acc. to OSHA HCS

Printing date 06/12/2024



Version 4

People for Process Automation

Reviewed on 06/12/2024

Page 1/7

# **1** Identification

### **Product identifier**

**Trade name:** <u>pH-Pufferlösung 9,22</u> **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 Inc. 4123 E. La Palma Ave., Suite 200 Anaheim CA 92807-1813 USA

Information department: Phone: +49 (0)7156 209-10117 E-Mail: MSDS.PCC @endress.com

Emergency telephone number: 001 18000 222 1222

# 2 Hazard(s) identification

### Classification of the substance or mixture



GHS08 Health hazard

Toxic to Reproduction 1B H360 May damage fertility or the unborn child.

#### Label elements GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms



Signal word Danger Hazard-determining components of labeling: boric acid, disodium salt Hazard statements May damage fertility or the unborn child. Precautionary statements Obtain special instructions before use. Wear protective gloves/protective clothing/eye protection/face protection. IF exposed or concerned: Get medical advice/attention. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4)



(Contd. on page 2)

acc. to OSHA HCS

Printing date 06/12/2024

### Trade name: pH-Pufferlösung 9,22

### HMIS-ratings (scale 0 - 4)

HEALTH $^{\bullet}$ 0Health = \*0FIRE0Fire = 0REACTIVITY0Reactivity = 0

Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

# **3 Composition/information on ingredients**

### **Chemical characterization: Mixtures**

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

**Dangerous components:** 

CAS: 1330-43-4 boric acid, disodium salt	Toxic to Reproduction 1B, H360	0.1-1%		
Additional information: For the wording of the listed hazard phrases refer to section 16.				

Version 4

## **4 First-aid measures**

Description of first aid measures

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.

# **5 Fire-fighting measures**

**Extinguishing media** 

Suitable extinguishing agents:

CO2, extinguishing 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 No further relevant information available. 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). Dispose contaminated material as waste according to section 13. 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. (Contd. on page 3)

Page 2/7

(Contd. of page 1)

- USA -

acc. to OSHA HCS

Printing date 06/12/2024

### Trade name: pH-Pufferlösung 9,22

(Contd. of page 2)

Reviewed on 06/12/2024

Protective Action Criteria for Chemicals		
PAC-1:		
CAS: 1330-43-4 boric acid, disodium salt	6 mg/m³	
PAC-2:		
CAS: 1330-43-4 boric acid, disodium salt	88 mg/m³	
PAC-3:		
CAS: 1330-43-4 boric acid, disodium salt	530 mg/m³	

Version 4

# 7 Handling and storage

Precautions for safe handling Open and handle receptacle with care. Information about protection against explosions and fires: Keep respiratory protective device available.

#### 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: Keep receptacle tightly sealed. Storage class: 6.1 D

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

## 8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see section 7.

#### **Control parameters**

Components with limit values that require monitoring at the workplace:

### CAS: 1330-43-4 boric acid, disodium salt

REL Long-term value: 1 mg/m<sup>3</sup> anhydrous

TLV Short-term value: 6\* mg/m<sup>3</sup> Long-term value: 2\* mg/m3 \*as inhalable fraction, A4

Additional information: The lists that were valid during the creation were used as basis.

#### **Exposure controls** Personal protective equipment:

### General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Store protective clothing separately.

#### Breathing equipment: Not required.

### Protection of hands:

Protective gloves and protective skin cream



Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum. Only use chemical-protective gloves with CE-labeling of category III. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. No chemical-protective gloves required.

### Material of gloves

Nitrile rubber. NBR

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

acc. to OSHA HCS

Printing date 06/12/2024

## Trade name: pH-Pufferlösung 9,22

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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Goggles recommended during refilling.

