

# Safety Data Sheet

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

|                           |                           |                  |
|---------------------------|---------------------------|------------------|
| REF: 90416                | PEHANON pH 5,2 - 6,8      | Page: 1/8        |
| Printing date: 22.11.2022 | Date of issue: 15.03.2022 | Version: 2.2.2.2 |

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

### 1.1 Product identifier

REF 90416  
 no data available PEHANON pH 5,2 - 6,8  
 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  
 Valenciener Str. 11, 52355 Düren, Germany  
 Phone: +49 2421 969 0 E-mail: sds@mn-net.com (msds@mn-net.com)

### 1.4 Emergency telephone number

Information not necessary.  
 You find our current versions of SDS in Internet:

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

Lieferant / Supplier:  
 Carl Roth GmbH + Co KG  
 Schoemperlenstr. 3-5  
 76185 Karlsruhe, Germany  
 +49 721 5606 0  
 sicherheit@carlroth.de

## SECTION 2: Hazard identification

### 2.0 Classification of the complete product according to Regulation (EC) 1272/2008

-

### 2.1 Classification of the substance or mixture according to Regulation (EC) 1272/2008

200 strips PEHANON®

Signal word Do not need labelling as hazardous  
 -

No hazard class

List of H phrases: see section 16.2

### 2.2 Label elements according regulation (EC) 1272/2008

200 strips PEHANON®  
 Do not need labelling as hazardous  
 Signal word: -

#### Label elements of the complete product

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 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

### Possible endocrine disrupting effects

no data available

## SECTION 3: Composition / information on ingredients

### 3.1 Substances or 3.2 Mixtures

#### 200 strips PEHANON®

Substance name: *cellulose paper*  
CAS No.: 9004-34-6

Substance rating: No criteria for classification or naming of chemical not required.  
Formula:  $(C_6H_{10}O_5)_n$   
REACH Reg. No.: exempt, Annex IV  
EC No.: 232-674-9  
Concentration: 90 - <100 %  
acc. CLP (GHS): The criteria for classification are not fulfilled.  
Substance name: *indicator dye(s)*  
CAS No.: -

Substance rating: No criteria for classification or naming of chemical not required.  
Concentration: 0,1 - <1 %  
acc. CLP (GHS): The criteria for classification are not fulfilled.

### 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 16.2.

## 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.

#### 4.1.2 After EYE Contact

Rub dust with teardrops from eyes

#### 4.1.3 After INHALATION of vapours

After inhalation of dust fresh air should be inhaled. ---

#### 4.1.4 After ORAL Intake

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

### 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

#### 5.1.1 Suitable 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. 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.

#### 5.1.2 Unsuitable extinguishing media

no data available

### 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

## SECTION 6: Accidental release measures

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

### 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

Safe storage is guaranteed in the original packaging. Storage class (German chemical industry): see chapter 12.1

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 paper

CAS No.: 9004-34-6

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>

[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>



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Chemical: *indicator dye(s)*

CAS No.: -

## 8.2 Exposure controls

Not necessary.

### 8.2.1 Respiratory protection

Not necessary.

### 8.2.2 Skin protection / Hand protection

Not necessary.

### 8.2.3 Eye / Face Protection

Not necessary.

### 8.2.4 Skin protection

Not necessary.

### 8.2.5 Personal hygiene

Information not necessary.

### 8.2.6 Thermal hazards

no data available

## 8.3 Limitation and monitoring of environmental exposure

Information not necessary.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**200 strips PEHANON®**

|                                      |                   |
|--------------------------------------|-------------------|
| a) State of aggregation:             |                   |
| b) Colour:                           | colourless        |
| c) Odor:                             | red               |
| d) Melting point:                    | no data available |
| e) Boiling point:                    | no data available |
| f) Flammability:                     | no data available |
| g) Explosive limits (lower / upper): | no data available |
| h) Flash point:                      | no data available |
| i) Flashing temperature:             | no data available |
| j) Decomposition temperature:        | no data available |
| k) pH value:                         | no data available |
| l) Kinematic viscosity:              | no data available |
| m) Solubility in water:              | no data available |
| n) Dispersion coefficient (o/w) :    | no data available |
| o) Vapour pressure (20°C):           | no data available |
| p) Specific gravity:                 | no data available |
| q) Relative vapour density (air=1) : | no data available |
| r) Particle size:                    | no data available |

### 9.2 Other information

Properties relevant to substance groups

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None

### 10.2 Chemical stability

no known instability.



