

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

**QUANTOFIX Ammonium** Page: 1/9

Printing date: 01.10.2019 Date of issue: 15.03.2019

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

#### 1.1 **Product identifier**

REF 91315

Product name **QUANTOFIX Ammonium** 

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 sticks Ammonium

2 x 30 mL NH<sub>4</sub>+ -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: 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. DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730

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



GHS05

Signal word **DANGER** 

Hazard identification Hazard classes/categories

H290 Met. Corr. 1 H314 Skin Corr. 1A

#### 2.1 Classification of the substance or mixture

100 Test sticks Ammonium

Do not need labelling as hazardous

Signal word

No hazard class

30 mL NH<sub>4</sub>+ -1

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GHS05

Signal word **DANGER** 

**Hazard identification** Hazard classes/categories

H290 Met. Corr. 1 H314 Skin Corr. 1A

#### 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

Metal corrosive solutionsdo not have to be labelled with GHS symbol, signal word, H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2.1.3).

### 100 Test sticks Ammonium

Do not need labelling as hazardous Signal word: -

### 30 mL NH<sub>4</sub>+ -1



Signal word: DANGER

Causes severe skin burns and eye damage.

P260sh, P280sh, P303+361+353, P305+351+338, P310

Do not breathe dust/vapours. Wear protective gloves/eye protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

#### 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. H290 "May be corrosive to metals." has only relevance for higher concentrations and larger amounts. The labelling GHS05 would be creating an "OVERLABELLING" (see GHS Directive 1272/2008/EC Annex I, chapter 1.5.2.1.3., until 125 mL no labelling necessary). ---

## 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. Can accumulate within the body.

### Information pertaining to particular risks to the environment

Avoid contact of substance/mixture to environment.

PBT: not applicable vPvB: not applicable

Other hazards

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

#### 3.1 Substances or 3.2 Mixtures

100 Test sticks Ammonium

potassium tetraiodomercurate(II) Chemical: CAS No : 7783-33-7

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

Formula: K<sub>2</sub> (Hgl<sub>4</sub>) TSCA Inventory: listed

EC No.: 231-990-4-8 080-004-00-7 Indice No :

OU9670000 RTECS:

KE No.: KE-12197, Toxic 97-1-140

Concentration: < 0,10 % Correlation factor: x 0.26 (= %Hg)
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): The criteria for classification are not fulfilled

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

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

TSCA Inventory: Concentration: 95 - < 100 %

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

30 mL NH<sub>4</sub>+ -1

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

Classification: H290, Met. Corr. 1, H314, Skin Corr. 1B

Formula: NaOH•H2O Pseudonym: soda lye TSCA Inventory: listed

REACH Reg. No.: 01-2119457892-27-xxxx EC No.: 215-185-5 Indice No: 011-002-00-6

RTECS: WB4900000 KE No.: KE-31487 Concentration: 20 - < 35 %

acc. CLP (GHS): H290, Met. Corr. 1, H314, Skin Corr. 1B

#### 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. 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

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.

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#### 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 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. -

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

Can accumulate within the body. ---

#### 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. ---

#### 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

Danger for environment only in the event of a large-scale leakage or formation of hazardous substances. ---

## **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

see information in section 5.4 ---

### **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. 8B

Storage class (VCI): Water hazard class (DE): 3

#### Requirements for stock rooms and containers 721

Keep original product packages tightly closed during handling and storage. Use inbreakable container for transport of glass bottles.

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#### 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 sticks Ammonium

Chemical: CAS No.: 7783-33-7 potassium tetraiodomercurate(II)

EU value: [Hg] 0.02 e mg/m<sup>3</sup> [Hg] 0,02 E mg/m<sup>3</sup> TRGS 900 (DE):

Short-term exposure factor: 8 (II), H, Sh skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: [Hg][MAK] 0,02 e/[STEL] 0,16 e mg/m3

SUVA(CH) BAT value: [Krea U/d] 35 µg/L TRGS 903 (DE):

[Krea U/a] 25 µg/L B blood, U urine, a no limitation, b end of exposition or shift

: [Hg vapor, TWA<sub>skin</sub>] 0.05; other 0.1 mg/m³ [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

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

filter paper (cellulose CAS 9004-34-6) Chemical: CAS No.: -

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

SUVA(CH) MAK value: 3 a mg/m<sup>3</sup> not listed NIOSH:

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

OSHA: not listed

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

30 mL NH<sub>4</sub>+ -1

Chemical: sodium hydroxide solution CAS No.: 1310-73-2 DNEL: [inh] 1 mg/m<sup>3</sup>

DNEL = Derived No-Effect Level (for workers) 2 mg/m³ E/e respirable TRGS 900 (DE): 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/m<sup>3</sup> NIOSH:

E: 2 mg/m³
[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: [TWA] 2 mg/m<sup>3</sup>

#### 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

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 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.

