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according to 1907/2006/EC, Article 31

Endress + Hauser 🔣 People for Process Automation

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

Product identifier

Trade name: pH-Pufferlösung 9,00 Synonym: pH Buffer Solution 9.00

Article number: CPY20-G

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

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

Emergency telephone number: 00971 800 424 (from 7 am to 3 pm, from Sunday to Thursday)

SECTION 2: Hazards 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

Additional information:

Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2Hisothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

Safety data sheet available on request.

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

Description: Mixture of substances listed below with nonhazardous additions.

	Dangerous components:		
		boric acid, disodium salt	≤1%
	EINECS: 215-540-4	🗞 Repr. 1B, H360FD	
		Špecific concentration limit: Repr. 1B; H360: C ≥ 4.5 %	
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CAS: 10043-35-3	boric acid	≤1%
EINECS: 233-139-2		
	Specific concentration limit: Repr. 1B; H360: C ≥ 5.5 %	
CAS: 55965-84-9	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]	≤1%
	and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	
	Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330; 🥎 Skin Corr.	
	1C, H314; Eye Dam. 1, H318; 🚯 Aquatic Acute 1, H400 (M=100); Aquatic	
	Chronic 1, H410 (M=100); 🕦 Skin Sens. 1A, H317	
	Chronic 1, H410 (M=100); (1) Skin Sens. 1A, H317 Specific concentration limits: Skin Corr. 1C; H314: C ≥ 0.6 %	
	Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 %	
	Eye Dam. 1; H318: C ≥ 0.6 %	
	Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 %	
	Skin Sens. 1A; H317: C ≥ 0.0015 %	
SVHC		
CAS: 1330-43-4 b	oric acid, disodium salt	
CAS: 10043-35-3 b	oric acid	

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

SECTION 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. 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.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing agents:

CO2, 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.

SECTION 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.

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SECTION 7: Handling and storage

Precautions for safe handling *No special precautions are necessary if used correctly.*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.

SECTION 8: Exposure controls/personal protection

Control parameters

Ingredients with lir	Ingredients with limit values that require monitoring at the workplace: CAS: 1330-43-4 boric acid, disodium salt		
CAS: 1330-43-4 bo			
REL (USA)	Long-term value: 1 mg/m³ anhydrous		
TLV (USA)	Short-term value: 6* mg/m³ Long-term value: 2* mg/m³ *as inhalable fraction, A4		
WEL (Great Britain)	Long-term value: 1 mg/m³		
CAS: 10043-35-3 b	CAS: 10043-35-3 boric acid		
TLV (USA)	Short-term value: 6* mg/m³ Long-term value: 2* mg/m³ *as inhalable fraction, A4		

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

Exposure controls

Appropriate engineering controls No further data; see item 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures: Wash hands before breaks and at the end of work.

Respiratory protection: Not required.

Hand protection

Protective gloves and protective skin cream

To avoid skin problems reduce the wearing of gloves to the required minimum.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. 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.

Eve/face protection Goggles recommended during refilling

Body protection: Protective work clothing

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SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

General Information

Physical state Fluid
Colour: Colourless
Odour: Odourless
Odour threshold: Not determined.
Melting point/freezing point: Undetermined.

Boiling point or initial boiling point and boiling

range 100 °C

Flammability Not applicable.

Lower and upper explosion limit

Lower:Not determined.Upper:Not determined.Flash point:Not applicable.Decomposition temperature:Not determined.

pH at 20 °C

Viscosity:

Kinematic viscosity

Not determined.

Not determined.

Not determined.

Solubility

water: Fully miscible.

Partition coefficient n-octanol/water (log value) Not determined.

Vapour pressure at 20 °C: 23 hPa

Density and/or relative density

Density at 20 °C: 1.005 g/cm³
Relative density Not determined.
Vapour density Not determined.

Other information Appearance:

Form: Fluid

Important information on protection of health

and environment, and on safety.

Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

Not determined.

Solvent content:

Water: 99.1 % **Solids content:** 0.0 %

Change in condition

Evaporation rateNot determined.

Information with regard to physical hazard

classes

Void **Explosives** Flammable gases Void Aerosols Void Oxidising gases Void Gases under pressure Void Flammable liquids Void Flammable solids Void Self-reactive substances and mixtures Void **Pyrophoric liquids** Void **Pyrophoric solids** Void Self-heating substances and mixtures Void

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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

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.

SECTION 11: Toxicological information

Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity

LD/LC50 values relevant for classification:

CAS: 10043-35-3 boric acid

Oral LD50 2,660 mg/kg (rat)

Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

Other adverse effects

Additional ecological information: General notes: Not hazardous for water.

SECTION 13: Disposal considerations

Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

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Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

UN number or ID number

ADN, IMDG, IATA Void

UN proper shipping name

ADR, ADN, IMDG, IATA Void

Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class

Packing group

ADR, IMDG, IATA Void

Environmental hazards:Special precautions for user
Not applicable.
Not applicable.

Maritime transport in bulk according to IMO

instruments Not applicable.

UN "Model Regulation": Void

SECTION 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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

National regulations:

Other regulations, limitations and prohibitive regulations

Substances of ve	Substances of very high concern (SVHC) according to REACH, Article 57		
CAS: 1330-43-4	boric acid, disodium salt		
CAS: 10043-35-3	boric acid		

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.

Department issuing SDS: PCC-TWR **Contact:** MSDS.pcc @endress.com **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning

the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Acute Tox. 3: Acute toxicity – Category 3

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Acute Tox. 2: Acute toxicity - Category 2

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1A: Skin sensitisation – Category 1A

Repr. 1B: Reproductive toxicity – Category 1B

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

UAE —

^{*} Data compared to the previous version altered.