

# Safety Data Sheet

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

REF: 90401  
 Printing date: 24.10.2017

PEHANON pH 1,0 - 12,0  
 Date of issue: 06.09.2017

Page: 1/6

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

### 1.1 Product identifier

REF 90401  
 Product name PEHANON pH 1,0 - 12,0

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 200 strips PEHANON®

### 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.

#### 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 Düren, GERMANY  
 Tel.: +49 2421 969 0

E-mail: [msds@mn-net.com](mailto:msds@mn-net.com)

### 1.4 Emergency telephone number

Information not necessary.

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

<http://www.mn-net.com/MSDS>

## SECTION 2: Hazard identification

### 2.1 Classification of the substance or mixture

200 strips PEHANON®

Signal word

Do not need labelling as hazardous

No hazard class

### 2.2 Label elements

200 strips PEHANON®

Do not need labelling as hazardous

Signal word: -

### 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 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

---

#### Information pertaining to particular risks to the environment

---

[www.mn-net.com](http://www.mn-net.com)



Version: M V 4.3.0

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany

DE/international:

Tel.: +49 24 21 969-0

Fax: +49 24 21 969-199

E-mail: [info@mn-net.com](mailto:info@mn-net.com)

CH:

Tel.: +41 62 388 55 00

Fax: +41 62 388 55 05

E-mail: [sales-ch@mn-net.com](mailto:sales-ch@mn-net.com)

FR:

Tel.: +33 388 68 22 68

Fax: +33 388 51 76 88

E-mail: [sales-fr@mn-net.com](mailto:sales-fr@mn-net.com)

US:

Tel.: +1 484 821 0984

Fax: +1 484 821 1272

E-mail: [sales-us@mn-net.com](mailto:sales-us@mn-net.com)

# Safety Data Sheet

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

REF: 90401

PEHANON pH 1,0 - 12,0

Page: 2/6

Printing date: 24.10.2017

Date of issue: 06.09.2017

Other hazards  
---

## SECTION 3: Composition/information on ingredients

### 3.1 Substances or 3.2 Mixtures

#### 200 strips PEHANON®

Chemical: *cellulose* CAS No.: 9004-34-6  
 Formula:  $(C_6H_{10}O_5)_n$   
 REACH Reg. No.: exempt, Annex IV  
 EC No.: ~~93067460~~ RECS Inventory:  
 KE No.: KE-05339  
 Concentration: 90 - <100 %  
 acc. CLP (GHS): The criteria for classification are not fulfilled.

Chemical: *indicator dye(s)* CAS No.: -  
 TSCA Inventory: all listed, <1%  
 Concentration: 0,1 - <1 %  
 acc. CLP (GHS): The criteria for classification are not fulfilled.

### 3.3 Remarks

---

## 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

Remove dust with wetted tissue. Not necessary.

#### 4.1.2 After EYE Contact

Rub dust with teardrops from eyes Not necessary.

#### 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. ---

## 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

---

www.mn-net.com



Version: M V 4.3.0

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany

DE / international:

Tel.: +49 24 21 969-0

Fax: +49 24 21 969-199

E-mail: info@mn-net.com

CH:

Tel.: +41 62 388 55 00

Fax: +41 62 388 55 05

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

FR:

Tel.: +33 388 68 22 68

Fax: +33 388 51 76 88

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

US:

Tel.: +1 484 821 0984

Fax: +1 484 821 1272

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

## Safety Data Sheet

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

REF: 90401  
Printing date: 24.10.2017

PEHANON pH 1,0 - 12,0  
Date of issue: 06.09.2017

Page: 3/6

### 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**  
---

### 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): 11  
Water hazard class (DE): nwg
- 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.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

**200 strips PEHANON®**

Chemical: *cellulose*

TRGS 900 (DE):

Staub 1.25 A / 4 E mg/m<sup>3</sup>

E/e respirable

CAS No.: 9004-34-6

SUVA(CH) MAK value:

3 a ppm

NIOSH:

TWA 10 (total) / 5 (resp) mg/m<sup>3</sup>

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

OSHA:

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

Chemical: *indicator dye(s)*

CAS No.: -

#### 8.2 Exposure controls

Not necessary.

- 8.2.1 Respiratory protection**  
Not necessary.
- 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.

