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 Cl<sub>2</sub>-1 1 x 25 mL Cl<sub>2</sub> -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: sds@mn-net.com (msds@mn-net.com)

#### 1.4 **Emergency telephone number**

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

You find our current versions of SDS (22 languages) in Internet:

http://www.mn-net.com/SDS

### **SECTION 2: Hazard identification**

#### 2.0 Classification of the complete product





GHS02

GHS07

Signal word WARNING

Hazard identification Hazard classes/categories EUH031 031 not defined H226 Flam. Liq. 3 H302 Acute Tox. 4 oral H312 Acute Tox. 4 derm. H332 Acute Tox. 4 inh.

#### 2.1 Classification of the substance or mixture

100 test strips

Do not need labelling as hazardous

Signal word

No hazard class

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7 g Cl<sub>2</sub> -1

Do not need labelling as hazardous

Signal word

No hazard class

25 mL Cl<sub>2</sub> -2





Signal word WARNING

**Hazard identification** Hazard classes/categories EUH031 031 not defined H226 Flam. Liq. 3 Acute Tox. 4 oral H302 H312 Acute Tox. 4 derm. H332 Acute Tox. 4 inh.

#### 2.2 Label elements

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

### 100 test strips

Do not need labelling as hazardous Signal word: -

### 7 g Cl<sub>2</sub>-1

Do not need labelling as hazardous Signal word: -

25 mL Cl<sub>2</sub> -2





Signal word: WARNING

#### 2.3 Other hazards

Possible hazards from physicochemical properties

Flammable properties. --

Information pertaining to particular risks to human and possible symptoms

Cause after oral intake, inhalation of vapours/dust, impairments of health when ingested in small quantities. ---

Information pertaining to particular risks to the environment

Other hazards

Contains an odor intensive reagent. ---

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DE/international: CH: FR:

Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 Fax: +1 484 821 1272

Version: M V 4.10.1 E-mail: info@mn-net.com

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

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

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

US:



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## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances or 3.2 Mixtures

100 test strips

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

Classification: No criteria for classification or naming of chemical not required. Formula:

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

KE No.: KE-05339 Concentration: 1 - < 10 %

acc. CLP (GHS): The criteria for classification are not fulfilled

Chemical: chemicals/mixture < 1% CAS No : -

Classification: No criteria for classification or naming of chemical not required all listed,  ${<}1\%$ 

TSCA Inventory: KE No.: listed Concentration: 0.1 - <1 %

acc. CLP (GHS): The criteria for classification are not fulfilled.

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

Classification: No criteria for classification or naming of chemical not required.

TSCA Inventory: listed Concentration: 95 - <100 %

acc. CLP (GHS): The criteria for classification are not fulfilled

7 g Cl<sub>2</sub> -1

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

Classification: No criteria for classification or naming of chemical not required.

Formula: K/Na<sub>1-3</sub> H<sub>2-0</sub> PO<sub>4</sub>

TSCA Inventory: all listed KE No.: listed Concentration: 75 - <100 %

acc. CLP (GHS): The criteria for classification are not fulfilled.

25 mL Cl<sub>2</sub> -2

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

Classification: H225, Flam. Liq. 2, H302, Acute Tox. 4 oral, H312, Acute Tox. 4 derm., H332, Acute Tox. 4 inh.

Formula: C<sub>5</sub> H<sub>5</sub> N

Pseudonym: Azabenzene, Azine TSCA Inventory: listed REACH Reg. No.: 01-2119493105-40-xxxx

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

KE No.: KE-29929 Concentration: 32 - <44 %

acc. CLP (GHS): H226, Flam. Lig. 3, H332, Acute Tox. 4 inh.

potassium cyanide Chemical: CAS No.: 151-50-8

Classification: H300, Acute Tox. 2 oral, H310, Acute Tox. 2 derm., H330, Acute Tox. 2 inh., H410, Aquatic Chronic

1, EUH032, not defined KCN Formula: TSCA Inventory: listed

01-2119486407-29-xxxx REACH Reg. No.:

EC No.: 205-792-3 Indice No.: 006-007-00-5 RTECS: TS8750000 MFCD: 00011397 KE No.: KE-29092, >1% Toxic 97-1-90

Concentration: 0,1 - <1 % Correlation factor: x 0.40 (= %CN-) The classification refers to weight percent of the metal (according to CLP Regulation 2008/1272/EC Annex VI, 1.1.3.2 Note 1)

acc. CLP (GHS): H302, Acute Tox. 4 oral, H312, Acute Tox. 4 derm., H332, Acute Tox. 4 inh., EUH031, 031 not

defined

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#### 3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.