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## 10.3 Possibility of hazardous reactions

None.

## 10.4 Conditions to avoid

Not known.

## 10.5 Incompatible materials

Not known.

## 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 the hazard classes according regulation (EC) 1272/2008

Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.

#### 200 strips PEHANON®

|                             |  |                                 |            |
|-----------------------------|--|---------------------------------|------------|
| Chemical:                   | <i>cellulose paper</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 orl rat :              | > 5000 mg/kg                           |                                 |            |
| LC50 inh rat :              | > 5,800 mg/L/4H                        |                                 |            |

|                 |                         |          |   |
|-----------------|-------------------------|----------|---|
| Chemical:       | <i>indicator dye(s)</i> | CAS No.: | - |
| TSCA Inventory: | all listed, <1%         |          |   |

### 11.2 Other hazards

#### Possible endocrine disrupting effects

no data available

#### Other information

no additional data available

## SECTION 12: Ecological information

### 12.1 Toxicity

Following information is valid for pure substances.

#### 200 strips PEHANON®

|                          |                        |          |           |
|--------------------------|------------------------|----------|-----------|
| Chemical:                | <i>cellulose paper</i> | CAS No.: | 9004-34-6 |
| Water hazard class (DE): | nwg                    |          |           |
| Storage class (VCI):     | 11                     |          |           |

|                      |                         |          |   |
|----------------------|-------------------------|----------|---|
| Chemical:            | <i>indicator dye(s)</i> | CAS No.: | - |
| Storage class (VCI): | 12-13                   |          |   |

### 12.2 Persistence and degradability

not necessary

### 12.3 Bioaccumulative potential

not necessary

### 12.4 Mobility in soil



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not necessary

## 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

## 12.6 Endocrine disrupting properties

no data available

## 12.7 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

none

### 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

Dangerous Substances Protection Act (DE: Chemikaliengesetz - ChemG), Aug 2013, Stand: Okt 2020  
Ordinance on protection against dangerous substances (E: Gefahrstoffverordnung - GefStoffV), Nov 2010, Stand: Mrz 2017  
MN leaflet/instructions for use, also at [www.mn-net.com](http://www.mn-net.com)  
If necessary, observe other country-specific regulations.

### 15.2 Chemical safety assessment

## SECTION 16: Other information

### 16.1 Changes compared to the last version

in preparation

### 16.2 List of H and P phrases

#### 16.2.1 List of relevant H phrases

#### 16.2.2 List of relevant P phrases

### 16.3 Recommended restriction on use

None

### 16.4 Sources of key data

KÜHN, BIRETT leaflets on dangerous working materials  
Directive 1999/92/EG Minimum requirements to improve the safety and health protection of workers at risk from potentially explosive atmospheres  
SUVA .CH, limit values in the air at work 2009, revised on 01/2009  
Regulation 790/2009/EU Adaptation of the CLP Regulation 1272/2008/EU to technical and scientific progress  
Regulation 453/2010/EU REACH – REQUIREMENTS FOR THE PREPARATION OF SAFETY DATA SHEET  
Regulation 487/2013/EU, 4. Adaptation of the CLP regulation to technical and scientific progress  
Regulation 669/2018/EU, 4. Adaptation of the CLP regulation to technical and scientific progress  
Regulation 1480/2018/EU, 4. Adaptation of the CLP regulation to technical and scientific progress



