

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

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Printing date: 28.03.2017 Date of issue: 28.03.2017

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

#### 1.1 **Product identifier**

REF 91332

Product name QUANTOFIX Arsenic 50

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.

2 x 30 g As-1 2 x 30 g As-2

1 x 100 test sticks Arsenic

#### 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



GHS07

Signal word WARNING

#### Hazard identification Hazard classes/categories

H315 Skin Irritation cat. 2 H319 Eye Irritation cat. 2

H410 Hazardous to the aquatic environment - chronic cat. 1 H412 Hazardous to the aquatic environment - chronic cat. 3

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DE and international: CH: FR:

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#### 2.1 Classification of the substance or mixture

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

Hazard identification Hazard classes/categories

H410 Hazardous to the aquatic environment - chronic cat. 1

### 30 q As-2

Directive 1999/45/EC

R 36/38

Symbols



CLP Directive 1272/2008/EC

GHS pictograms



Signal word WARNING

#### Hazard identification Hazard classes/categories

H315 Skin Irritation cat. 2 H319 Eye Irritation cat. 2

H412 Hazardous to the aquatic environment - chronic cat. 3

### 100 test sticks Arsenic

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

#### 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

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/míxtures with signal word: WARNING must not be labelled with H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).

### 30 g As-1

Directive 1999/45/EC Symbols:

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-

S 60-61

This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/Safety data sheets.

CLP Directive 1272/2008/EC

GHS pictograms:

do not need labelling as hazardous

Signal word: -

### 30 g As-2

Directive 1999/45/EC Symbols:



Χi

R 36/38

Irritating to eyes and skin.

S 26-28-61

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. Avoid release to the environment. Refer to special instructions/Safety data sheets.

CLP Directive 1272/2008/EC

GHS pictograms:



GHS07

Signal word: WARNING

### 100 test sticks Arsenic

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: -

### 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.

Information pertaining to particular Risks to Human and possible Symptoms

Can accumulate within the body.

Information pertaining to particular Risks to the Environment

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DE and 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

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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Other Hazards

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

#### 3.1 Substances or 3.2 Mixtures

30 g As-1

Chemical: zinc powder (stabilizied) CAS No.: 7440-66-6

Concentration: 25 - <75 %

Formula: Zn

REACH Reg. No.: 01-2119467174-37-xxxx

231-175-3 EC No.: Indice No.: 030-002-01-9

ZG8600000 RTECS: TSCA Inventory: listed KE No.: KE-35518

acc. 1999/45/EC: R 50/53 acc. CLP (GHS): H410

30 g As-2

Chemical: aminosulfonic acid (sulfamic acid) CAS No.: 5329-14-6

50 - <100 % Concentration:

Formula:  $H_3 NO_3 S$ 

REACH Reg. No.: 01-2119488633-28-xxxx EC No.: 226-218-8 Indice No.: 016-026-00-0

WO5950000 MFCD: 0005994x RTECS: TSCA Inventory:

R 36/38-52/53 acc. 1999/45/EC: acc. CLP (GHS): H315, H319, H412

100 test sticks Arsenic

Chemical: mercury(II) bromide CAS No.: 7789-47-1

Concentration: Correlation factor: x 0.56 (= %Hg) < 0,09 %

Formula: HgBr<sub>2</sub> EC No.: 232-169-3

080-004-00-7 Indice No.:

RTECS: OV7415000 TSCA Inventory: listed

KE No.: KE-23120, Toxic 97-1-140

listed

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

Chemical: cellulose CAS No : 9004-34-6

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

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

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

95 - <100 % Concentration:

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

### 3.3

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.

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

Avoid inhalation of dust. Can accumulate within the body. ---

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

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.

6.2 Environmental precautions

not necessary, contains only small amounts of these substances

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): 8B Water hazard class (DE): 3

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

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DE and 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

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



CAS No.: 7440-66-6

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

8.1 Control parameters

> 30 g As-1 Chemical:

zinc powder (stabilizied)

DNEL: 1<sub>inh</sub> mg/m<sup>3</sup> DNEL = Derived No-Effect Level (for workers)

0.1A / 2E mg/m<sup>3</sup> TRGS 900 (DE):

E/e respirable

30 g As-2

Chemical: aminosulfonic acid (sulfamic acid) CAS No.: 5329-14-6

DNEL: [inh] 70,5 mg/m<sup>3</sup>

DNEL = Derived No-Effect Level (for workers)

100 test sticks Arsenic

mercury(II) bromide CAS No.: 7789-47-1 Chemical:

FU value: 0.02<sub>Hg</sub> e mg/m<sup>3</sup> 0,02<sub>Hg</sub> E mg/m<sup>3</sup> E/e respirable TRGS 900 (DE):

Short-term exposure factor: 8 (II), H, Sh

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

SUVA(CH) MAK value: 0,1 e mg/m3 SUVA(CH) BAT value: Krea U/d 35 µg/L U/a 25<sub>Kreatinin</sub> µg/g B blood, U urine TRGS 903 (DE):

NIOSH: Hg Vapor: TWA<sub>skin</sub> 0.05; other 0.1 mg/m³

OSHA: TWA 0.1 mg/m<sup>3</sup>

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

TRGS 900 (DE): Staub 1.25 A / 4 E mg/m3

E/e respirable

SUVA(CH) MAK value: 3 a ppm

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

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

#### 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

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

#### 8.2.4 **Skin Protection**

Not necessary.

