# **MACHEREY-NAGEL**



# Safety Data Sheet

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

REF: 90401	PEHANON pH 1,0 - 12,0	Page: 1/8
Printing date: 12.01.2023	Date of issue: 18.07.2022	Version: 2.2.2.2

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

1.1	Product identifier		
	REF	90401	
	Product name	PEHANON pH 1,0 - 12,0	
	REACH Registration number(s): A registration number for the subst the substance or its use is excluded 1 x 200 strips PEHANON	0	
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		
	not described		
1.3	Details of the supplier of the s	afety data sheet	
	Manufactured by:		
	MACHEREY-NAGEL GmbH & Co.	(G	
	Valencienner Str. 11, 52355 Düren,	,	
	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 Inter	<http: sds="" www.mn-net.com=""></http:>	
<b>CECT</b>	ION 2. Heneral identificatio		

## **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®

Signa	l 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

#### 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.



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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: CAS No.:	<i>cellulose paper</i> 9004-34-6
Substance rating: Formula: REACH Reg. No.: EC No.: Concentration: acc. CLP (GHS):	No criteria for classification or naming of chemical not required. (C $_{6}$ H $_{10}$ O $_{5}$ ) n exempt, Annex IV 232-674-9 90 - <100 % The criteria for classification are not fulfilled.
Substance name: CAS No.:	indicator dye(s) -
Substance rating: Concentration: acc. CLP (GHS):	No criteria for classification or naming of chemical not required. $0,1 - <1 \%$ 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	<b>Description of first aid measures</b> 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. ---

## **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. 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.



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5.1.2	Unsuitable extinguishir			
. 1.2	no data available			
5.2	Special hazards arisin None.	ng from the substance or mixture		
5.3	Advice for firefighters	package burns like paper or plastic.		
5.4	Additional information	1		
SEC	ΓΙΟΝ 6: Accidental re	elease measures		
6.1	Personal precautions,	, protective equipment and emergency proc	edures	
6.2	Environmental precau	itions		
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 see	ctions		
SEC	ΓΙΟΝ 7: Handling and	l storage		
7.1	<b>Precautions for safe h</b> Handling in accordance with t	nandling the test instruction, that comes with the product.		
7.2		orage, including any incompatibilities the original packaging . Storage class (German chemical 11 nwg	industry): see chapter 12.1	
7.2.1		<b>k rooms and containers</b> les tightly closed during handling and storage.		
7.3	Specific end use(s) Product for analytical use.			
SEC	FION 8: Exposure co	ntrols /personal protection		
8.1	<b>Control parameters</b>			
	200 strips PEHANON® Chemical: cellulose p TRGS 900 (DE):	Staub 1.25 A / 4 E mg/m³ E/e respirable	CAS No.: 9004-34-6	
	SUVA(CH) MAK value:	3 a ppm TWA 10 (total) / 5 (resp) mg/m³	nit related to a 15-minute period	
		l average to a reference period of 8 hours, [STEL] Short-term exposure lir TWA 15 (total) / 5 (resp) mg/m³		
		TWA 15 (total) / 5 (resp) mg/m <sup>3</sup>	CAS No.: -	
8.2	[TWA] Time-weighted OSHA:	TWA 15 (total) / 5 (resp) mg/m <sup>3</sup>	CAS No.: -	
	[TWA] Time-weighted OSHA: Chemical: <i>indicator o</i> <b>Exposure controls</b> Not necessary.	TWA 15 (total) / 5 (resp) mg/m³	CAS No.: -	
<b>8.2</b> 8.2.1 8.2.2	[TWA] Time-weighted OSHA: Chemical: <i>indicator o</i> <b>Exposure controls</b>	TWA 15 (total) / 5 (resp) mg/m <sup>3</sup>	CAS No.: -	





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	Not necessary.		
8.2.3	Eye / Face Protection Not necessary.		
3.2.4	Skin protection Not necessary.		
3.2.5	Personal hygiene Information not necessary.		
3.2.6	Thermal hazards no data available		
8.3	Limitation and monitoring of Information not necessary.	environmental exposure	
SECTI	ON 9: Physical and chem	ical properties	
<b>1</b>	Information on basic physica	Land chemical properties	

