GEBRÜDER HEYL Analysentechnik GmbH & Co. KG Wasser ist unser Element

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 17.01.2019

Version number 6

Revision: 17.01.2019

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SECTION 1: Identification of the substance/mixtu undertaking	re and of the company/
· 1.1 Product identifier	
 Trade name: Pufferlösung pH 10,0 	
 1.2 Relevant identified uses of the substance or mixture and us No further relevant information available. Application of the substance / the preparation: Reagent for anal 	-
 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: Gebrüder Heyl Analysentechnik GmbH & Co. KG Orleansstraße 75 b D-31135 Hildesheim Further information obtainable from: product safety department 1.4 Emergency telephone number: Giftinformationszentrum Nord Phone +49 (0) 551 19240 	Phone +49 (0) 5121 2893390 Fax +49 (0) 5121 2893367 E-Mail info@heyl.de Internet www.heyl.de
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 Additional information: EUH210 Safety data sheet available on request. Labelling of packages where the contents do not exceed 125 m Hazard pictograms Void Signal word Void Hazard statements Void Signal word Void Hazard statements Void PBT: Not applicable. vPvB: Not applicable. 	1
SECTION 3: Composition/information on ingredients	
• 3.2 Mixtures • Description: Mixture of substances listed below with nonhazardous additions a 1272/2008. Water CAS 7732-18-5	ccording to Regulation (EC) No
Dangerous components:	
CAS: 13840-56-7 orthoboric acid, sodium salt EINECS: 237-560-2 Index number: 005-011-00-4	≥ 0.3 - < 0.5%
• SVHC 13840-56-7 orthoboric acid, sodium salt	
CAS: 13840-56-7 orthoboric acid, sodium salt	
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· 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: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. • After swallowing:

A person vomiting while laying on their back should be turned onto their side. Rinse out mouth and then drink plenty of water. Seek medical treatment.

• **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.

- · 5.2 Special hazards arising from the substance or mixture
- No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Wear personal protection equipment.

· 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the material collected according to regulations. Clean the affected area carefully; suitable cleaners are: Warm water
 6.4 Deference to other eactions

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: Store only in the original receptacle.

· Information about storage in one common storage facility: Do not store together with textiles.

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(Contd. of page 2) Further information about storage conditions: Keep container tightly sealed. Protect from heat and direct sunlight. Store receptacle in a well ventilated area. · Recommended storage temperature: 15 - 25 °C · 7.3 Specific end use(s) No further relevant information available. SECTION 8: Exposure controls/personal protection · Additional information about design of technical facilities: No further data; see item 7. · 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 · Personal protective equipment: · General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Do not eat, drink, smoke or sniff while working. Respiratory protection: Use suitable respiratory protective device when aerosol or mist is formed. Filter: Type P2 · Protection of hands: Wear gloves according to EN 374. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Check protective gloves prior to each use for their proper condition. Preventive skin protection by use of skin-protecting agents is recommended. After use of gloves apply skin-cleaning agents and skin cosmetics. 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. · 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. · For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR Recommended thickness of the material: $\geq 0.12 \text{ mm}$ Value for the permeation: Level = 6 (> 480 min) As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR Recommended thickness of the material: ≥ 0.12 mm Value for the permeation: Level = 6 (> 480 min) · Eye protection: Goggles according to EN 166 recommended during refilling · Body protection: Protective work clothing

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9.1 Information on basic physical and o	chemical properties
General Information	
Appearance:	
Form:	Fluid
Colour: Odour:	Colourless Odourless
Odour threshold:	Not determined.
pH-value at 20 °C:	10.0
Change in condition	
Melting point/freezing point:	-6 °C
Initial boiling point and boiling range	: 110 °C
Flash point:	Undetermined.
Flammability (solid, gas):	Not applicable.
Ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not determined.
Density at 20 °C:	1 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.

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 and stored 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.

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SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- · 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.
- \cdot CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · 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.

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.
- · Additional ecological information:
- · General notes: Not hazardous for water.
- · 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

- · Recommendation Disposal must be made according to official regulations.
- · Uncleaned packaging:
- · Recommendation:
- Packagings that may not be cleansed are to be disposed of in the same manner as the product. Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport informat	ion	
· 14.1 UN-Number · ADR, ADN, IMDG, IATA	Void	
	VOIU	
 · 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	
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 14.5 Environmental hazards: Marine pollutant: 	No
 14.6 Special precautions for user 	Not applicable.
 14.7 Transport in bulk according to Ann of Marpol and the IBC Code 	nex II 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
- · 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 very high concern (SVHC) according to REACH, Article 57
- CAS: 13840-56-7 orthoboric acid, sodium salt
- 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.

- **Relevant phrases** H360FD May damage fertility. May damage the unborn child.
- · Department issuing SDS: product safety department.
- · Contact:
- Abbreviations and acronyms:
 ADR: Accord européen sur le transport 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
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 PBT: Persistent, Bioaccumulative and Toxic
 SVHC: Substances of Very High Concern
 - vPvB: very Persistent and very Bioaccumulative
 - Repr. 1B: Reproductive toxicity Category 1B
- * Data compared to the previous version altered.