

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

### 1.1 Product identifier

Trade name: **pH-Pufferlösung 2,00**

Synonym: *pH Buffer Solution 2.00*

Article number: *CPY20-A*

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

*No further relevant information available.*

Application of the substance / the mixture *Laboratory chemicals*

### 1.3 Details of the supplier of the safety data sheet

#### Manufacturer/Supplier:

*Endress+Hauser*

*Conducta GmbH+Co. KG*

*Dieselstraße 24*

*D-70839 Gerlingen*

#### Further information obtainable from:

*Phone: +49 (0)7156 209-10117*

*E-Mail: [MSDS.PCC@endress.com](mailto:MSDS.PCC@endress.com)*

### 1.4 Emergency telephone number: *0091-26589391*

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

*The product is not classified, according to the CLP regulation.*

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 *Void*

Hazard pictograms *Void*

Signal word *Void*

Hazard statements *Void*

### 2.3 Other hazards

*The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.*

#### Results of PBT and vPvB assessment

**PBT:** *Not applicable.*

**vPvB:** *Not applicable.*

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Description: *aqueous solution*

Dangerous components: *Void*

Additional information: *For the wording of the listed hazard phrases refer to section 16.*

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General information: *No special measures required.*

After inhalation: *Supply fresh air; consult doctor in case of complaints.*

After skin contact: *Generally the product does not irritate the skin.*

After eye contact: *Rinse opened eye for several minutes under running water.*

After swallowing: *If symptoms persist consult doctor.*

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**4.2 Most important symptoms and effects, both acute and delayed***No further relevant information available.***4.3 Indication of any immediate medical attention and special treatment needed***No further relevant information available.***SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents:** *Use fire extinguishing methods suitable to surrounding conditions.***For safety reasons unsuitable extinguishing agents:** *no further information***5.2 Special hazards arising from the substance or mixture** *No further relevant information available.***5.3 Advice for firefighters** *No further relevant information available.***Protective equipment:** *No special measures required.***\* SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures** *Wear protective clothing.***6.2 Environmental precautions:** *Dilute with plenty of water.***6.3 Methods and material for containment and cleaning up:***Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).***6.4 Reference to other sections***See Section 7 for information on safe handling.**See Section 8 for information on personal protection equipment.**See Section 13 for disposal information.***SECTION 7: Handling and storage****7.1 Precautions for safe handling** *No special measures required.***Information about fire - and explosion protection:** *No special measures required.***7.2 Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:** *No special requirements.***Information about storage in one common storage facility:** *Not required.***Further information about storage conditions:** *None.***Storage class:** 12**7.3 Specific end use(s)** *No further relevant information available.***SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:***The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.***Additional information:** *The lists valid during the making were used as basis.***8.2 Exposure controls****Appropriate engineering controls** *No further data; see section 7.***Individual protection measures, such as personal protective equipment****General protective and hygienic measures:***The usual precautionary measures are to be adhered to when handling chemicals.***Respiratory protection:** *Not required.***Hand protection** *No chemical-protective gloves required.***Material of gloves***The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be*

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*checked prior to the application.***Penetration time of glove material***The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.***Eye/face protection** *Not required.***Body protection:** *Protective work clothing***SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information**

|   |                           |
|---|---------------------------|
| <b>Physical state</b>   | <i>Fluid</i>              |
| <b>Colour:</b>  | <i>Colourless</i>         |
| <b>Odour:</b>   | <i>Odourless</i>          |
| <b>Odour threshold:</b>   | <i>Not determined.</i>    |
| <b>Melting point/freezing point:</b>                            | <i>Undetermined.</i>      |
| <b>Boiling point or initial boiling point and boiling range</b> | <i>100 °C</i>             |
| <b>Flammability</b>   | <i>Not applicable.</i>    |
| <b>Lower and upper explosion limit</b>                          |                           |
| <b>Lower:</b>   | <i>Not determined.</i>    |
| <b>Upper:</b>   | <i>Not determined.</i>    |
| <b>Flash point:</b>   | <i>Not applicable.</i>    |
| <b>Decomposition temperature:</b>                               | <i>Not determined.</i>    |
| <b>pH at 20 °C</b>  | <i>2</i>                  |
| <b>Viscosity:</b>   |                           |
| <b>Kinematic viscosity</b>                                      | <i>Not determined.</i>    |
| <b>Dynamic:</b>   | <i>Not determined.</i>    |
| <b>Solubility</b>   |                           |
| <b>water:</b>   | <i>Fully miscible.</i>    |
| <b>Partition coefficient n-octanol/water (log value)</b>        | <i>Not determined.</i>    |
| <b>Vapour pressure at 20 °C:</b>                                | <i>23 hPa</i>             |
| <b>Density and/or relative density</b>                          |                           |
| <b>Density at 20 °C:</b>  | <i>1 g/cm<sup>3</sup></i> |
| <b>Relative density</b>   | <i>Not determined.</i>    |
| <b>Vapour density</b>   | <i>Not determined.</i>    |

