

# Safety Data Sheet

according to Directive 1907/2006/EC (REACH) and Regulation 2015/830/EU

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

### 1.1 Product identifier

REF 92115  
Product name pH-Fix 0.0-6.0  
1 x 100 Indicator sticks

### 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

Information not necessary.

## SECTION 2: Hazard identification

### 2.1 Classification of the substance or mixture

#### 100 Indicator sticks

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

#### 100 Indicator sticks

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: -

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## 2.3 Other hazards

### Possible Hazards from physicochemical Properties

According to our current status of knowledge and experience we state, that this product does not contain any substances, which - in accordance with EC regulations 1272/2008/EC, 1907/2006/EC, 1999/45/EC and German Regulations for Hazardous goods - have to be declared as dangerous goods, either because of their applied concentration or because of their total amount in anyone kit.

An individual package has considerably less hazardous potential.

### Information pertaining to particular Risks to Human and possible Symptoms

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### Information pertaining to particular Risks to the Environment

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### Other Hazards

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## SECTION 3: Composition/Information on Ingredients

### 3.1 Substances or 3.2 Mixtures

#### 100 Indicator sticks

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		
KE No.:	KE-05339		
acc. 1999/45/EC:	-	acc. CLP (GHS):	not necessary
Chemical:	indicator dye(s)	CAS No.:	-
Concentration:	0,01 - 0,1 %		
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

### 3.3 Remarks

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately.

#### 4.1.1 After SKIN Contact

Not necessary. Remove dust with wetted tissue.

#### 4.1.2 After EYE Contact

Not necessary. Rub dust with teardrops from eyes

#### 4.1.3 After INHALATION of Vapours

Not necessary. After inhalation of dust fresh air should be inhaled.

#### 4.1.4 After ORAL Intake

Not necessary.

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

Avoid inhalation of dust. ---

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

No additionally recommendations.

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## 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

None.

### 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

Not necessary.

### 6.2 Environmental precautions

not necessary

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

Clean working area with water. Flush used 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 (German chemical industry): see section 12.1

#### 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 Indicator sticks

Chemical: *cellulose*

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/m<sup>3</sup>

OSHA:

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

Chemical: *indicator dye(s)*

CAS No.: 9004-34-6

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

CAS No.: -

CAS No.: -

### 8.2 Exposure controls

Not necessary.

#### 8.2.1 Respiratory Protection

Not necessary.

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- 8.2.2 Hand Protection**  
Not necessary.
- 8.2.3 Eye Protection**  
Not necessary.
- 8.2.4 Skin Protection**  
Not necessary.
- 8.2.5 Personal Hygiene**  
Information not necessary.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**100 Indicator sticks**

Appearance : solid

Color : colored

Odor : odorless

### 9.2 Other information

Relevant Properties of Substance Group

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#### 9.2.1

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None

### 10.2 Chemical stability

No known instability.

### 10.3 Possibility of hazardous reactions

None.

### 10.4 Conditions to avoid

### 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.

#### 100 Indicator sticks

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 PDSC: 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/m<sup>3</sup>

LD50<sub>drm rbt</sub> : >2000 mg/kg

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Chemical: *indicator dye(s)*

CAS No.: -

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

CAS No.: -

## SECTION 12: Ecological information

### 12.1 Toxicity

Following information is valid for pure substances.

#### 100 Indicator sticks

Chemical: *cellulose*

CAS No.: 9004-34-6

WGK (DE): *nwg*

Storage class (VCI): *11*

Chemical: *indicator dye(s)*

CAS No.: -

Storage class (VCI): *12-13*

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

Not necessary.

### 13.1 Waste treatment methods

GENERAL: Empty solids into municipal waste, empty liquids diluted into drains.

## SECTION 14: Transport information

14.1 - 14.4 Not necessary

### 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

### 15.2 Chemical safety assessment

not necessary for these small amounts

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## SECTION 16: Other Information

### 16.1 List of R, H and P phrases

16.1.1 List of relevant R phrases

16.1.2 List of relevant H phrases

16.1.3 List of relevant P phrases

### 16.2 Training Advice

Regular safety training.

### 16.3 Recommended Restriction on Use

None

### 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 February 2015

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>