List of H and P phrases: see section 16.1

### **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.

### 4.1.1

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).

### After INHALATION of vapours 4.1.3

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. 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. ---

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

### 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.

#### 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

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

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

Regular staff training is necessary.

#### 6.2 **Environmental precautions**

not necessary

#### 6.3 Methods and material for containment and cleaning up

Bind any escaping liquid with inert absorbent.

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.

#### 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

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

TRGS 900 (DE): Staub 1.25 A / 4 E mg/m<sup>3</sup>

E/e respirable

SUVA(CH) MAK value: 3 a ppm

NIOSH:

: TWA 10 (total) / 5 (resp) mg/m³ [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

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

Chemical: chemicals/mixture < 1% CAS No .: -CAS No .: -

Chemical: PVC foil (CAS 9002-86-2)

US:

7 g Cl<sub>2</sub> -1

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

25 mL Cl<sub>2</sub> -2

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

PNEC (fresh water): 3UU µg/L PNEC = Predicted No Effected Concentration

EU value: [TWA] 5 ppm / 15 mg/m<sup>3</sup> TRGS 900 (DE): [8h] 5 ppm / 15 mg/m<sup>3</sup>

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> NIOSH:

[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: [TWA] 5 ppm / 15 mg/m<sup>3</sup>

Chemical: CAS No.: 151-50-8 potassium cyanide

EU value: CN: [TWA] 1 / [STEL] 5 mg/m3 TRGS 900 (DE): [CN 8h] 1 / [15min] 5 mg/m<sup>3</sup>

Short-term exposure factor: (4), H

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

SUVA(CH) MAK value: 5<sub>CN</sub> e mg/m<sup>3</sup> NIOSH: not listed

skin, HCN 4.7 ppm / 5 mg/m<sup>3</sup> NIOSH STEL:

[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: EPCRA/SARA Section 302 Extremely Hazardous Substances Yes (TPQ = 100 lbs) n/a; TWAskin, HCN

10 ppm / 11 mg/m<sup>3</sup>

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8.2 Exposure controls

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

8.2.1 Respiratory protection

No additional recommendations.

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 Eye protection

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

8.2.4 Skin protection

Not necessary.

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 Colour: colored Odor: odorless

7 g Cl<sub>2</sub> -1

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

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

25 mL Cl<sub>2</sub> -2

Appearance: liquid Colour: colourless Odor: like pyridine

Specific gravity: 0,99 g/mL 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 further data available.

10.2 Chemical stability

No known instability.

10.3 Possibility of hazardous reactions

Possible: Contact with acids liberates toxic gas. No further data available.

10.4 Conditions to avoid

---

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.

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DE/international: CH: FR: US: Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.:

Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 Fax: +1 484 821 1272

Version: M V 4.10.1 E-mail: info@mn-net.com E-mail: sales-ch@mn-net.com E-mail: sales-fr@mn-net.com E-mail: sales-us@mn-net.com



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## **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

inhalation, skin and/or eye contact **Exposure Routes: Target Organs:** Eyes, skin, respiratory system Symptoms: irritation eyes, skin, mucous membrane

Australia NICNAS: Canada CEPA 1999: DSL yes not listed

Japan CSCL/PRTR: not listed, Japan PDSCL: not listed

Japan ISHL: not listed South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-05339 >5000 mg/kg LD50<sub>orl rat</sub>: LC50<sub>ihl rat</sub>: >5800<sub>4h</sub> mg/m<sup>3</sup> LD50<sub>drm rbt</sub>: >2000 mg/kg

Chemical: chemicals/mixture < 1% CAS No .: -

TSCA Inventory: all listed, <1%

Korea Exist.Chem.Inventory: listed

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

TSCA Inventory:

7 g Cl<sub>2</sub>-1

Chemical: CAS No : phosphates (buffer salts)

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

25 mL Cl<sub>2</sub> -2

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

TSCA Inventory: California Proposition 65 List: listed cancer listed 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 Japan ISHL: listed ≥1,0%/≥0,1%,

Korea Exist.Chem.Inventory: KE-29929 800-1600 mg/kg LD50<sub>orl rat</sub>: [4h] 4900 ppm LC\_Lowihl rat: LC\_Loworl gpg: 4000 mg/kg LC\_Loworl hmn: 500 mg/kg LC50<sub>ihl rat</sub>: 28500<sub>1h</sub> mg/m<sup>3</sup>

LD50<sub>drm rbt</sub>: 1000-2000 mg/kg
Acute Effects: Cause after skin contact, impairments of health when ingested in small quantities.

