

## \* 1 Identification

**Product identifier**

**Trade name:** **pH-Pufferlösung 9,22**

**Synonym:** *pH Buffer Solution 9.22*

**Article number:** *CPY20-I*

**Application of the substance / the mixture** *Laboratory chemicals*

**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 209-117  
Fax.: +49 (0)7156 209-222  
E-Mail: Service.PCC@endress.com*

**Emergency telephone number:** +1 604 682 5050

## \* 2 Hazard identification

**Classification of the substance or mixture**

*The product is not classified, according to the Globally Harmonised System (GHS).*

**Label elements**

**GHS label elements** *Void*

**Hazard pictograms** *Void*

**Signal word** *Void*


**Hazard statements** *Void*

## \* 3 Composition/Information on ingredients

**Chemical characterisation:** **Mixtures**

**Description:** *Mixture of substances listed below with nonhazardous additions.*

**Dangerous components:**

1330-43-4	boric acid, disodium salt	 <i>Reproductive Toxicity - Category 1B, H360</i>	<i>0.1-1% *</i>
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**Additional information:** *For the wording of the listed hazard phrases refer to section 16.*

## \* 4 First-aid measures

**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:** *Rinse out mouth and then drink plenty of water.*

**Information for doctor:**

**Most important symptoms and effects, both acute and delayed**

*No further relevant information available.*

**Indication of any immediate medical attention and special treatment needed**

*No further relevant information available.*

Trade name: pH-Pufferlösung 9,22

(Contd. of page 1)

## \* 5 Fire-fighting measures

**Extinguishing media**

**Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**For safety reasons unsuitable extinguishing agents:** no further information

**Special hazards arising from the substance or mixture** No further relevant information available.

**Advice for firefighters**

**Protective equipment:** No special measures required.

## \* 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Wear protective clothing.

**Environmental precautions:** Dilute with plenty of water.

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**Reference to other sections**

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## \* 7 Handling and storage

**Handling:**

**Precautions for safe handling** No special measures required.

**Information about fire - and explosion protection:** No special measures required.

**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

**Specific end use(s)** No further relevant information available.

## \* 8 Exposure controls/ Personal protection

**Additional information about design of technical facilities:** No further data; see item 7.

**Control parameters**

**Ingredients with limit values that require monitoring at the workplace:**

**1330-43-4 boric acid, disodium salt**

EL	STEL: 6 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>
EV	STEL: 6 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup> inorganic, inhalable

**Additional information:** The lists valid during the making were used as basis.

**Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

**Respiratory protection:** Not required.

(Contd. on page 3)

**Trade name: pH-Pufferlösung 9,22**

(Contd. of page 2)

**Protection of hands:**

*Protective gloves and protective skin cream  
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 checked prior to the application.*

**Penetration time of glove material**

*The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.*

**Eye protection:** *Not required.*

**Body protection:** *Protective work clothing*

## \* 9 Physical and chemical properties

**Information on basic physical and chemical properties**

**General Information**

**Appearance:**

<b>Form:</b>	<i>Fluid</i>
<b>Colour:</b>	<i>Blue</i>
<b>Odour:</b>	<i>Odourless</i>
<b>Odour threshold:</b>	<i>Not determined.</i>

**Important information on protection of health and environment, and on safety.**

**pH-value at 20 °C:** *9.2*

**Change in condition**

<b>Melting point/freezing point:</b>	<i>Undetermined.</i>
<b>Initial boiling point and boiling range:</b>	<i>100 °C</i>

**Flash point:** *Not applicable.*

**Flammability (solid, gas):** *Not applicable.*

**Decomposition temperature:** *Not determined.*

**Auto-ignition temperature:** *Product is not selfigniting.*

**Explosive properties:** *Product does not present an explosion hazard.  
Not determined.*

**Explosion limits:**

<b>Lower:</b>	<i>Not determined.</i>
<b>Upper:</b>	<i>Not determined.</i>

**Vapour pressure at 20 °C:** *23 hPa*

**Density:** *Not determined.*

**Relative density** *Not determined.*

**Vapour density** *Not determined.*

**Evaporation rate** *Not determined.*

**Solubility in / Miscibility with water:** *Fully miscible.*

**Partition coefficient: n-octanol/water:** *Not determined.*

**Viscosity:**

**Dynamic:** *Not determined.*

**Kinematic:** *Not determined.*

(Contd. on page 4)

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**Trade name: pH-Pufferlösung 9,22**

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(Contd. of page 3)

**Solvent content:****Water:** 99.0 %**Solids content:** 0.0 %**Other information** No further relevant information available.

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## 10 Stability and reactivity

**Reactivity** No further relevant information available.**Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

**Possibility of hazardous reactions** No dangerous reactions known.**Conditions to avoid** No further relevant information available.**Incompatible materials:** No further relevant information available.**Hazardous decomposition products:** No dangerous decomposition products known.

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## \*11 Toxicological information

**Information on toxicological effects****Acute toxicity****Primary irritant effect:****Skin corrosion/irritation** No irritant effect.**Serious eye damage/irritation** No irritating effect.**Respiratory or skin sensitisation** No sensitising effects known.**Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

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## \*12 Ecological information

**Toxicity****Aquatic toxicity:** No further relevant information available.**Persistence and degradability** No further relevant information available.**Behaviour in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:** Not hazardous for water.**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** No further relevant information available.

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## \*13 Disposal considerations

**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.

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(Contd. on page 5)

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**Trade name: pH-Pufferlösung 9,22**

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(Contd. of page 4)

## \*14 Transport information

<b>UN-Number</b> ADR, ADN, IMDG, IATA	Void
<b>UN proper shipping name</b> ADR, ADN, IMDG, IATA	Void
<b>Transport hazard class(es)</b> ADR, ADN, IMDG, IATA	Void
<b>Class</b>	Void
<b>Packing group</b> ADR, IMDG, IATA	Void
<b>Environmental hazards:</b>	
<b>Marine pollutant:</b>	No
<b>Special precautions for user</b>	Not applicable.
<b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
<b>Transport/Additional information:</b>	Not dangerous according to the above specifications.
<b>UN "Model Regulation":</b>	Void

## \*15 Regulatory information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**  
**GHS label elements** Void  
**Hazard pictograms** Void  
**Signal word** Void  
**Hazard statements** Void  
**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## \*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.*

**Department issuing SDS:** PCC-TWRC

**Contact:** *MSDS.pcc@endress.com*

**Date of the latest revision of the safety data sheet** 12/30/2019 / 3

**Abbreviations and acronyms:**

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*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.**