[www.mn-net.com](http://www.mn-net.com)



Version: M V 4.3.0

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany

DE / international:

Tel.: +49 24 21 969-0

Fax: +49 24 21 969-199

E-mail: [info@mn-net.com](mailto:info@mn-net.com)

CH:

Tel.: +41 62 388 55 00

Fax: +41 62 388 55 05

E-mail: [sales-ch@mn-net.com](mailto:sales-ch@mn-net.com)

FR:

Tel.: +33 388 68 22 68

Fax: +33 388 51 76 88

E-mail: [sales-fr@mn-net.com](mailto:sales-fr@mn-net.com)

US:

Tel.: +1 484 821 0984

Fax: +1 484 821 1272

E-mail: [sales-us@mn-net.com](mailto:sales-us@mn-net.com)

## Safety Data Sheet

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

REF: 90401

PEHANON pH 1,0 - 12,0

Page: 4/6

Printing date: 24.10.2017

Date of issue: 06.09.2017

### SECTION 9: Physical and chemical properties

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

200 strips PEHANON®

Appearance: solid

Colour: colored

Odor: odorless

#### 9.2 Other information

Relevant Properties of Substance Group

---

### 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.

##### 200 strips PEHANON®

Chemical:	<i>cellulose</i>	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 PDSCL:	not listed
Japan ISHL:	not listed		
South Korea TCCA:	not listed		
Korea Exist.Chem.Inventory:	KE-05339		
LD50 <sub>orf 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:	<i>indicator dye(s)</i>	CAS No.:	-
TSCA Inventory:	all listed, <1%		

### SECTION 12: Ecological information

#### 12.1 Toxicity

Following information is valid for pure substances.

##### 200 strips PEHANON®

www.mn-net.com



Version: M V 4.3.0

MACHERY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany

DE/international:

Tel.: +49 24 21 969-0

Fax: +49 24 21 969-199

E-mail: info@mn-net.com

CH:

Tel.: +41 62 388 55 00

Fax: +41 62 388 55 05

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

FR:

Tel.: +33 388 68 22 68

Fax: +33 388 51 76 88

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

US:

Tel.: +1 484 821 0984

Fax: +1 484 821 1272

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

# Safety Data Sheet

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

REF: 90401  
Printing date: 24.10.2017

PEHANON pH 1,0 - 12,0  
Date of issue: 06.09.2017

Page: 5/6

Chemical: *cellulose*  
Water hazard class (DE): nwg  
Storage class (VCI): 11

Chemical: *indicator dye(s)*  
Storage class (VCI): 12-13

CAS No.: 9004-34-6

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**  
---

## SECTION 16: Other information

- 16.1 List of H and P phrases**
- 16.1.1 List of relevant H phrases
- 16.1.2 List of relevant P phrases
- 16.2 Training advice**  
Regular safety training.
- 16.3 Recommended restriction on use**  
None
- 16.4 Further information**

[www.mn-net.com](http://www.mn-net.com)



Version: M V 4.3.0

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany

DE/international:

Tel.: +49 24 21 969-0

Fax: +49 24 21 969-199

E-mail: [info@mn-net.com](mailto:info@mn-net.com)

CH:

Tel.: +41 62 388 55 00

Fax: +41 62 388 55 05

E-mail: [sales-ch@mn-net.com](mailto:sales-ch@mn-net.com)

FR:

Tel.: +33 388 68 22 68

Fax: +33 388 51 76 88

E-mail: [sales-fr@mn-net.com](mailto:sales-fr@mn-net.com)

US:

Tel.: +1 484 821 0984

Fax: +1 484 821 1272

E-mail: [sales-us@mn-net.com](mailto:sales-us@mn-net.com)

## Safety Data Sheet

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

REF: 90401

PEHANON pH 1,0 - 12,0

Page: 6/6

Printing date: 24.10.2017

Date of issue: 06.09.2017

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.

MACHEREY-NAGEL GmbH & Co. KG makes NO REPRESENTATIONS or WARRANTIES, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly MACHEREY-NAGEL GmbH & Co. KG will not be responsible for damages resulting from use of or reliance upon this information. See terms and conditions at the end of our price lists for additional information.

### 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

[www.mn-net.com](http://www.mn-net.com)



Version: M V 4.3.0

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany

DE/international:

Tel.: +49 24 21 969-0

Fax: +49 24 21 969-199

E-mail: [info@mn-net.com](mailto:info@mn-net.com)

CH:

Tel.: +41 62 388 55 00

Fax: +41 62 388 55 05

E-mail: [sales-ch@mn-net.com](mailto:sales-ch@mn-net.com)

FR:

Tel.: +33 388 68 22 68

Fax: +33 388 51 76 88

E-mail: [sales-fr@mn-net.com](mailto:sales-fr@mn-net.com)

US:

Tel.: +1 484 821 0984

Fax: +1 484 821 1272

E-mail: [sales-us@mn-net.com](mailto:sales-us@mn-net.com)