TRGS 905 (DE): [DFG] carc. 3B

Chemical: potassium cyanide CAS No.: 151-50-8

TSCA Inventory: California Proposition 65 List: not listed

Target Organs: act on blood or hemato-poietic system: decrease hemoglobin function; deprive body tissues of

oxygen Symptoms: cyanosis; loss of consciousness

Australia NICNAS: Canada CEPA 1999: DSL Yes

Japan CSCL/PRTR: Poisonous substance, PRTR: ≥1,0% CN class I, Japan PDSCL: Poisonous Substance

Japan ISHL: listed ≥1,0%/≥1,0%, Article 57-1+2 (Labelling&SDS required)

South Korea TCCA: not listed

KE-29092, >1% Toxic 97-1-90 Korea Exist.Chem.Inventory:

LD50<sub>orl rat</sub>: 5 mg/kg

LC Loworl hmn: 2.86 mg/kg

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> LD50<sub>drm rbt</sub>: 14.3-33.3 mg/kg LD50<sub>ipr rat</sub>: 4 mg/kg LD50 orl mus: 8.5 mg/kg LD50<sub>scu rat</sub>: 7.8 mg/kg

Acute Effects: Cause after oral intake, inhalation of vapours/dust, skin contact, impairments of health when ingested in small

quantities.

TRGS 905 (DE): R<sub>F</sub> C

## **SECTION 12: Ecological information**

#### 12.1 **Toxicity**

Following information is valid for pure substances.

100 test strips

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

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

Chemical: chemicals/mixture < 1% CAS No .: -

Water hazard class (DE): Storage class (VCI): 12-13

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

7 g Cl<sub>2</sub> -1

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

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

25 mL Cl<sub>2</sub> -2

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

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 300 µg/L

LC50<sub>fish/96h</sub>: [EC50 4h] 560-1000 mg/L

EC50<sub>daphnia/48h</sub>: 320 mg/L IC50scenedesmus quadricauda/72h: IC5/7d: 120 mg/L [EC50 72h] 320 mg/L mg/L EC10pseudomonas putita/16h: Water hazard class (DE): WGK No.: 0179

Dispersion coefficient(octanol-water): 0.64 Storage class (VCI):

CAS No.: 151-50-8 Chemical: potassium cyanide

LC50daphnia magna/48h: 248h; 0.5324h mg/L LC50<sub>fish/96h</sub>: 0.45 mg/L EC50<sub>daphnia/48h</sub>: 0.041 mg/L IC50<sub>scenedesmus</sub> quadricauda/72h: 0.03<sub>8d</sub> mg/L

EC10/16h: 0.001 mg/L EC10<sub>pseudomonas putita/16h</sub>: Water hazard class (DE): WGK No.: 338

Storage class (VCI): 6.1 B

#### 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

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### 12.6 Other adverse effects

no additional data available

## **SECTION 13: Disposal considerations**

Do not collect in acidic waste. May form toxic gases.

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

none

### 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

MN Leaflet/User manual, also see www.mn-net.com

Look for your country-specific regulations.

### 15.2 Chemical safety assessment

not necessary for these small amounts ---

### **SECTION 16: Other information**

### 16.1 List of H and P phrases

## 16.1.1 List of relevant H phrases

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.

H332 Harmful if inhaled.

EUH031 Contact with acids liberates toxic gas.

### 16.1.2 List of relevant P phrases

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P260D Do not breathe vapours.

P260D Do not breathe vapours.
P261sh Avoid breathing dust/vapours.

P264W Wash with water thoroughly after handling. P280sh Wear protective gloves/eye protection.

P301+312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P302+352 IF ON SKIN: Wash with plenty of water.

P330 Rinse mouth.

### 16.2 Training advice

Regular safety training.

### 16.3 Recommended restriction on use

Only for professional user.

An individual package of this product or test kit has a moderate hazardous potential.

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Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 +1 484 821 1272 Fax:

Version: M V 4.10.1 E-mail: info@mn-net.com

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

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

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



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### 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, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress Regulation 669/2018/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 03/2018 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

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ISO 9001 CERTIFIED MACHEREY-NAGEL GmbH & Co. KG  $\cdot$  Neumann-Neander-Str. 6–8  $\cdot$  52355 Düren  $\cdot$  Germany

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