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# Safety Data Sheet

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

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

100 Test sticks Ammonium

Appearance: solid Colour: yellow Odor: odorless

30 mL NH<sub>4</sub>+ -1

Colour: colourless Odor: odorless Appearance: liquid

pH: 14

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

#### 9.2 Other information

**Relevant Properties of Substance Group** 

### **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

Can react violently with organic material. No further 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 sticks Ammonium

Chemical: potassium tetraiodomercurate(II) CAS No.: 7783-33-7

TSCA Inventory: listed California Proposition 65 List: listed developmental

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

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

insomnia, irritability, indecision, headac

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

Japan ISHL: listed ≥0,3%/≥0,1%

Korea Exist.Chem.Inventory: KE-12197, Toxic 97-1-140

LD50<sub>orl rat</sub>: Hgl<sub>2</sub> 18 mg/kg LC Loworl hmn: 357 mg/kg LD50<sub>drm rat</sub>: 75 mg/kg

TRGS 907 (DE):

Chemical: filter paper (cellulose CAS 9004-34-6)

California Proposition 65 List: not listed TSCA Inventory listed 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

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> 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 .: -

TSCA Inventory: listed

30 mL NH<sub>4</sub>+ -1

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

TSCA Inventory: listed California Proposition 65 List: not listed

inhalation, ingestion, skin and/or eye contact **Exposure Routes:** 

Target Organs: Eyes, skin, respiratory system

irritation eyes, skin, mucous membrane; pneumonitis; eye, skin burns; temporary loss of hair Symptoms:

Australia NICNAS: Canada CEPA 1999: DSL Yes

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

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

South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-31487

LD50<sub>orl rat</sub>: [40%] 1250 / [<25%] >2000 mg/kg

40 mg/kg LD50<sub>orl mus</sub>:

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

#### 12.1 **Toxicity**

Following information is valid for pure substances.

100 Test sticks Ammonium

Chemical: potassium tetraiodomercurate(II) CAS No.: 7783-33-7

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

Storage class (VCI):

Chemical: filter paper (cellulose CAS 9004-34-6) CAS No .: -

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

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

30 mL NH<sub>4</sub>+ -1

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

Avoid contact of substance/mixture to environment. LC50<sub>leuciscus idus/96h</sub>: 35-189 mg/L LC50<sub>fish/96h</sub>: 45.4 ma/L EC50<sub>daphnia/48h</sub>: >100 mg/L

Water hazard class (DE): WGK No.: 142

Storage class (VCI): 8 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

12.6 Other adverse effects

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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. 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:

acc. ADR 3.3.1/251: see LQ in Alternative declaration for transportation Limited Quantity:

Air transport

PAX: max. weight PAX: 10 KG CAO: 960 max. weight CAO: 10 KG

Maritime transport

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

### Or use Alternative declaration for transportation:

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)

14.3 Class: 14.4 Packing group:

F 2

855

Road transport

Classification code: C5 Tunnel restriction code: F

Limited Quantity: 1 I

**Excepted Quantity:** 

Air transport PAX: 851 max. weight PAX:

CAO

Maritime transport F-A. S-B EmS: Storage category: R

#### 14.5 **Environmental hazards**

#### 14.6 Special precautions for user

not necessary

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

max. weight CAO:

### **SECTION 15: Regulatory information**

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

30 L

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 ---

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

#### List of H and P phrases 16.1

16.1.1 List of relevant H phrases

> H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

16.1.2 List of relevant P phrases

Do not breathe dust/vapours. P260sh

P280sh Wear protective gloves/eye protection.

P303+361+353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

Immediately call a POISON CENTER/doctor. P310 P390 Absorb spillage to prevent material damage.

#### 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 for DE §§ 11-13 MuSchG 2017)! 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 Regulation 669/2018/EU, 4th 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/Undates

Reason for Revision: 2016-03 Adaptation of regulation 1221/2015/EU

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