### 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**

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

Color: slightly grey Odor: odorless Appearance: powder (solid)

pH:

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30 g As-2

Appearance: solid Color: colourless Odor: odorless

pH: < 2

Melting point: instable 205 °C
Vapour pressure (20°C): 0.0078 hPa
Specific gravity: 2.12 sol. g/cm³
Solubility in water: 0-17 %
Volatiles by volume: 0.031 mg/m³

100 test sticks Arsenic

Appearance: solid Color: colourless Odor: odorless

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

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10.5 Incompatible materials

Not necessary. Avoid contact with concentrated acids and oxidizing agents.

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.

30 g As-1

Chemical: zinc powder (stabilizied) CAS No.: 7440-66-6

TSCA Inventory: listed

Korea Exist.Chem.Inventory: KE-35518

LD50<sub>orl rat</sub>: >2000 mg/kg

LC\_Low<sub>inh hmn</sub>: 124<sub>50min</sub> mg/m³

LC50<sub>ihl rat</sub>: >5.4<sub>4h</sub> mg/m³

30 g As-2

Chemical: aminosulfonic acid (sulfamic acid) CAS No.: 5329-14-6

TSCA Inventory: listed

Target Organs: affect the eye or visual capacity Symptoms: conjunctivitis; corneal damage

LĎ50<sub>orl rat</sub>: 3160 mg/kg LD50<sub>orl gpg</sub>: 1050 mg/kg LD50<sub>orl mus</sub>: 1312 mg/kg

100 test sticks Arsenic

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DE and 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

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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> mercury(II) bromide CAS No.: 7789-47-1 Chemical: TSCA Inventory: California Proposition 65 List: listed developmental listed

inhalation, skin absorption, ingestion, skin and/or eye contact **Exposure Routes:** Target Organs: Eyes, skin, respiratory system, central nervous system, kidneys

Symptoms: irritation eyes, skin; cough, chest pain, dyspnea (breathing difficulty), bronchitis, pneumonitis; tremor,

insomnia, irritability, indecision, headac

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

Japan PDSCL: Poisonous substance Japan ISHL: listed ≥0,3%/≥0,1%

Korea Exist.Chem.Inventory: KE-23120, Toxic 97-1-140

40 mg/kg LD50<sub>orl rat</sub>: LC\_Lowskn rbt: 41 mg/kg LD50<sub>drm rat</sub>: 100 mg/kg

TRGS 907 (DE): Sh

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

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 >5800<sub>4h</sub> mg/m<sup>3</sup> LC50<sub>ihl rat</sub>: LD50<sub>drm rbt</sub>: >2000 mg/kg

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

TSCA Inventory: listed

### **SECTION 12: Ecological information**

#### 12.1 **Toxicity**

Following information is valid for pure substances.

30 g As-1

zinc powder (stabilizied) CAS No.: 7440-66-6

Very toxic to aquatic life with long lasting effects. Avoid contact of substance/mixture to environment.

Environmental hazards must not be labelled with H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).

LC50fish/96h: 2.01 mg/L EC50daphnia/48h: 0.131 mg/L EC50<sub>pseudokirchneriella</sub> subcapitata/72h IC50: 0.713 mg/L

Water hazard class (DE): 2 WGK No.: 7325

Storage class (VCI): 13

30 g As-2

aminosulfonic acid (sulfamic acid)

Harmful to aquatic life with long lasting effects. Avoid contact of substance/mixture to environment. Environmental hazards must not be labelled with P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).

Water hazard class (DE): WGK No.: 1266

Storage class (VCI): 8 B

100 test sticks Arsenic

Chemical: mercury(II) bromide CAS No.: 7789-47-1

LC<sub>50</sub>: 0.5<sub>HgCl2/48h</sub> mg/m<sup>3</sup> 3 WGK No.: 0398 Bio Toxicity: Water hazard class (DE):

Storage class (VCI): 6.1 B

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

Water hazard class (DE): nwg Storage class (VCI): 11

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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: +41 62 388 55 05 Fax: +49 24 21 969-199 Fax: +33 388 51 76 88 Fax: +1 484 821 1272 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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Chemical: PVC foil (CAS 9002-86-2) CAS No.: -

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, contains only small amounts of these substances

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, H and P phrases

16.1.1 List of relevant R phrases

R36/38 Irritating to eyes and skin.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

16.1.2 List of relevant H phrases

H315 Causes skin irritation. H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

16.1.3 List of relevant P phrases

P273 Avoid release to the environment.

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DE and 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
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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P280sh Wear protective gloves/eye protection.

P391 Collect spillage

### 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.

### 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

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

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:



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

DE and 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

E-mail: info@mn-net.com E-mail: sales-ch@mn-net.com E-mail: sales-sfr@mn-net.com E-mail: sales-us@mn-net.com