

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

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#### 1 Identification of the Substance/Mixture and of the Company

#### 1.1 **Product identifier**

REF 91332

Product name QUANTOFIX Arsenic 50

> 2 x 30 g Arsenic-1 2 x 30 g Arsenic-2 1 x 100 test sticks Arsenic

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Product for analytical use.

Exposure Scenario Classification according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 The exposure scenario is integrated into sections 1-16.

#### 1.3 Details of the supplier of the safety data sheet

Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG

Neumann-Neander-Str. 6-8, 52355 Dueren, GERMANY

Tel.: +49 2421 969 0 E-mail: msds@mn-net.com

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

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

Missing subsections are not relevant for the risk assessment of the product and may be omitted programmatically.

#### 2 **Hazard Identification**

#### 2.1 Classification of the substance(s) or mixture(s) - in the complete product

### Directive 1999/45/EC

Symbols

R



R 36/38

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

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

#### 2.2 **Hazard Description**

### 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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Other Hazards

#### 2.3 Other hazards: Description of the components

30 g Arsenic-1

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 WARNING

Hazard identification Hazard classes/categories

H410 Hazardous to the aquatic environment - chronic cat. 1

30 g Arsenic-2

Directive 1999/45/EC

R 36/38

Symbols

CLP Directive 1272/2008/EC

GHS pictograms



**WARNING** Signal word

Hazard identification Hazard classes/categories

H315 Skin Irritation cat. 2 H319 Eve 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

do not need labelling as hazardous GHS pictograms Signal word do not need labelling as hazardous

No hazard class

#### 3 Composition/Information on Ingredients

#### 3.1 Substances or 3.2 Mixtures

30 g Arsenic-1

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

Concentration: 25 - 75 %

Formula: Zn

01-2119467174-37-xxxx REACH Reg. No.: EC No.: 231-175-3 Indice No:

ZG8600000 RTECS:

TSCA Inventory: listed

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

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30 g Arsenic-2

Chemical: aminosulphonic acid (sulphamic acid)

CAS No.: 5329-14-6

Indice No.:

080-004-00-7

Concentration: 50 - 100 %  $H_3 NO_3 S$ Formula:

REACH Reg. No.: 01-2119488633-28-xxxx

EC No.: 226-218-8 Indice No.: 016-026-00-0 RTECS: WO5950000 MFCD: 0005994x TSCA Inventory:

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

100 test sticks Arsenic

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

Concentration: < 0.09 % Correlation factor: x 0.56 (= %Hg)

Formula: HgBr<sub>2</sub>

EC No.: 232-169-3 RTECS: OV7415000

TSCA Inventory: listed

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

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

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

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

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

Concentration: 95 - 100 %

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

#### 3.2 Remarks

List of R and H phrases: see chapter 16

#### **First Aid Measures** 4

#### 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

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 Indication of any immediate medical attention and special treatment needed

No additionally recommendations.

#### 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.

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#### 5.3 Advice for firefighters

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

5.4 Additional Information

#### 6 **Accidental Release Measures**

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

Regular staff training is necessary.

#### 6.2 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.

#### 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.

#### 8 **Exposure Controls/Personal Protection**

#### 8.1 **Control parameters**

30 g Arsenic-1

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

UNEL: 1<sub>inh</sub> mg/m³ DNEL = Derived No-Effect Level (for workers)

TRGS 900 (DE): 0.1A / 2E mg/m3 E/e respirable

TSCA Inventory: listed

30 g Arsenic-2

Chemical: aminosulphonic acid (sulphamic acid) CAS No.: 5329-14-6

TSCA Inventory: listed

100 test sticks Arsenic

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

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

skin resorptive (H), respiratory sens sitizable (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):

TRGS 907 (DE): Sh

TSCA Inventory: listed California Proposition 65 List: listed developmental

NIOSH: Hg Vapor: TWA<sub>skin</sub> 0.05; other 0.1 mg/m<sup>3</sup>

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

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

TRGS 900 (DE): Staub 4 E mg/m<sup>3</sup> E/e respirable SUVA(CH) MAK value: 3 a ppm

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 TSCA Inventory: listed California Proposition 65 List: not listed

NIOSH: not listed OSHA: not listed

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## MACHEREY-NAGEL



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

CAS No .: -

#### 8.2 **Exposure controls**

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

**Respiratory Protection** 8.2.1

Only if additional recommendations in test instruction or packing insert.