## 9.1 Information on basic physical and chemical properties

200 strips PEHANON® a) State of aggregation: b) Colour: c) Odor: d) Melting point:	solid colored odorless 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
<ol><li>j) Decomposition temperature:</li></ol>	no data available
k) pH value:	no data available
I) 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

# **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 Not known.
10.5	Incompatible materials Not known.

10.6 Hazardous decomposition products





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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®

cellulose paper	CAS No.: 9004-34-6
listed	California Proposition 65 List: not listed
inhalation, skir	n and/or eye contact
Eyes, skin, res	piratory system
irritation eyes,	skin, mucous membrane
not listed	Canada CEPA 1999: DSL yes
not listed, Japa	an PDSCL: not listed
not listed	
not listed	
entory: KE-05339	
> 5000 mg/kg	
> 5,800 mg/L/4	4H
indicator dye(s)	CAS No.: -
	cellulose paper listed inhalation, skir Eyes, skin, res irritation eyes, not listed not listed, Japa not listed not listed rentory: KE-05339 > 5000 mg/kg > 5,800 mg/L/4

Chemical:	indicator dye(s)	
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**

#### Toxicity 12.1

12.1	Toticity				
	Following information is valid for pure substances.				
	200 strips PEHANON®         Chemical:       cellulose paper         Water hazard class (DE):       nwg         Storage class (VCI):       11	CAS No.: 9004-34-6			
	Chemical: <i>indicator dye(s)</i> Storage class (VCI): 12-13	CAS No.: -			
12.2	Persistence and degradability not necessary				
12.3	Bioaccumulative potential not necessary				
12.4	Mobility in soil not necessary				
12.5	<b>Results of PBT and vPvB assessment</b> 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				



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### **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
- 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 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 hazardous materials, 2021

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 Regulation 1272/2008/EU to technical and scientific progress (1st ATP)

Regulation 453/2010/EU, adaptation of the REACH regulation 1907/2006/EG Regulation 487/2013/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (4th ATP) Regulation 1221/2015/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (7th ATP) Regulation 776/2017/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (10th ATP)

Regulation 669/2018/EU, adaptation of Regulation 1272/2008/EC to technical and scientific progressText (11th ATP) Regulation 1480/2018/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (13th ATP) Regulation 521/2019/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (12th ATP) TRGS 900, German rules of technology on limit values in the air at work, as of 03/2019 Regulation 217/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (14th ATP) Regulation 1182/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1907/2006/EG Regulation 1182/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (15th ATP) Regulation 643/2021/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (16th ATP) Regulation 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (16th ATP) Regulation 643/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (16th ATP) Regulation 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (16th ATP)

#### revisions/updates



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

2017-11 adjustment according the ECHA registration dossier 2022-11 adjustment according Regulation 878/2020/EU

### 16.5 Further information

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#### 16.6 Legend / Abbreviations

Legenu / r	
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
	5
CAS:	Chemical Abstracts Service
CLP:	Classification, Labelling and Packaging regulation
CMR:	carcinogen, mutagen, reproduction toxic
Corr:	corrosive
COD:	chemical oxigen 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 spezified)
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:	intraperitonaeal
ISHL:	Industrial Safety and Health Law (Jp)
LC50:	letale concentration 50%
LD50:	letale dosis 50%
leuciscus idus	
MAK:	maximum workplace concentration
Met:	Metall
mus:	mouse
Muta:	mutagen
NIOSH:	National Institute for Occupational Safety and Health (US)
NRD:	Non-rapidly degradable
onchorhynch	us mykiss: fish, 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 p	
PNEC:	Predicted No Effected Concentration
PROC 15:	Process category 'for laboratory use'
PRTR:	Law for PRTR and Promotion of Chemical Management (Jp)
PVC:	polyvinyl chloride



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quail: rat: rbt: RD: RE: REACh: REF: Reg.No.: Resp: REP: SCU: SDS: SENS: STEL: STOT: SVHC: t/a: TCCA: TCCA: TSCA: TSCA: TWA:	bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet sensitisation short term exposure limit Specific Target Organ Toxicity Substance of Very High Concern tons per year Toxic Chemicals Control Act (S. Korea) toxic The Toxic Substances Control Act (US) time weighted average

## 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.



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