CHEREY-NAGE MA



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 |
|---------------------------|---------------------------|------------------|
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SECTION 1: Identification of the substance/mixture and of the company

| 1.1 | Product identifier | |
|-------------|---|---|
| | REF 90401 | |
| | no data available PEHANON pH 1,0 - 1 | |
| | REACH Registration number(s): see SECTION | |
| | A registration number for the substance(s) does not exist becaus the substance or its use is excluded from registration. | se the annual tonnage does not require registration or |
| | 1 x 200 strips PEHANON® | |
| | | |
| 1.2 | Relevant identified uses of the substance or mi | xture and uses advised against |
| | Relevant identified uses | Ŭ |
| | Product for analytical use. | |
| | Exposure Scenario Classification according REACh, RI | P 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 | |
| | Valencienner 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 | http://www.mn-net.com/SDS GmbH + Co KG Call Call Schoemperlenstr. 3-5 Schoemperlenstr. Germany Schoemperlenstr. 5606 0 |
| | Information not necessary. | ent SUPP" COKG |
| | mormation not necessary. | Lieferan cmbH + 3.5 |
| | You find our current versions of SDS in Internet: | <http: +="" co.<br="" gmbh="" sqs3h="" www.mn-net.com="">Call Schoemperlenstr. 3-5 Schoemperlenstr. 3-5 Schoem</http:> |
| | | Can Choempen Genne |
| | | Schoeller, or a schoeller, or |
| SECT | FION 2: Hazard identification | 76103 49721 Serlroth.de |
| SECI | TION 2. Hazaru identification | rheit@can |
| 2.0 | Classification of the complete product according | rg to Regulation (EC) 1272/2008 ^{cherheit@carlroth.de} |
| | | |

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

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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

cellulose naner

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.: | 9004-34-6 |
|---|--|
| Substance rating: Formula: REACH Reg. No.: EC No.: Concentration: acc. CLP (GHS): Substance name: CAS No.: | 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. <i>indicator dye(s)</i> - |
| 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 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 industr | y): see chapter 12.1 |
| | Storage class (VCI): 11 | ., . |
| | Water hazard class (DE): nwq | |

- 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®
 CAS No.: 9004-34-6

 Chemical:
 cellulose paper
 CAS No.: 9004-34-6

 TRGS 900 (DE):
 Staub 1.25 A / 4 E mg/m³
 CAS No.: 9004-34-6

 SUVA(CH) MAK value:
 3 a ppm

 NIOSH:
 TWA 10 (total) / 5 (resp) 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 15 (total) / 5 (resp) mg/m³



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| | Chemical: indicator dye(s) | | CAS No.: - | |
| - | oosure controls necessary. | | | |
| | Respiratory protection Not necessary. | | | |
| | Skin protection / Hand protection / Not necessary. | on | | |
| | Eye / Face Protection Not necessary. | | | |
| | Skin protection Not necessary. | | | |
| | Personal hygiene Information not necessary. | | | |
| | Thermal hazards no data available | | | |
| | nitation and monitoring o mation not necessary. | f environmental exposure | | |
| SECTION | 9: Physical and chen | nical properties | | |
| 9.1 Info | ormation on basic physic | al 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 |
| 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.



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| 10.3 | Possibility of hazar | dous reactions | | |
| 10.4 | Conditions to avoid Not known. | 1 | | |
| 10.5 | Incompatible mater Not known. | ials | | |
| 10.6 | Hazardous decomp | osition products | | |
| | In the original package all period under recommende | parts/all reagents are safety and se ed conditions. | parated stored. Decompositions are | not observed during the expiration |
| SECT | ION 11: Toxicolog | ical information | | |
| 11.1 | | hazard classes according i valid for pure substances. Quant | • • • | oduct are not available. |
| | 200 strips PEHANO Chemical: TSCA Inventory: Exposure Routes: Target Organs: Symptoms: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inv LD50 orl rat : LC50 ihl rat : | cellulose paper listed Califu inhalation, skin and/or eye Eyes, skin, respiratory syst irritation eyes, skin, mucous not listed not listed, Japan PDSCL: n not listed not listed not listed | ornia Proposition 65 List: not listed contact em s membrane Canada CEPA 1999: DSL yes | S No.: 9004-34-6 |
| | Chemical: TSCA Inventory: | indicator dye(s) all listed, <1% | CA | S No.: - |
| 11.2 | Other hazards | | | |
| | Possible endocrine no data available | disrupting effects | | |
| | Other information no additional data av | ailable | | |

I OXICITY Following information is valid for pure substances.

200 strips PEHANON®

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

Chemical: *indicator dye(s)* 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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CAS No .: -

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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 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

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

| - J | |
|-----------------|--|
| 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: CSCL: | chemical oxigen demand |
| | Chemical Substance Control Law (Jp) |
| Dam: | damage |
| DNEL: | Derived No-Effect Level (for workers) dermal |
| derm: | |
| dog: EC10: | dog Concentration causing a toxic effect in 10% of the test organisms |
| EC10. 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 |
| ÍSHL: | Industrial Safety and Health Law (Jp) |
| LC50: | letale concentration 50% |
| LD50: | letale dosis 50% |
| leuciscus idus | s: 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 |
| | is mykiss: fish, rainbow trout |
| orl: | oral |
| OSHA: PAX: | Occupational Safety and Health Administration transport on passenger planes allowed |
| PAA. PBT: | persistent, bioaccumulating, toxic substance |
| рН: | pH value |
| pimephales p | |
| piniepinales pi | |



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| PNEC: PROC 15: | Predicted No Effected Concentration 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.



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