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 **Eve 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.

#### 9 **Physical and Chemical Properties**

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

30 g Arsenic-1

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

30 g Arsenic-2

Color: colourless Odor: odorless Appearance: solid

100 test sticks Arsenic

Color: colourless Odor: odorless Appearance: solid

#### 9.2 Other information

#### 9.2.1 Safety relevant Basis Data

30 g Arsenic-1

pH: 6-8

30 g Arsenic-2

pH: < 2

Specific gravity: 2.12 sol. g/cm3 0-17 % Solubility in water: instable 205 °C Melting point: Vapour pressure (20°C): 0.0078 hPa Volatiles by volume: 0.031 mg/m<sup>3</sup>

100 test sticks Arsenic

#### 9.2.2 **Relevant Properties of Substance Group**

#### 9.3 Additional Information

not necessary

### Stability and Reactivity

#### 10.1 Conditions to avoid

Not necessary. When indicated in packing insert.

#### 10.2 Incompatible materials

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

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CAS No.: 7440-66-6

CAS No.: 5329-14-6

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#### 10.3 Hazardous decomposition products

In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

### 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 Arsenic-1

Chemical: zinc powder (stabilizied)

LD50<sub>orl rat</sub>: >2000 mg/kg LC\_Lowinh hmn: 124<sub>50min</sub> mg/m<sup>3</sup> >5.4<sub>4h</sub> mg/m<sup>3</sup> LC50<sub>ihl rat</sub>:

30 g Arsenic-2

Chemical: aminosulphonic acid (sulphamic acid)

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

100 test sticks Arsenic

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

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

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

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

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

## **Ecological information**

#### 12.1 **Toxicity**

Following information is valid for pure substances.

30 g Arsenic-1

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

LC50<sub>fish/96h</sub>: 2.01 mg/L EC50<sub>daphnia/48h</sub>: 0.131 mg/L

EC50pseudokirchneriella subcapitata/72h: IC50: 0.713 mg/L WGK (DE): WGK No.: 7325 2

Storage class (VCI): 13

30 g Arsenic-2

E-mail: info@mn-net.com

Chemical: aminosulphonic acid (sulphamic acid) CAS No.: 5329-14-6

WGK (DE): WGK No.: 1266

Storage class (VCI): 8 B

100 test sticks Arsenic

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

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

6.1 B Storage class (VCI):

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

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

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

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#### 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

### Transport Information

No dangerous goods according the transport regulations

## Regulatory Information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung -GefStoffV), revised on November 2010, according to Directive 98/24/EC

TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products, updated October 2011

Announcement BekGS 220 (DE), Safety Data Sheet, June 2013

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

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

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

### 30 g Arsenic-1

Directive 1999/45/EC

Symbols:

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: WARNING

### 30 g Arsenic-2

Directive 1999/45/EC Symbols:



Xi

R 36/38

Irritating to eyes and skin.

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/FC

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GHS pictograms:



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: -

#### 15.2 **Chemical safety assessment**

not necessary for these small amounts

### Other Information

#### 16.1 List of R and H 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

Causes skin irritation. H315 Causes serious eye irritation. H319

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

#### 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

MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

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#### 16.5 Sources of Key Data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS

Regulation 487/2013/EU, 4th adaptation of CLP regulation to technical and scientific progress

TRGS 900, German engineering rules governing limits in air at work, updated July 2012

SUVA .CH, Limits in air at work 2009, revised on 01.2009

KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances

### 16.6. Revisions/Updates

Reason for Revision: 2014-02 Corrected structure of sections acc. regulation 453/2010/EU, if necessary 2014-04 Adaptation of regulation 487/2013/EU

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