**9.2 Other information**

|  |  |
|--|--|
| <b>Appearance:</b>   |  |
| <b>Form:</b>   | <i>Fluid</i>   |
| <b>Important information on protection of health and environment, and on safety.</b> |  |
| <b>Ignition temperature:</b>   | <i>Product is not selfigniting.</i>                                      |
| <b>Explosive properties:</b>   | <i>Product does not present an explosion hazard.<br/>Not determined.</i> |
| <b>Solvent content:</b>  |  |
| <b>Water:</b>  | <i>99.0 %</i>  |
| <b>Solids content:</b>   | <i>0.0 %</i>   |
| <b>Change in condition</b>   |  |
| <b>Evaporation rate</b>  | <i>Not determined.</i>   |

**Information with regard to physical hazard classes**

|                             |             |
|-----------------------------|-------------|
| <b>Explosives</b>           | <i>Void</i> |
| <b>Flammable gases</b>      | <i>Void</i> |
| <b>Aerosols</b>             | <i>Void</i> |
| <b>Oxidising gases</b>      | <i>Void</i> |
| <b>Gases under pressure</b> | <i>Void</i> |

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|   |      |
|---|------|
| Flammable liquids   | Void |
| Flammable solids  | Void |
| Self-reactive substances and mixtures                                     | Void |
| Pyrophoric liquids  | Void |
| Pyrophoric solids   | Void |
| Self-heating substances and mixtures                                      | Void |
| Substances and mixtures, which emit flammable gases in contact with water | Void |
| Oxidising liquids   | Void |
| Oxidising solids  | Void |
| Organic peroxides   | Void |
| Corrosive to metals   | Void |
| Desensitised explosives   | Void |

## SECTION 10: Stability and reactivity

**10.1 Reactivity** *No further relevant information available.*

**10.2 Chemical stability**

**Thermal decomposition / conditions to be avoided:**

*No decomposition if used according to specifications.*

**10.3 Possibility of hazardous reactions** *No dangerous reactions known.*

**10.4 Conditions to avoid** *No further relevant information available.*

**10.5 Incompatible materials:** *No further relevant information available.*

**10.6 Hazardous decomposition products:** *No dangerous decomposition products known.*

## SECTION 11: Toxicological information

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Acute toxicity** *Based on available data, the classification criteria are not met.*

**Skin corrosion/irritation** *Based on available data, the classification criteria are not met.*

**Serious eye damage/irritation** *Based on available data, the classification criteria are not met.*

**Respiratory or skin sensitisation** *Based on available data, the classification criteria are not met.*

**Germ cell mutagenicity** *Based on available data, the classification criteria are not met.*

**Carcinogenicity** *Based on available data, the classification criteria are not met.*

**Reproductive toxicity** *Based on available data, the classification criteria are not met.*

**STOT-single exposure** *Based on available data, the classification criteria are not met.*

**STOT-repeated exposure** *Based on available data, the classification criteria are not met.*

**Aspiration hazard** *Based on available data, the classification criteria are not met.*

**11.2 Information on other hazards**

**Endocrine disrupting properties**

*None of the ingredients is listed.*

## \* SECTION 12: Ecological information

**12.1 Toxicity**

**Aquatic toxicity:** *No further relevant information available.*

**12.2 Persistence and degradability** *No further relevant information available.*

**12.3 Bioaccumulative potential** *No further relevant information available.*

**12.4 Mobility in soil** *No further relevant information available.*

**12.5 Results of PBT and vPvB assessment**

**PBT:** *Not applicable.*

**vPvB:** *Not applicable.*

**12.6 Endocrine disrupting properties**

*The product does not contain substances with endocrine disrupting properties.*

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**12.7 Other adverse effects****Additional ecological information:****General notes:** *Not hazardous for water.***SECTION 13: Disposal considerations****13.1 Waste treatment methods****Recommendation** *Smaller quantities can be disposed of with household waste.***Uncleaned packaging:****Recommendation:** *Disposal must be made according to official regulations.***Recommended cleansing agents:** *Water, if necessary together with cleansing agents.***SECTION 14: Transport information****14.1 UN number or ID number**ADN, IMDG, IATA *Void***14.2 UN proper shipping name**ADR, ADN, IMDG, IATA *Void***14.3 Transport hazard class(es)**

ADR, ADN, IMDG, IATA

Class *Void***14.4 Packing group**ADR, IMDG, IATA *Void***14.5 Environmental hazards:****Marine pollutant:** *No***14.6 Special precautions for user** *Not applicable.***14.7 Maritime transport in bulk according to IMO instruments** *Not applicable.***Transport/Additional information:** *Not dangerous according to the above specifications.***UN "Model Regulation":** *Void***\* SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Labelling according to Regulation (EC) No 1272/2008** *Void***Hazard pictograms** *Void***Signal word** *Void***Hazard statements** *Void***Directive 2012/18/EU****Named dangerous substances - ANNEX I** *None of the ingredients is listed.***15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.***SECTION 16: Other information***This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.***16.3 Recommended restriction of use****Department issuing SDS:** *PCC-TWR***Contact:** *MSDS.pcc@endress.com***Abbreviations and acronyms:***ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)**IMDG: International Maritime Code for Dangerous Goods**IATA: International Air Transport Association**GHS: Globally Harmonised System of Classification and Labelling of Chemicals**EINECS: European Inventory of Existing Commercial Chemical Substances*

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# Safety data sheet

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according to Regulation (EC) No 1907/2006, Article 31

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*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

**\* Data compared to the previous version altered.**

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