Safety Data Sheet acc. to OSHA HCS

Printing date 06/27/2023

Reviewed on 03/08/2019

#### **1** Identification

\*Product identifier \*Trade name: <u>BUFFER SOLUTION pH 9.20 ± 0.01 @ 20°C</u>

\*Article number: 10920 \*Application of the substance / the mixture Laboratory chemicals

\*Details of the supplier of the safety data sheet

\*Manufacturer/Supplier: Reagecon Diagnostics Ltd. Shannon Free Zone, Shannon, Co. Clare, Ireland. Tel +353 61 472622 Fax +353 61 472642

\*Information department: sds@reagecon.ie

\*Emergency telephone number: National Poisons Information Centre: +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week) Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC For Ireland call +(353)-19014670 For Outside Ireland call +1 703-741-5970 / 1-800-424-9300 CCN849800

#### 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. Do not handle until all safety precautions have been read and understood. 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.

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≥0.1-≤2.5%

50-100%

<1%

\*Classification system: \*NFPA ratings (scale 0-4)



\*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

\*Non- Hazardous Components

CAS: 7732-18-5 PURIFIED WATER

CAS: 7647-01-0 hydrochloric acid 37%

#### 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: If symptoms persist consult doctor.

\*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: Use fire fighting measures that suit the environment.

\*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 equipment. Keep unprotected persons away.

\*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.

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	or disposal information. <b>A Criteria for Chemicals</b>	(Contd. of page 2)		
*PAC-1:				
CAS: 1330-43-4	boric acid, disodium salt	$6 mg/m^3$		
*PAC-2:				
CAS: 1330-43-4	boric acid, disodium salt	88 mg/m <sup>3</sup>		
*PAC-3:				
CAS: 1330-43-4	boric acid, disodium salt	530 mg/m <sup>3</sup>		
CAS: 1330-43-4 * <b>PAC-2:</b> CAS: 1330-43-4 * <b>PAC-3:</b>	boric acid, disodium salt	88 mg/m <sup>3</sup>		

## 7 Handling and storage

\*Handling:

\*Precautions for safe handling

Keep receptacles tightly sealed.

No special precautions are necessary if used correctly.

\*Information about protection against explosions and fires: 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.

\*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 item 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/m<sup>3</sup> \*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: Wash hands before breaks and at the end of work.

\*Breathing equipment: Suitable respiratory protective device recommended.

\*Protection of hands:

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

\*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.

Nitrile rubber, NBR

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#### \*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:



Goggles recommended during refilling.

# 9 Physical and chemical properties

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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.

#### **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:

Auditional loxicological informat

\*Carcinogenic categories

\*IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

\*NTP (National Toxicology Program)

None of the ingredients is listed.

\*OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

#### **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.

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## Reagecon

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\*Recommended cleansing agent: Water, if necessary with cleansing agents.

Transport information	
UN-Number DOT, ADR, ADN, IMDG, IATA	Void
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Void
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA Class	Void
Packing group DOT, ADR, IMDG, IATA	Void
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
UN "Model Regulation":	Void

# **15 Regulatory information**

\*Safety, health and environmental regulations/legislation specific for the substance or mixture

*SARA Section 355 (extremely hazardous substances)	
None of the ingredients is listed.	
*SARA Section 313 (specific toxic chemical listings)	
None of the ingredients is listed.	
*TSCA (Toxic Substances Control Act)	
CAS: 7732-18-5 PURIFIED WATER	ACTIVE
CAS: 1330-43-4 boric acid, disodium salt	ACTIVE
*Hazardous Air Pollutants	
None of the ingredients is listed.	
*Prop 65 - Chemicals known to cause cancer	
None of the ingredients is listed.	
*Cancerogenity categories	
*EPA (Environmental Protection Agency)	
CAS: 1330-43-4 boric acid, disodium salt	I (oral)
*TLV (Threshold Limit Value)	
CAS: 1330-43-4 boric acid, disodium salt	A4
*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.	
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(Contd. of page 6) \*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. Do not handle until all safety precautions have been read and understood. 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. \*National regulations: \*Water hazard class: Generally not hazardous for water. \*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: Health and Safety \*Contact: sds@reagecon.ie \*Date of preparation / last revision 06/27/2023 \*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 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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

Toxic to Reproduction 1B: Reproductive toxicity – Category 1B