Body protection: Protective work clothing

# **9** Physical and chemical properties

Information on basic physical and chemical properties			
General Information Appearance:			
Form:	Fluid		
Color: Odor:	Blue Odorless		
Odor threshold:	Not determined.		
pH-value at 20 °C (68 °F):	9.2		
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 100 °C (212 °F)		
Flash point:	Not applicable.		
Flammability (solid, gaseous):	Not applicable.		
Decomposition temperature:	Not determined.		
Ignition temperature:	Product is not selfigniting.		
Danger of explosion:	Product does not present an explosion hazard. Not determined.		
Explosion limits:			
Lower: Upper:	Not determined. Not determined.		
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)		
Density:	Not determined.		
Relative density Vapor density	Not determined. 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.		
Solvent content:			
Water:	99.0 %		
Solids content:	0.0 %		
Other information	No further relevant information available.	(Contd. on page 5)	

(Contd. of page 3)

acc. to OSHA HCS

Printing date 06/12/2024

Trade name: pH-Pufferlösung 9,22

Reviewed on 06/12/2024

(Contd. of page 4)

## 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.

Version 4

# 11 Toxicological information

Information on toxicological effects Acute toxicity: Primary irritant effect: on the skin: No irritant effect. on the eye: No irritating effect. Sensitization: No sensitizing effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations:

# **12 Ecological information**

Toxicity

Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Behavior 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.

### 13 Disposal considerations

Waste treatment methods Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. Recommended cleansing agent: Water, if necessary with cleansing agents.

# 14 Transport information

UN-Number		
DOT, ADN, IMDG, IATA	Void	
UN proper shipping name		
DOT, ADN, IMDG, IATA	Void	
Transport hazard class(es)		
DOT, ADN, IMDG, IATA		
Class	Void	
		(Contd. on page 6)

acc. to OSHA HCS

Printing date 06/12/2024

**Packing group** DOT, IMDG, IATA

Trade name: pH-Pufferlösung 9,22

**Environmental hazards:** 

Special precautions for user

Transport in bulk according to Annex I MARPOL73/78 and the IBC Code UN "Model Regulation":	Il of Not applicable. Void	
*15 Regulatory information		
Safety, health and environmental regul No further relevant information available. Sara	lations/legislation specific for the substance	e or mixture
Section 355 (extremely hazardous sub	stances):	
None of the ingredient is listed.		
Section 313 (Specific toxic chemical lis	stings):	
None of the ingredients is listed.		
TSCA (Toxic Substances Control Act):		
CAS: 7732-18-5 water		ACTIVE
CAS: 1330-43-4 boric acid, disodium sal	t	ACTIVE
CAS: 6440-58-0 1,3-Bis (hydroxymethyl)	-5,5-dimethylimidazolidine-2,4-dione	ACTIVE
CAS: 3844-45-9 Patent blue E133		ACTIVE
Hazardous Air Pollutants		
None of the ingredients is listed.		
Proposition 65		
Chemicals known to cause cancer:		

Version 4

Not applicable.

Not applicable.

Void

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

### **Cancerogenity categories**

**EPA (Environmental Protection Agency)** 

CAS: 1330-43-4 boric acid, disodium salt

**TLV (Threshold Limit Value)** 

CAS: 1330-43-4 boric acid, disodium salt

MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

## **GHS** label elements

The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms



Reviewed on 06/12/2024

(Contd. of page 5)

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A4

Signal word Danger

acc. to OSHA HCS

Printing date 06/12/2024

Version 4

Page 7/7

### Trade name: pH-Pufferlösung 9,22

(Contd. of page 6)

USA -

Hazard-determining components of labeling: boric acid, disodium salt
Hazard statements
May damage fertility or the unborn child.
Precautionary statements
Obtain special instructions before use.
Wear protective gloves/protective clothing/eye protection/face protection.
IF exposed or concerned: Get medical advice/attention.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
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 - TWR Contact: MSDS.pcc@endress.com Date of preparation / last revision 06/12/2024 / 3 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 DOT: US Department of Transportation 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) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Toxic to Reproduction 1B: Reproductive toxicity - Category 1B \* Data compared to the previous version altered.