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TRGS 900, German engineering rules on limit values in the air at work, as of 03/2019  
 Regulation 878/2020/EU  
 Regulation 849/2021/EU, 4. Adaptation of the CLP regulation to technical and scientific progress

**Revisions/Updates**

*Reason for revision:* 2014-02 Corrected structure of the sections according to Regulation 453/2010/EU, if necessary  
 2014-04 Adjustment of Regulation 487/2013/EU  
 2016-03 Adjustment of Regulation 1221/2015/EU

2017-11 adaptation of the ECHA registration dossier  
 2022-11 Adjustment of Regulation 878/2020/EU

**16.5 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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**16.6 Legend / Abbreviations**

- acc: according
- ADR: Convention concerning the International Carriage of Dangerous Goods by Road
- Act: acute
- BAT: biological workplace tolerance value
- CAO: Cargo Aircraft Only
- Carc: carcinogen
- CAS: Chemical Abstracts Service
- CLP: Classification, Labelling and Packaging regulation
- CMR: carcinogen, mutagen, reproduction toxic
- Corr: corrosive
- COD: chemical oxygen demand
- CSCL: Chemical Substance Control Law (Jp)
- Dam: damage
- DNEL: Derived No-Effect Level (for workers)
- derm: dermal
- dog: dog
- EC10: Concentration causing a toxic effect in 10% of the test organisms
- EC: European Community
- EC-Nr: Substance number of the EC substance inventory
- EmS: Guide to accident management measures on ships
- EU: European Union
- fish: fish (not specified)
- GHS: Global Harmonized System of Classification and Labeling of Chemicals
- gpg: guinea pig
- ICAO: International Civil Aviation Organization
- ihl: inhaled
- IMDG: International Maritime Dangerous Goods Code
- intrav: intravenous
- ipt: intraperitoneal
- ISHL: Industrial Safety and Health Law (Jp)
- LC50: letale concentration 50%
- LD50: letale dosis 50%
- leuciscus idus: fisch, ide, orfe
- MAK: maximum workplace concentration
- Met: Metall
- mus: mouse
- Muta: mutagen
- NIOSH: National Institute for Occupational Safety and Health (US)
- NRD: Non-rapidly degradable
- onchorhynchus mykiss: fisch, rainbow trout
- orl: oral
- OSHA: Occupational Safety and Health Administration
- PAX: transport on passenger planes allowed
- PBT: persistent, bioaccumulating, toxic substance
- pH: pH value
- pimephales promelas: fisch, fathead minnow



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|          |  |
|----------|--|
| PNEC:    | Predicted No Effect Concentration                                    |
| PROC 15: | Process category 'for laboratory use'                                |
| PRTR:    | Law for PRTR and Promotion of Chemical Management (Jp)               |
| PVC:     | polyvinyl chloride   |
| quail:   | bird, quail  |
| rat:     | rat  |
| rbt:     | rabbit   |
| RD:      | rapidly degradable   |
| RE:      | repeated   |
| REACH:   | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| REF:     | item number, reference number  |
| Reg.No.: | rRegistration number   |
| Repr:    | harmful to reproduction  |
| Resp:    | respiratory  |
| RIP:     | REACH Implementations Projects                                       |
| scu:     | sub cutan  |
| SDS:     | safety data sheet  |
| Sens:    | sensitisation  |
| STEL:    | short term exposure limit  |
| STOT:    | Specific Target Organ Toxicity                                       |
| SVHC:    | Substance of Very High Concern                                       |
| t/a:     | tons per year  |
| TCCA:    | Toxic Chemicals Control Act (S. Korea)                               |
| Tox:     | toxic  |
| TSCA:    | The Toxic Substances Control Act (US)                                |
| TWA:     | time weighted average  |
| TRGS:    | technical regulations (DE)   |
| vPvB:    | very persistent, very bioaccumulating substance                      |

## 16.7 Training advice

Regular safety training. 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.

